

No. RW/NH-34059/1/2004-S&amp;R(B) Pt-II (4)

Dated, the 28th March 2007

To

The Chairman, National Highway Authority of India; The Director General (Border Roads); All Chief Engineers of States/UTs/PWDs (dealing with National Highways and other Centrally sponsored schemes)

**Subject :** Empanelment of Supplier/Manufacture for Expansion Joints-Renewal of approval for Local Manufacturing of Edge Beam of Single Strip Seal Expansion of Expansion Joints in respect of M/s Z-Tech (India) Pvt. Ltd., New Delhi

**Ref:** (i) This Ministry's letter No. RW/NH-34059/1/96-S&R dated 30.11.2000 its corrigendum dated 25.01.01.  
(ii) This Ministry's letter No. RW/NH-34059/2/2001/S&R(B) dated 14.12.01.  
(iii) This Ministry's letter No. RW/NH/34059(1)/1/2003/S&R(B) dated 28.06.04

Ministry has empanelled M/s Z-Tech (India) Pvt. Ltd. New Delhi vide letter under ref (ii) above for supply of expansion joints in collaboration with their foreign principals M/s Z-Tech Inc, Canada respectively. Subsequently Ministry vide letter under ref. (iii) above permitted M/s Z-Tech (India) Pvt. Ltd., New Delhi for local manufacturing of the edge beam for single strip seal expansion joint {having the sectional profile as indicated in page 1/5 of Annex-I of Ministry's letter under reference (ii) above (copies enclosed)}.

1.2 Now M/s Z-Tech (India) Pvt. Ltd. New Delhi has applied for renewal for local manufacturing of edge beam. The application for the renewal for local manufacturing of the edge beam for single strip seal expansion joint has been examined as per Revised Interim Specifications (RIS) issued vide Ministry's letters under reference (i). Accordingly, the local manufacturing of the edge beam for single strip seal expansion joint is being approved subject to the following conditions.

1.3 The sectional profile of the edge shall be as indicated in page 1/5 of Annex-I of Ministry's letter under reference (ii) above (copy enclosed) some of the details of the edge beam are as follows: height of the section is 80 mm, width of flange is 48 mm, thickness of flange is 12 mm, thickness of web is 12 mm, and thickness of lip is 6 mm.

1.4 The finished joints including anchorage shall conform to the specifications given in the Ministry's RIS issued vide letters under reference (i) above.

1.5 The neoprene sealing element shall continue to be imported from their foreign principal, M/s Z-Tech Inc, Canada. The firm shall maintain proper record for procurement and supply of sealing element and shall produce the same to the clients on their demand for verification.

1.6 The firm shall conduct all the tests as specified in the relevant clauses of RIS. In addition to that, following tests shall also be carried out by the firm:-

- a) Debris expulsion test
- b) Dye powder penetration test for all critical welds
- c) Random checking of paint film thickness by elachometer
- d) Dimensional check of the finished joints as per approved drawing.

1.7 Standard procedure of sampling shall be adopted for all the above tests. The client before procurement/ installation may ensure and satisfy themselves that the firm has conducted all the tests on expansion joints as specified above and the joints fulfill the acceptance criteria as per para 6 on page 11 of RIS.

1.8 While arranging the supply of the expansion joints with these locally manufactured edge beams, a warranty of trouble free performance for atleast ten years should be obtained from M/s Z-Tech (India) Pvt. Ltd.,

New Delhi. The joints showing any defect during this period shall be got repaired/replaced by M/s Z-Tech (India) Pvt Ltd., New Delhi at their own cost, failing which, they may be debarred from the list of the empanelled suppliers.

1.9 M/s Z-Tech (India) Pvt. Ltd., New Delhi shall maintain records for all expansion joints supplied with locally manufactured edge beams. Besides the firms shall get their joints tested once in a year for all the tests including dynamic test through an Independent body like CRRRI, IITs or similar organizations or laboratory accredited by NABL. An annual report in this regard containing the installation and performance along with the testing of the joints shall be submitted to the Ministry in the month of January for the every preceding year.

2. This approval shall be valid up to 31.3.2009 subject to the condition that there will be no structural change in the collaboration of the firms with their respective foreign principal. The firm is requested to submit the supporting document showing collaboration with their respective foreign principal upto the period for which the approval is granted. Any change in collaboration may be intimated to the Ministry for further necessary action. For further renewal, the firm may request along with the submission of following documents three months prior to the expiry date of this approval:

- i) Test report for the material being used for edge beam from a laboratory having accreditation from National Accreditation Board for Testing and Calibration Laboratories (NABL) or a CSIR/ISO recognized laboratory, satisfying the requirements as per Ministry's/IRC Specifications.
- ii) Details of joints supplied with locally manufactured edge beam and their performance report.

3. This letter supersedes the Ministry's letters, No. RW/NH/34059(1)/2003/S&R(B) dated 28.06.04 and RW/NH-34059/1/2004-S&R(B) dated 05.07.2006.

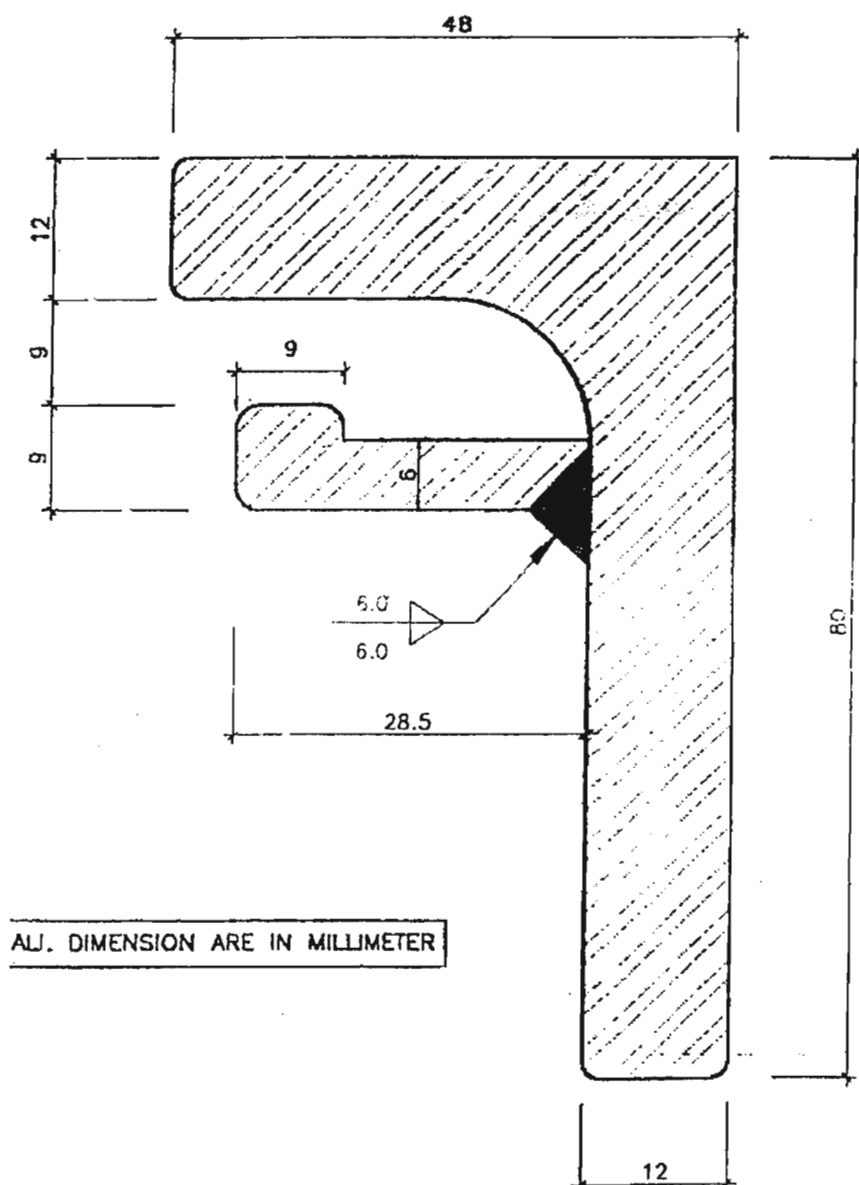
4. The Ministry reserves the right to revoke the permission at any time, in case of any deficiency due to non adherence of the specifications given in the RIS as well as Ministry's circulars/guidelines issued from time to time. This stands applicable also, in case, if any defect in the performance/quality of the joints is noticed.

5. The contents of the circular may please be brought to the notice of all the officers in your department concerned with bridges on National Highways and other centrally sponsored schemes.

*(Enclosure to Ministry of Shipping, Road Transport & Highways, (Department of Road Transport & Highways), letter No. RW/NH-34059/2/2001-S&R(B) dated 14.12.2001)*

## ANNEXURE

# Z-TECH/TECHSTAR STRIP SEAL BRIDGE EXPANSION JOINTS



ALL DIMENSIONS ARE IN MILLIMETER

## EDGE BEAM (A 3.500) FOR SINGLE STRIP SEAL JOINT

Material quality:  
Steel Grade: ASTM A-36 or A-588  
Area: 1607 Sq mm

Name of supplier  
Z-TECH (India) Pvt. Ltd.