



# भारतीय राश्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

## National Highways Authority of India

(Ministry of Road Transport and Highways)

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30<sup>th</sup> May, 2012

### POLICY MATTERS-TECHNICAL (104/2012)

(Decision taken on File No. NHA/Tech/Induc/IRC/Target/2009)

#### **Sub: New Materials accredited by IRC for a period of two years for use on trial basis.**

A copy of 50 new materials/techniques accredited by IRC for a period of two years for use on trial basis is enclosed. All PIUs are advised to take note of the same for applicable/feasible usage in terms of improved/enhanced performance to encourage use of emerging technologies for new projects as also in on-going projects within the existing contract conditions. The performance of such applications may be kept under observation and reported for feedback for future applications.

2. This issues with the approval of Chairman.

Encl : a/a

*V.K. Sharma*  
30/5/12

(V.K.Sharma)

Chief General Manager (Coord./LA)

To,

All officers and employees of HQ/ZO/ROs/PIUs/CMUs/Site Offices

LIST OF NEW MATERIALS ACCREDITED BY IRC FOR A PERIOD OF 2 YEARS FOR USE ON TRIAL BASIS

Sl. No.	Name of the New Material/Technology/ Equipment	Usage
1	6D Cidex - Glass Fiber Grid	Used in pavement and asphalt overlay to prevent crack propagation
2	Aluminium-Backed Flexible Prismatic Retro Reflective Sheeting	Highly flexible and conformable retro reflective sheeting
3	Asphalt Rheology Technique	For determination of binder grade to predict the performance of the Asphalt used in road paving
4	Asphaltoseal	On concrete decks for waterproofing purpose in lieu of mastic asphalt under BC overlay
5	Brifen Wire Rope Safety Fence	For safety on expressways, dual carriageway, highways and hill roads
6	Carboncor	Road paving products used in cold mixes for repairs and surfacing
7	Coir Geotextiles	Used in construction and maintenance of roads and embankments
8	Cosmos Roadliner 2000 S	Road Safety Plastic Barriers
9	Delta Denmark Make LTL XL Retroreflectometer	For measuring retro-reflectivity of pavement markings
10	Delta Denmark Make Retro Sign GR3 Retroreflectometer	For measuring retro-reflectivity of road signages
11	Double Wall Corrugated (DWC) High Density Polyethylene (HDPE) Pipe	For non-pressure underground sewerage/ drainage / cross drainage / pipe culverts
12	Dynatest Model 3031 : Light-Weight Deflectometer	For pavement surveys for road, airports and ports
13	Dynatest Model 8000 : Falling-Weight Deflectometer	For pavement surveys for road, airports and ports
14	Dynatest Portable Road Surface Profiler Mark IV	For pavement surveys for road, airports and ports
15	Eliminator	Waterproofing system for bridge deck
16	Evercrete ® - DPS	Concrete preserver and water proofing product, spray applied to concrete and cementations surfaces to preserve, waterproof strengthen and harden the treated areas
17	Evotherm Warm Mix Technology	Eco-friendly pavement construction technology
18	Full Depth Reclamation Technology	Technology for national and state highways, major district roads and most effectively on the vast stretches of rural roads in India, to economically increase the terminal life of roads and reduce the cost per year and time per km of road building / rehabilitation
19	Geogreen Blanket	For slope protection and road embankment protection
20	German Instrument: LOK / CAPO Pull Out Tests	NDT method for estimation of in-situ compressive strength of concrete
21	Humboldt Electrical Density Gauge, Model H 4114 Series	For the purpose of compaction testing in Earthworks

**NEW MATERIALS/TECHNOLOGIES/EQUIPMENT ACCREDITED BY THE INDIAN ROADS CONGRESS**

22	Humboldt Moisture Density Gauge, Model HS 5001 Series	For the purpose of compaction testing in Earthworks, Asphalt and Concrete
23	HZL Process Waste, Jarofix	Used as filler material in road embankments
24	INSSTA PATTCH	Used for road repairs
25	NCAT Asphalt Content Furnace – Model F 85930	For the purpose of Bitumen measurement in Asphalt mixes except for gradation analysis of mixes with quartzite aggregates
26	Omnicube- Retro Reflective Sheeting	Type XI Reflective sheeting
27	Polyester Polymer Concrete	Used on road, bridge and airport projects
28	Polyguard	Waterproofing product for concrete roads and bridge decks
29	PR Plast Module	High module additive for Hot Mix asphalts
30	RBI Grade 81	stabilizer for improving the engineering properties of soil
31	Rediset WMX 8017	Used as anti-stripping additive for bitumen mixes
32	RePLAY® Asphalt Polymer	Used as asphalt pavement sealer and preservation agent
33	Rhinophalt	Prevention material used to extend the life of surface course of road
34	Rubble Master Compact Recyclers	For crushing of concrete, asphalt and natural stone excavated from road works
35	Shell Thiopave	Curing and waterproofing compound used to achieve specified strength with improved surface durability
36	Soiltech MK-III	Road safety product used in accident prone area, hilly roads, urban area, etc
37	SRMB Azar	Composite Sacrificial Zinc Coating (ZINGA) to control the menace of corrosion on structural and civil structures
38	Stainless Steel Reinforcement Bars	Structural Steel for reinforced concrete structures
39	Star Seal Supreme	Additives for improving the characteristics of asphalt in wearing course or binder course of the roads
40	TechDrain PVD	For soil consolidation purpose
41	TechFab Geocomposites	For soil reinforcement and sub-grade stabilization
42	TechFab Polymer / Steel Gabions	For river training / coastal and protection retaining walls
43	TechFab Woven Geotextiles	For filtration /separation and soil stabilization purpose
44	TechGeo Non-Woven Geotextiles	For filtration /separation and soil stabilization purpose
45	TechGlass Geogrids & TechGlass Composites	For rehabilitation and preservation of pavements
46	Techgrid Geogrids System	Used in RE walls / RE slopes and soil stabilization purpose
47	Trupave	Hybrid geo-synthetics paving mat for highway applications
48	Tenax – Soil Reinforcing System using HDPE Geogrid	Used in slope stabilisation and road & bridge widening projects
49	Zym-Tec	Ecological friendly enzyme base road construction technology
50	Zycosoil Nanotechnology	Anti-stripping additive in Hot Mix binder and Soil & Aggregate Waterproofing