



Website-<http://pwd.uk.gov.in>

कार्यालय प्रमुख अभियन्ता एवं विभागाध्यक्ष,
लोक निर्माण विभाग, उत्तराखण्ड

सभी को मेल द्वारा



E-Mail - eicpwduk@nic.in

पत्रांक 1484/09 (सि.सं. 1)

देहरादून, दिनांक 2 नवम्बर, 2017

सेवा में,

1. समस्त मुख्य अभियन्ता,
लोक निर्माण विभाग,
उत्तराखण्ड।
2. समस्त अधीक्षण अभियन्ता,
लोक निर्माण विभाग,
उत्तराखण्ड।

विषय:- **To promote usage of environment friendly "Green" technologies and new materials, techniques, machinery, technology, etc accredited by IRC in Road Sector.**

उपर्युक्त विषयक में जैसा कि आप अवगत है कि वर्तमान परिवेश में नये एवं Innovative Technic विषय पर विशेष बल दिया जा रहा है। Indian Road Congress का हाईवे रिसर्च बोर्ड द्वारा इस सम्बन्ध में कुछ Materials को दो वर्ष के लिए Accredited किया है, जो कि दिनांक 30.09.2017 से लागू है। हाईवे रिसर्च बोर्ड Indian Road Congress का मत है कि निर्माण कार्यों में, विशेषकर एम0डी0आर0, स्टेट हाईवे, Green technologies तथा I.R.C. Accredited नये Materials Machinery आदि का इस्तेमाल किये जाने हेतु फील्ड स्तर के तकनीकी अधिकारियों को प्रोत्साहित किया जाए तथा इससे प्राप्त परिणाम का समय-समय पर परीक्षण कर इण्डियन रोड कांग्रेस को अवगत कराया जाय।

प्रत्येक वर्ष कुल सड़कों की लम्बाई के कम से कम दो प्रतिशत लम्बाई में यह कार्य कराया जाए। इस सम्बन्ध में आई0आर0सी0 Accredited New Materials/तकनीकी इक्यूपमेन्ट/प्रोडक्ट्स, जो कि दिनांक 30.09.2017 से लागू किया गया है, की सूची संलग्न कर इस निर्देश के साथ प्रेषित है, कि इसको ट्रायल बेसिस पर अवश्य कराया जाए तथा इसके परिणाम से इस कार्यालय को अवगत करायें।

संलग्न-यथोपरि।

(एच0के0 उप्रेती)

प्रमुख अभियन्ता

प्रतिलिपि निम्नलिखित को संलग्नक की प्रति सहित सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित :-

1. मुख्य अभियन्ता स्तर-। (मुख्यालय), विभागाध्यक्ष कार्यालय।
2. वरिष्ठ स्टाफ आफिसर-।/।।, विभागाध्यक्ष कार्यालय।
3. समस्त अधिशासी अभियन्ता, लोक निर्माण विभाग, उत्तराखण्ड।
4. समस्त तकनीकी अधिकारी, विभागाध्यक्ष कार्यालय।

संलग्न-यथोपरि।

For Uploading
Date
8/11/17

प्रमुख अभियन्ता
लोक निर्माण विभाग
1.11.17



भारतीय सड़क कांग्रेस
कामा कोटि मार्ग, सेक्टर-6
आर.के. पुरम, नई दिल्ली-110022 (भारत)
INDIAN ROADS CONGRESS
Kama Koti Marg, Sector-6
R.K. Puram, New Delhi-110 022 (INDIA)
Tel.: 011-26105160, 26185273, 26171548, 26185315
E-mail: secygen.irc@gov.in

No. IRC-24(8)/2017

Dated 23.10.2017

THE ADDITIONAL CHIEF SECRETARY,
P.W.D, UTTARAKHAND,
SECRETARIAT, 4 SUBHASH ROAD,
DEHRADUN - 248 001

Subject: To promote usage of environment friendly "Green" technologies and new materials, techniques, machinery, technology, etc accredited by IRC in Road Sector

Sir,

As you are aware, the Committee for Accreditation of New Materials and Techniques is working under the aegis of Highway Research Board of Indian Roads Congress (IRC) to accredit patented or new materials/techniques, developed in India/abroad and evaluated as per recognized National/International Specifications for a period of 2 years on trial basis. A list of accredited new materials/techniques/ equipment/products (valid as on 30th September, 2017) is enclosed herewith for ready reference.

The Highway Research Board (HRB) of IRC in its 72nd meeting held on 15th July, 2017 at Udaipur (Rajasthan) has raised concerns about actual usage of IRC accredited materials/techniques in the field and support from Govt. Road Construction Departments / Organizations. As decided by the HRB, it is requested to

- (i) use green technologies and IRC accredited new materials, techniques, machinery, technology, etc on State Highways & MDR and also encourage/reward the officers/engineers who come up with success/failure studies of their work project. The same may also be submitted to IRC;
- (ii) issue directives to the PIUs for mandatory usage of "Green" technologies and new Materials/ Techniques/ technology, etc accredited by IRC or any other well established technology in the projects in at least for 2% road length of total yearly plan;
- (iii) include the usage of accredited material in the Concession Contract Agreement in the Schedule-B.
- (iv) provide IRC the feedback/performance on usage of new technology, non-conventional methods, etc.

You are requested to kindly consider the above given suggestions for initiating necessary requisite actions in your organization/department.

An early action from your side is solicited.

Yours faithfully,
Sd/-

(R. V. Patil)

Dy. Director (Tech.)

Encl. As above

✓ Copy to: SHRI H.K. UPRETI, ENGINEER-IN-CHIEF, PUBLIC WORKS DEPARTMENT, 142, LANE-3, VANASTHALI, BALLUPUR CHOWK, DEHRADUN-248001

R. V. Patil

(R. V. Patil)

Dy. Director (Tech.)

Please Note : All correspondence should be addressed to the Secretary General by designation only

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LIST OF IRC ACCREDITED NEW MATERIALS/ TECHNIQUES/EQUIPMENT/PRODUCTS (valid as on 30th Sept, 2017)

The Committee for Accreditation of New Materials and Techniques formed under the aegis of Highway Research Board of Indian Roads Congress (IRC) gives accreditation to patented or new materials / technologies / equipment, developed in India/ abroad. These new materials are evaluated as per recognized National / International Specifications. The Committee has so far accredited (valid as on 30th Sept, 2017) the following new materials/techniques for being used on trial basis:

S. No.	Name of the New Material/ Technology/ Equipment/Product	Usage
1	SoilCrete	Technology for design and construction of pavements
2	ZeoCrete	Technology for design and construction of pavements
3	Hyperplas Polyester	As waterproofing layer in bridges decks
4	ShaliSeal RSTC	Tar base emulsion for enhancing road life by water ingress
5	STRESEAL	Stress observing membrane interlayer system for use in flexible pavements
6	Processed Steel Slag	Alternate Aggregate for Flexible Pavements
7	Shalipatch EC	For crack repairing concrete and bituminous roads
8	APP Double Layer Membrane Bituseal DR Bridge Deck	For flyover waterproofing and replacement of mastic wearing coat
9	GID Pavement Markers	Safety device used on roads
10	Super Seal (PS)	Used for sealing of expansion joints
11	Super Shield Bridgeprotek	Used for sealing of expansion joints
12	Cold Plastic Road Marking Paint-PERMARK 2K	Road marking material
13	Terra firma Soil Stabilizer	A cementitious polymer resin based compound (Soil Stabilizer).
14	Median Marker	A retro reflective marker offers better visibility and enhances illumination thereby curbing road accidents frequency
15	Reflective Delineator	A retro reflective device offers better visibility and enhances illumination thereby curbing road accidents frequency
16	Aluminum Backed Flexible Prismatic Sheeting	A retro reflective sheeting offers better visibility and enhances illumination thereby curbing road accidents frequency
17	Raised Pavement Marker with Twin Molded Shank	A retro reflective marker offers better visibility and enhances illumination thereby curbing road accidents frequency
18	Solar Road Stud	A solar based stud offers better visibility and enhances illumination thereby curbing road accidents frequency
19	Flexible Median Marker	A retro reflective marker offers better visibility and enhances illumination thereby curbing road accidents frequency
20	Solar Raised Pavement Marker	A solar based marker offers better visibility and enhances illumination thereby curbing road accidents frequency
21	Twin Molded Shank Raised Pavement Marker	A twin molded shank marker offers better visibility and enhances illumination thereby curbing road accidents frequency
22	Terrazyme	Soil Stabilizing material used in construction of roads
23	Envirotac	A non hazardous, environmental friendly acrylic -based co-polymer soil stabilizer
24	EcogreenProbase Road System	Soil Stabilized Pavement System Technology
25	Dr. Fixit Concrete Guard WB	Anti-carbonation protective substance for concrete structures
26	Dr. Fixit Torchshield AP 3160	Bituminous water-proofing membrane for concrete structures
27	Dr. Fixit Torchshield AP 4160	Bituminous water-proofing membrane for concrete structures
28	Portadeck	Heavy Duty Composite Access Mats and Floors/Working Platforms
29	Glass Fibre Reinforced Polymer Composite Rebars	Corrosion resistant high tensile strength that of steel, electrically, thermally non-conductive
30	Evocrete Modifier – Hardening Accelerator for Modified Rigid Pavements	Bionic binder for rigid concrete modification

31	FORTA FI	High tensile strength synthetic fibre reinforcement for asphalt pavement / runway
32	Metalite Hitex Group Thermoplastic High Friction Surfacing Material	Admixture for mixing in bituminous wearing courses to provide skid resistance surface
33	Metalite Hitex Group Linear Crack and Joint Repair System	Admixture for mixing in bituminous wearing courses to provide skid resistance surface
34	Metalite Hitex Group Thermoplastic Type-I High Friction Surfacing Material	Admixture for mixing in bituminous wearing courses to provide skid resistance surface
35	High Pressure Water Mist Systems	Highly suitable against fire in road/rail tunnels, underground facilities, cable tunnels etc.
36	CASS Wire Rope Safety Barrier	Highly strong to safeguard the vehicles prone to avoidable road accidents
37	Impact Attenuators/Crash Cushions	Highly strong to safeguard the vehicles prone to avoidable road accidents
38	360 Degree Tempered Glass Road Studs	Highly strong to safeguard the vehicles prone to avoidable road accidents by channelizing the lane driving during night
39	Automark	For use in safety of roads, bridges and structures
40	INSSTAPATTCH	For road repairs
41	Asphaltoseal	On concrete decks for waterproofing purpose in lieu of mastic asphalt under BC overlay
42	Processed Steel Slag	Alternate Aggregate for Flexible Pavements
43	Nanotac Technology	New generation reactive silane technology for water resistant chemically bonded tack coat
44	Penetron Admix®(Crystalline Waterproofing Admixture)	Used for making the concrete permanently sealed against the penetration of water or liquids.
45	Fastrack™ Water Based Road Marking Paint	Road Marking Paint
46	Polyalk CP 293 (Fourth Generation Polydentate Bipolar Concrete Penetrating Corrosion Inhibiting Admixture)	Enhances the service life of the structures significantly and is beneficial in corrosion prone zones.
47	Asphalt Content Tester (AIM 590)	It is used for hot mix asphalt paving mixtures and pavement samples.
48	Trolex NCAT NTO	Apparatus to measure Asphalt content by the Ignition method.
49	GUJCON-CRF Nylone 6 Fibre	Used as a secondary reinforcement in concrete roads and bridges.
50	i-lite Reflective Pavement Marker	It is based on 100% indigenously developed technology whose properties are in conformity with ASTM D 4280-94.
51	NANOADD C1,C2,C3 & NANOFILL C1,C2,C3	For enhancing the performance for bituminous mixtures for road construction
52	Waelz Kiln (WK) Slag	Used in embankment, sub-base and bituminous/concrete pavement
53	Evocrete®ST	Acts as an enhancer for the hydration process and increases water impermeability and resistance to thermal/salt/acid/frost submitted to the committee
54	ZycoTherm	Warm mix additive
55	Coir Geo Textile	Used in construction and maintenance of roads and embankments
56	MMA Resin Based Bridge Deck Waterproofing System	Waterproofing System
57	Techgrid Geogrid System	Used in RE walls/RE slopes and Soil stabilization purpose
58	Techglass Geogrids & Techglass Composite	Used for rehabilitation & Preservation of pavements
59	TechGeo Nonwoven Geotextiles	Used for filtration/separation and Soil stabilization purpose
60	Techfab Steel/Polymer Gabions	Used for river training/ coastal and protection retaining walls
61	Techfab Woven Geotextiles	Used for filtration/separation and Soil stabilization purpose
62	Techfab Geocomposites	Used for soil reinforcement and Sub-grade stabilization
63	TechDrain PVD	Used for soil consolidation purpose