



GOVERNMENT OF INDIA  
MINISTRY OF ROAD TRANSPORT & HIGHWAYS

Transport Bhawan,  
1, Parliament Street,  
New Delhi – 110001

No. RW/NH-35075/1/2010- S&R(R)

Dated the 7 June, 2013

To,

The Promoter/ Manufacturer (as per list)  
of emerging new materials

**Subject: Use of emerging new materials and techniques in construction of National Highways**

Indian Roads Congress under the aegis of Highway Research Board is accrediting new materials/techniques/products from time to time. However, these accredited materials/techniques are not being used on the road and bridge projects.

You will appreciate that in order to facilitate adoption of the new materials/techniques, these needs to be tested under Indian conditions, traffic, rainfall, drainage, soil conditions etc. which are obviously different from those prevailing in countries abroad.

Ministry has decided to use these new materials/techniques in NH projects on experimental basis. It is proposed to adopt two to three innovative/new materials on the main carriageway in each State in widening / strengthening projects. Such sections should, however, be laid in the middle of these reaches for ease of performance assessment. Accordingly, as a confidence building measure, provision for usage of the accredited new materials/techniques, on trial basis, on at least one km stretch on the main carriageway shall be made at the time of preparation of the estimates. Keeping in view the viability in award, implementation, better performance appraisal and facilitating use of appropriate technology, longer stretches could be considered depending upon the availability of the new material and the related technology appropriate in a particular region.

The promoter of the accredited material shall be required to bear the extra cost involved in the proposal. They shall also have to deploy a technical Expert to supervise the implementation work using the innovative/new material, so that the execution is carried out as per the specifications and terms of accreditation. The payment to the promoter of the accredited material shall be made at the end of the Defect Liability Period (DLP) subject to the successful performance of the material, to the satisfaction of the implementing agency.

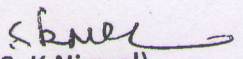
To achieve the above objective following details in respect of your accredited material/ technique is required to be submitted to the Ministry :

- a) Name of the New material/ Technology/ Equipment/ Product
- b) Date of accreditation by IRC
- c) Intended use and benefit
- d) Location and availability in India and abroad
- e) Previous Evaluation Report from a reputed institute of India/abroad

- f) Projects where used in India or abroad along with client's report
- g) Suitability (Why and where it should be adopted)
- h) Laboratory Test Reports from Central Road Research Institute (CRRI) / Government approved laboratories/ Indian Institute of Technologies (IITs)
- i) Cost Comparison under Indian Conditions as compared to conventional material
- j) Whether firm is willing to share the entire/ extra cost over conventional construction including cost of evaluation for using New material/ Technology on highway project?
- k) Whether any specific equipment/ machine is required for application of new material?

The above details may be furnished to the Ministry within 2 weeks. You may also like to make a presentation at a mutually convenient date in this regard.

Yours faithfully,

  
(S. K. Nirmal)

Superintending Engineer (Roads) (S, R & T)  
For Director General (RD) & Special Secretary

Copy to:

1. All CEs, MoRT&H – with a request to indicate suitable stretches for experiment stating challenging problem, if any.
2. Secretary General, IRC – To kindly furnish his input on the subject.

Copy for information to:

1. Sr. PPS to Secretary (RT&H)
2. PPS to DG(RD)&SS
3. ADG(VLP)/ADG(CL)/ADG(SND)