



**GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS**

Indian Academy of Highway Engineers,
A-5, Institutional Area, Sector-62, NH-24 Bypass,
Noida-201301

F. No. RW/NH-35075/01/2010-S&R(R)(Pt.)

Date : 31th December, 2015

OFFICE MEMORANDUM

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

In continuation of the S,R&T(R) zone's circular No. RW/NH-35075/01/2010-S&R(R) dated 07-06-2013 on the subject mentioned above, the Coordination Committee of the Ministry on new technology/ new materials has considered a new technology/ material product 'GUJCON-CRF Nylon 6 Fibre' for use on National Highways on experimental basis on the basis of a presentation on the product on 29-12-2015 and 30-12-2015.

2. The representatives of the firm presented their product GUJCON-CRF Nylon 6 Fibre elaborating upon its merits and de-merits and submitting the Laboratory test reports on the product from Central Roads Research Institute (CRRI). Among the merits of the product are reduced drying shrinkage (~13%), increased flexural strength and higher abrasion resistance (~24%) as per the CRRI report. However, as per the CRRI report there is slight reduction in compressive strength and elastic modulus of the concrete pavement on application of the product.

3. Accordingly, considering the merits and de-merits as per para 2 given above, all project zones are requested to utilize the material depending on its suitability in respective states on trial basis. The performance feedback on this material may be forwarded to this zone after its use.

Amiyanshu
(Amiyanshu)

Assistant Executive Engineer (S, R&T) (Roads)
for Director General (Road Development) & SS

To:

1. CE (P-1)/ CE (P-2)/ CE (P-3) /CE (P-4)/ CE (P-5)/ CE (P-6)/ CE (P-7)/ CE (P-8) /CE(NER)/
CE (LWE) CE (NHDP-IV)/CE(EAP)/CE(S&R(B))

2. NIC – for uploading on the Ministry's website under "Roads and Highways→ Circulars/
Notices on National Highways" and "What's New"

Copy for kind information to:

1. Sr. PPS to Secretary (RT&H)
2. PPS to DG(RD) & SS