



INDIA CHAPTER

International Road Federation
Fédération Routière Internationale
Federación Internacional de Caminos

अंतरराष्ट्रीय सड़क संघ

NEWSLETTER

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IRF Mission

To promote the development of roads and road networks that enable sustainable access and mobility for all

IRF Vision

A world of safe, sustainable, and efficient roads and road networks

IRF Values

Commitment to safe, smart & sustainable roads

EDITORIAL BOARD

Chief Executive Officer
Veena Nabar

FROM THE CHAIRMAN'S DESK



Dear Members,

Greetings from International Road Federation – India Chapter (IRF-IC) !

I have great pleasure in interacting with you all once again through the medium of our quarterly Newsletter and bringing you up to date regarding our initiatives and activities over the last few months.

It is indeed heartening that the Hon. President of India has on August, 9, 2019, given the assent to the long awaited Motor Vehicles (Amendment) Act, 2019, earlier passed by both Houses of the Parliament. Stiffer penalties for traffic rule violations such as over-speeding, dangerous driving, driving under the influence of alcohol and other offences such as not wearing a helmet or driving without licence etc. that will now be effective, will surely enable an improvement in the dismal scenario of road mortalities and injuries that afflict India today and make the road environment safer.

Some of the moves that we had initiated over the last few months are now ready to take off and we hope would also in their own small way help towards improving the road safety scenario. IRF – ICs initiative - Project “Stain-less Roads”, with Jindal Stainless Foundation, aimed at awakening collective consciousness and strengthening constructive contribution to a safe road environment is now underway. The Project has 3 components relating to Road Safety Education in Schools, Bicycle Conspicuity Drive and Enhanced First Aid Training of Bystanders. It was launched on July 29, 2019 and we have already initiated efforts on the School Education component of the Project, which will cover 20 Schools in South Delhi. This issue carries a detailed write-up regarding the Launch.

We also propose to explore partnerships with members and agencies that have special expertise in different road related areas, to take up various road safety activities with CSR funds from stakeholder companies.

We are thankful to all of our members for their unstinting support by way of membership fees, which keeps us going. But I would like to reiterate that what we do look forward to is your active support in our innumerable activities and efforts, which is only partially forthcoming. Your ideas and suggestions are what we need for diversifying and providing better services and programmes that would be meaningful and useful. While some of our members do contribute actively, we hope that this would be more widespread as united effort is ultimately what will help us grow.

I also appeal to all of you to involve IRF – IC in bringing about change through your CSR initiatives. IRF – IC is your organisation and we hope that you will take this to its natural conclusion. We have worked hard to have Road Safety activities included within the ambit of CSR valid activities and earnestly request your co-operation and benevolence in this regard.

Once again thanking you all for your warm support, and hoping that with all of you on board, we will be able to reach further heights.

Best Wishes

G. Sharan

Governing Council & Annual General Body Meetings of IRF - IC

The Governing Council (GC) and General Body (GB) Meetings of International Road Federation – India Chapter (IRF - IC) were held at the India International Centre, New Delhi on 12th April 2019.

The meetings were chaired by Mr. G. Sharan, Chairman, IRF - IC, in the gracious presence of Mr. K.K. Kapila, Founder Chairman.



L to R – Mr. D.O. Tawade, Member (Tech), NHAI, Mr. A. K. Shrivastava, Secretary, IRF India, Mr. G. Sharan, Chairman, IRF India & Mr. K. K. Kapila, Chairman, IRF

Warmly welcoming the members present on the occasion, he introduced Mr. A.K. Shrivastava, Former ADG, MoRT&H, as the new Secretary, who had taken over from Mr. S.K Nirmal, Secretary General, IRC.

On behalf of Governing Council & General Body, Mr. Sharan also placed on record the warm appreciation of the services of the outgoing Secretary, Mr. S.K. Nirmal.

Mr. Sharan thanked members & sponsors for the warm support, which had helped IRF-IC tide over a difficult financial period. He looked forward to an active role & participation by members in IRF – IC activities and requested them to commit their CSR funds for undertaking various road safety projects, which would help accelerate the progress in achieving the UN Decadal goals.

In his key remarks, Mr. K.K. Kapila spoke of the film “Rehana” that IRF – IC had made with the generous support of Maruti Suzuki and mentioned that various Corporates were showing interest in undertaking Road Safety Activities through the medium of the International Road Federation – India Chapter.



“Live for Today – Drive for a Better Tomorrow”

IRF – IC & IRF Geneva Ties Renewed

In recognition of their integral ties, the Agreement cementing the bond between IRF Geneva & IRF - IC was signed on 19th April 2019 at Chairman, IRF Geneva's office at Green Park Main, New Delhi. On behalf of IRF Geneva, Mr. K.K. Kapila, Chairman and on behalf of IRF India, Mr. G. Sharan, Chairman did the honours. Mr. A.K. Shrivastava, Secretary and Ms. Veena Nabar, CEO were present on the occasion.



*Mr. K.K. Kapila, Chairman, IRF Geneva & Mr. G. Sharan, Chairman, IRF-IC
Signing the Agreement*

IRF Board & the General Assembly bestow upon Mr. Kapila the title of IRF President Emeritus



The mandate of Mr. Kiran K. Kapila as IRF Chairman ended on May 29th 2019 after holding office for a third and final term.

Meeting in Costa Navarino (Greece) in the margins of the ASECAP Days, the General Assembly of the International Road Federation (IRF) has unanimously elected Mr. Bill M. Halkias as the new President of IRF with the earlier designation of Chairman being replaced by the designation of President.

In recognition of the services rendered to the IRF by the outgoing Chairman, the Board and the General Assembly bestowed upon Mr. Kapila the title of IRF President Emeritus. Thanking his colleagues on the Board for the support provided over the years and the members of the General Assembly for their trust, Mr. Kapila said "Road Safety will continue to be at the top of my agenda and I will continue to strive to ensure we reach the goal set in Vision Zero".

IRF – IC welcomes Mr. Bill M. Halkias on his election as President, IRF Geneva and wishes him success in his new role.

IRF – IC warmly congratulates Mr. K.K. Kapila for his long and eminently successful stewardship of IRF. We are proud to have him as the first President Emeritus of IRF and wish him a successful stint.

"Safety Rules are your Best Tools"

Mr. A.K. Shrivastava to be the new IRF Ambassador of India



The Board and the General Assembly of the IRF at its meeting in Costa Navarino (Greece) has honoured Mr. A.K. Shrivastava, Former ADG, MoRT&H with the title of IRF Ambassador of India.

Mr. Shrivastava, brings with him long years of experience in the Road Sector, which will help in further strengthening the bonds between the members of the Indian Sub-continent and the IRF Geneva and carry IRFs message of safer, smarter & substantial roads and mobility further in the region.

We heartily congratulate Mr. Shrivastava on his becoming IRF Ambassador.

Partnership of IRF – IC with Maruti Suzuki for film 'Rehana'

In partnership with, and with the generous CSR support of Maruti Suzuki India, the film production of “**Rehana**” has been completed. The film, through the actions of Rehana, a young girl after whom the film is titled, clearly demonstrates the action that is required to be taken by bystanders and personnel manning various road side amenities and facilities, who by virtue of their presence close to various accident sites would be in a position to reach the accident victims at the earliest.

Rehana and her father, Salim, are on their way to the hospital where her mother earlier admitted is now being discharged. Salim mentions reading in the paper about the death of an accident victim because of delay in the ambulance reaching the spot as people were more involved in filming the incident rather than calling for an ambulance. On the way, they chance upon an accident. Rehana renders first aid to the victim and then she and her father take the victim to the hospital. The Doctor, played by Dr. Amit Gupta, Professor of Surgery (AIIMS), who attends to the victim is seen



“Safety by Choice, not by Chance”

thanking Rehana for her timely care and attention, which has helped save the victim's life.

Rehana ends by advising everyone to ensure that prompt action is taken to save lives, rather than video graphing a tragedy. With one disabled person in a family, the whole family is disabled.

The importance of attending to accident victims within the Golden Hour is well known and fast response is extremely critical as the chances of survival tend to decrease with increase in response time and care.

The matter is being pursued with Addl. Sec. MoRT&H, Ms. Leena Nandan to facilitate the film being shown in cinema halls across the country, prior to screening the main film.

IRF – IC acknowledges the tremendous support of Maruti Suzuki India, which has come forward to support IRF-IC for this film and also for its support to its numerous activities.

IRF – IC & JSF Road Safety Partnership

IRF – IC and Jindal Stainless Foundation (JSF), the CSR arm of the JINDAL Group, have entered into a partnership for Road Safety activities in India with the aim of arousing the collective consciousness and strengthening constructive contribution to a safe road environment.

The Project “Stain-less Roads” being jointly undertaken will involve a work programme to launch various initiatives in the 10 Km area astride Jindal Steel Corporate Headquarters, located in South Delhi, during July 2019 to June 2020. This is in line with IRF - IC efforts to engage with Corporates to adopt areas near their operations to introduce road safety programmes, undertake them consistently and monitor them for improvements and changes. A collective effort would bring about a perceptible improvement in the road safety scenario in the area.

The programme of work, being proposed caters to School Children, Parents and Teachers, School Bus Transport Drivers; Cyclists, Bystanders, Motorcyclists, Commercial and Heavy Vehicle Drivers etc. The rationale behind the programmes is to sensitize school children and others to road safety issues, to “catch them young”, enhance safety of vulnerable road users during dark hours, create awareness and promote the Good Samaritan Law and train bystanders on providing first aid support to road accident victims during the Golden Hour, thereby increasing the chances of survival and containing injuries and disabilities.

A set of 3 activities would be undertaken under the project.

Activity 1 : Road Safety Education in Schools – August 2019 to March 2020

Activity 2 : Bicycle Conspicuity Drive – November 2019 to March 2020

Activity 3 : Enhanced First Aid (eFD) programme – December 2019 to May 2020

"The best drivers are aware that they must be beware."

Project “Stain-less Roads” Launched

The Project “Stain-less Roads” was officially launched by Mr. Abhyuday Jindal, a scion of the Jindal family and the Managing Director, Jindal Stainless Limited (JSL), who was the Chief Guest at the Launch Function organised at N.C. Jindal Public School, Punjabi Bagh, New Delhi on 29th July 2019. A galaxy of distinguished guests, Lt. General Ravi Shankar, Brig. Williams, CSR Head, JSF; Ms. Veena Nabar, CEO, IRF – IC; Ms. Vileena Mandav, JSF; Corporate Communication Team, Jindal; Traffic Inspector, Mr. Ved Prakash, Delhi Traffic Police; Mr. Ashok Goel, Founder Chairman, NCJPS Alumni and Mr. Padamjeet, a versatile performer were also present.

The programme commenced with two short IRF films on Road Safety – “Spirit & Speed” and “Good Samaritan Law”. The films propagated the Good Samaritan Law that everyone must abide by as a social responsibility and the ill effects of drunken driving and speeding, which are most commonly cited causes of Road Accidents.

The School Anthem, rendered passionately by the Jindalites reflected their committed spirit to realise their dreams and aspirations and serve the society selflessly.



School Anthem in Progress



Launch Flashing by Mr. A. Jindal

Invoking the blessings of Goddess Saraswati, the ceremonial Lamp was lit by the Chief Guest and the dignitaries. The School Principal, Dr. D. K. Pandey, welcomed all guests present and elaborated on the Road Safety Education Programme in Schools, which aims to engage all the stakeholders in synergistic efforts for building the edifice of a safe and productive society through awareness and empowerment. He stressed that the close links between school education and the outside world will generate collaborative

practices to resolve problems related to road safety and security, and create a world of safety and smiles.

Brig. Williams, CSR Head, in his inspirational address, encouraged the children to adopt an attitude of respect, empathy and caring concern for others. He felt that the roads must remain “stainless”, with prompt action and responsive behavior of each member of the society. He exhorted the students to be change agents for transmitting the message of safety that the programme seeks to instil across the larger society.

“Road Safety is no Accident”

Lt. General Ravi Shankar, enlightened the audience about the 4 Es of Road Safety – Engineering, Education, Enforcement and Emergency care, which play a crucial role in ensuring safety on roads.



Mr. Abhyuday Jindal lights the Lamp

Mr. Abhyuday Jindal launched the programme by pressing a computer key, resulting in a flashing on the screen of the legend “**Project Stain-less Roads Launched**”, innovatively designed by IRF - IC. In his inaugural address, he called upon the Jindalites to be the harbingers of change and take this programme to glorious heights. He expressed the hope that the project 'Stain-less Roads' would bring about much needed attitudinal and behavioural changes in society through the multiplicity of endeavours at the school

level viz. Formation of clubs, Training Programmes and diverse activities in the realms of art and theatre. He urged the students to contribute proactively to this initiative by forging a connecting chain of awareness and education.

The ambience was enlivened by Mr. Padamjeet, a multitalented performer, with his melodious renditions, on road safety and other issues. He called upon the students to elevate themselves above their individual selves to build a society based on the virtues of togetherness and oneness.

The Launch reflected the empowerment potential of the project “Stain-less Roads” for sensitizing young minds, and through them their parents and teachers, for a safe and secure life on roads.



Viewing Artefacts on Road Safety



Performance on Road Safety



School Children with Road Safety Placards

Amended Provisions of the Motor Vehicles Act 2019

Amendments to the Motor Vehicle Act were passed by the Parliament recently and are effective from September 1, 2019.

The Ministry of Road Transport & Highways issued a notification on August 28, 2019 listing out the amended provisions, which are summarized below :

Penalty	Old Amount	New Amount
Penalty for offenses where no penalty is specifically provided	Rs 100 for first offense and Rs 300 for second/subsequent offence	Rs 500 for first time offense, Rs 1,500 for subsequent offence
Violation of road regulations	-	Rs 500 to Rs 1,000
Traveling without Ticket	Rs 200	Rs 500
Disobedience of orders of Authority and refusal to share information	Rs 500	Rs 2,000
Unauthorised use of vehicles without license	Rs 1,000	Rs 5,000
Driving without license	Rs 500	Rs 5,000
Driving despite disqualification	Rs 500	Rs 10,000
Over-speeding	Rs 400	Rs 1000 - Rs 2000 for light motor vehicle, Rs 2,000 - Rs 4,000 for medium passenger or goods vehicles and impounding of driving license for second/subsequent offence.
Dangerous Driving	-	Imprisonment of 6 months to 1 year and/or fine of Rs. 1000- Rs. 5000 for first offence and imprisonment up to 2 years and/or fine up to Rs. 10000 for second offence.
Drunken Driving	-	Imprisonment up to 6 months and/or fine up to Rs. 10000 for first offence and imprisonment up to 2 years and/or fine of Rs. 15000 for second offence.
Driving when mentally or physically unfit to drive for	Rs 200 for first offense, Rs 500 for second/subsequent offense	First offence - Rs. 1000 and second/subsequent offence - Rs.2000
Offences relating to accident	-	Imprisonment of up to 6 months and/or fine up to Rs. 5000 for first offence and imprisonment up to 1 year and/or fine up to Rs. 10000 for second offence.
Racing and speeding	-	Imprisonment of up to 1 month and/or fine up to Rs. 500 for first offence and imprisonment up to 1month and/or fine up to Rs. 10000 for second offence.
Driving uninsured vehicle	fine of Rs. 1000 and/or punishment up to 3 months	Rs. 2000 and/or imprisonment up to 3 months for the first offence and fine of Rs. 4000 and/or imprisonment up to 3 months for the second offence.
Taking vehicle without lawful authority and seizing motor vehicle by force	Rs 500	Rs. 5000
Causing obstruction to free flow of traffic	Rs 50	Rs. 500

NATIONAL RURAL ROADS DEVELOPMENT AGENCY (NRRDA) Technology Initiatives under Rural Road Programmes in India



- Mr. Bharat Chandra Pradhan, Director (Tech)

1. INTRODUCTION

- 1.1 Rural roads are a key component of rural development as they provide access to economic and social infrastructure. In order to accelerate the connectivity to habitations/villages in rural areas, the Government of India launched Pradhan Mantri Gram Sadak Yojana (PMGSY) – a Prime Minister's Rural Road Programme in December, 2000 and started providing 100 percent funding for construction and upgradation leaving the State Governments to provide funds only for maintenance. Rural roads under the PMGSY are required to be constructed to proper engineering standards with emphasis on safety, climate resilience, quality and durability of assets.
- 1.2 (i) Due to the quantum jump in road development programmes in the country, availability of good quality aggregates is becoming an area of concern. For construction of low volume rural roads, it is possible to use locally available marginal materials and soft aggregates by suitably modifying them. Focus may, therefore, continue to promote and encourage mainstreaming such technologies as would maximize the use of locally available marginal materials and soft aggregates for cost reduction and also protecting the environment, reducing carbon footprint in the process as well as time of construction.
- 1.2 (ii) Many waste materials are available in different parts of the country such as construction and demolition waste, Marble dust and Slurry, Plastic waste, quarry waste materials, Blast Furnace Slag, Steel Slag, Copper Slag, Zinc Slag, Fly Ash, Rice Husk Ash, Paper Mill Sludge etc. Use of such materials has already been demonstrated in various layers of road embankment and pavement. Utilization of such materials should be encouraged for converting waste to wealth and avoiding environmental pollution. Another strategy would be to undertake recycling of material where reconstruction of existing road is involved. Utilization of reclaimed asphalt pavement may be considered. It may be mentioned that during the past few years, several rural road projects have been undertaken with the use of plastic waste in bituminous works.
- 1.2 (iii) Cold mix technology using cationic emulsions has also much promise, particularly in the areas of long spells of rainy season and cold climates. Several agencies are manufacturing emulsions with and without foreign collaborations. This is an environment friendly technology, is not equipment intensive and has been used on rural roads in a few states.
- 1.2 (iv) Steps need to be also taken to promote the use of polymeric geosynthetics as well as agro-based geo-textiles such as Coir and Jute, in road pavements in areas where drainage is an

“Drinking & Driving – a Fatal Cocktail”

issue, and also in areas where the soil properties need to be improved. As the Coir and Jute technologies have proved to be effective in protection of slopes and the IRC State of Art Reports is available, these technologies should be used for protection of slopes and embankments. A few roads were constructed under PMGSY also, using Jute for improvement of poor sub-grade soils. Similarly, some roads have also been constructed using Coir in southern States of the country under different state government schemes. The performance of such roads has been reported to be better than the controlled sections.

- 1.2 (v) In forest areas, and for providing connectivity to very small habitations, consideration may be given to construction of gravel roads, with or without thin bituminous sealing, as proposed in IRC: SP:72 and IRC:SP:77. Good quality gravel, available in different parts of the country should be used as potential material for construction of low volume rural roads. A few gravel sealed roads, where sealing can be done using bitumen emulsions or thin bituminous surfacing such as Surface Dressing can also be constructed. Though no performance data on sealing of gravel roads is available in India, countries such as South Africa and Australia are already using such gravel sealed roads on large scale.
- 1.3 The National Rural Infrastructure Development Agency- an arm of the Ministry of Rural Development has recently developed comprehensive guidelines to promote cost effective environment friendly technologies, using locally available marginal materials, industrial wastes and faster construction technologies.

2. MAINSTREAMING EXISTING TECHNOLOGIES

- 2.1. Box 1 provides a listing of some technologies for which the Indian Roads Congress (IRC) have developed/formulated codes, manuals guidelines but somehow they are not getting utilized in the field. Some of the reasons for this could be difficulty in execution, lack of awareness, non-availability of proper equipment etc.

3. PROMOTING USE OF INNOVATIVE MATERIALS AND TECHNOLOGIES

- 3.1 The IRC has adopted the practice of accreditation of innovative materials and technologies, which NRIDA has divided into two group where field trials have been completed and results are found to be satisfactory. For such technologies, it is considered advisable to undertake evaluation and analysis of the demonstration projects and develop specifications and rate analysis for a replication on a larger scale.
- 3.2 The second group would cover those materials and technologies where field trials have not been undertaken. Actually, the NRIDA has gone further and included even those materials where even though there is no accreditation by IRC, the materials seem to be promising based on research work in India or widely adopted abroad (the third group referred to in para 1.2 above).
- 3.3. The New Technology guidelines of NRIDA envisage that at least 15 per cent (10% from Mainstreaming technologies having IRC specifications / guidelines and 5% from IRC accredited

“Kill your speed, don't kill others “

technologies) of projects for rural roads should be adopted in implementation of PMGSY, as considered appropriate for the development and construction of rural roads.

Box 1: Technologies for which IRC Codes exist

- (i) Soil stabilisation technologies:
 - a. Stabilisation of soil and granular material using cement, lime, fly ash – MoRD Specifications for Rural Roads and IRC :SP- 89
 - b. Mechanical stabilisation – IRC : SP -20 and IRC:SP-89
 - c. Guidelines for the Design of Stabilised Pavements - IRC:SP:89 (Part II)
- (ii) Improving properties of locally available marginal materials, soft aggregates, brick aggregates etc – MoRD Specifications for Rural Roads.
- (iii) Use of fly ash in cement for concrete structures (culverts, bridges)/ use of blended cement – MoRD Specifications for Rural Roads
- (iv) Roller compacted concrete pavement – IRC : SP -68
- (v) Interlocking concrete block pavement – IRC : SP- 63
- (vi) Cold mix technology using bitumen emulsions for bituminous wearing coat (premix carpet, surface dressing) – IRC: SP: 100 and MoRD Specifications.
- (vii) Use of Fly ash in Road Embankment – MoRD Specifications for Rural Roads
- (viii) Use of geo-textiles, jute and coir technology in road pavements and associated works – HRB SR No. 21 - 2012 (State of the Art) and IS 15871
- (ix) Use of polymeric geosynthetics - IRC:SP: 59
- (x) Use of waste plastic in bituminous works - Guidelines for the use of Plastic Wastes in Rural Roads Construction issued by NRIDA
- (xi) Use of bio-engineering measures including jute/bamboo matting for slope stabilisation, crib wall, terracing with locally available pine trees, bamboos, etc. in hilly areas - MoRD Specifications for Rural Roads
- (xii) Use of crusher run macadam - MoRD Specifications for Rural Roads
- (xiii) Use of Industrial wastes including quarry waste - MoRD Specifications for Rural Roads
- (xiv) Gravel Roads (IRC:SP:77) / Gravel Sealed Roads
- (xv) Guidelines for use of Construction and Demolition Waste in Road Sector- IRC:121
- (xvi) Guidelines for use of Iron, Steel and Copper Slag in Construction of Rural Roads – IRC:SP:121
- (xvii) Pavement Recycling / Reclamation – IRC: 120
- (xviii) Guidelines for design and installation of Gabion Structures- IRC :SP:116

4. JOURNEY SO FAR MADE

Under New Technology drive the MoRD has sanctioned 60,395 km of PMGSY roads adopting different new technologies, such as Waste Plastic, Cold Mix, Nanotechnology, Paneled Cement Concrete, Cell Filled Concrete, Terrazyme and Cement Stabilization, of 31,816 km of roads have been completed till 31st March, 2019.

5. CONCLUSION

It is hoped that implementation of these Guidelines for Technology Initiatives would help in promoting environment friendly and cost-effective strategies in delivery of rural road projects in the country. The MoRD has also committed to sponsor research studies to various academic and research institutions in the country to identify technologies that can reduce the cost of construction and/or increase the life of the road.

Water Resistant Long Life Gravel Road Construction with Zydex Soil Stabilisation Additives in 2016

Government of Madhya Pradesh adopted the globally patented Zydex Nanotechnology for the construction of gravel roads that withstand deformations due to the prevalent rainfall of 1000 mm in the monsoons.

Challenge

- Black cotton soil base
- Borrow area soil of CBR 8.2% & FSI of 20%
- Deformation under heavy rains during monsoons

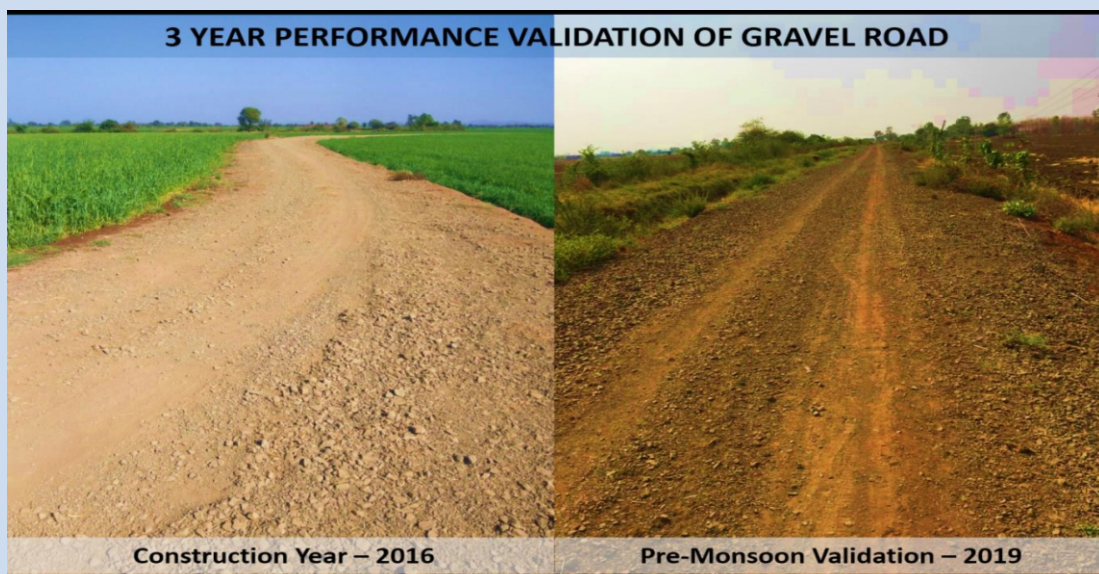
Solution

- The soil at Thua-Nayagaon-Bhairapur, Hoshangabad, Madhya Pradesh, India, was treated by mixing the soil with 3% Cement and 0.6 kg/m³ of Zydex Additives
- The mixing was performed with the help of a tractor mounted ripper/cultivator and rotavator
- The layer was then compacted to construct a 150 mm thick water resistant stabilized base
- The technology reduced the FSI to 2% and increased the CBR to 31.5 %

Benefits

- Reduced swelling & water permeability by 500 fold
- Higher Load Bearing Capacity due to the Nano Bonded Flexible Layer
- Higher structural strength

Zydex Nanotechnology enables the construction of low cost Durable Green Roads, using locally available materials, equipments and semi-skilled workforce.



Metalite's Green Initiative with Infrared Recycling Road Repair Technology

Metalite Group of India has been doing some great work with their Unique Nuphalt infrared recycling road repair technology by the timely arrest of all kinds of defects like undulations, linear / alligator cracks, rutting, eroded edges, potholes, etc. on asphalt roads. They have approvals from CRRI and recommendation from MORTH based on IRC accreditation, in addition to BBA and HAPAS in (UK) England.

Work done by Metalite successfully with Highway Concessionaires

- Cube Highways and Transport Assets Advisors Private Limited – Piduguralla stretch in Andhra Pradesh.
Wave like undulations (also called Rutting) of 6-9 inches arrested and smoothed.
- Peak Infrastructure (Funded by Brookfield) – Highway stretch - Maharashtra and Andhra Pradesh

Works even in Monsoons



Before

After

Works day and night on plains as well as in hilly terrains, during dry season and heavy monsoons of Maharashtra, again providing smooth riding quality on the roads which were otherwise ready for overlay.

- Soma Roadis – Highway stretch in Jalandhar and Panipat – Punjab & Haryana
- Ashoka Buildcon after being satisfied with the performance and achievements, have already bought two machines.



Metalite Road Safety and Marking Materials

- Metalite has imported from UK, a completely automated plant, the first in Asia, of 1000 tonnes a month, manufacturing capacity of high quality road marking and safety materials with robotized packaging / palleting facility.

Metalite's Contribution towards the cause of Sustainable Development and Road Safety

- **Infrared recycling technology** repairs roads, with a defect free safe surface, no wastage and differs the overlay or resurfacing requirement.
- **High friction Anti-skid surfacing** - prevents road accidents, reducing stopping distance on braking by upto 30%. The bright colors act as a visual alert while rough surface prevents skidding especially on wet surfaces.
- **Ribline** – Provides audible and vibratory warning to drivers going over the edge line/central merge, especially during dark and wet conditions.
- **Cycle Track Material** - Specialized coloured surfacing demarcates a safe lane for cyclists.
- **Thermo Plastic Paints** - Thermoplastic paints of high Retro Reflective quality to suit the various specifications like MoRT&H, BS 3262 and AASHTO grades.



Upcoming Events

Rural Roads for Development

09-13 Sep 2019

Residential Short Course at the University of Birmingham, UK



UNIVERSITY OF BIRMINGHAM



INTERNATIONAL ROAD FEDERATION
FEDERATION INTERNATIONALE
DES ROUTES



[RURAL ROADS FOR DEVELOPMENT COURSE](#)

Birmingham, UK , 09 September 2019 - 13 September 2019

The University of Birmingham, in association with the International Road Federation Geneva is pleased to offer this hands-on training course in the area of rural roads.

The course is a 5-day, intensive and practical residential programme delivered by experts of international repute. It is aimed at road sector professionals, road engineers, field engineers, planners, road maintenance managers who want to be exposed to cutting-edge established methodologies in rural transport for development.



[Regional Seminar on Road Safety Audits for Decision Makers; & International Course on Road Safety Engineering and Audits](#)

Arusha, Tanzania, 16 September 2019 - 20 September 2019

IRF together with the Tanzania Roads Association (TARA), Tanzania Transportation Technology Transfer (TanT2) Centre and TANROADS are pleased to join hands and to present a 1 day Regional Seminar on Road Safety Audits to be held at Arusha International Conference Centre (AICC), Arusha, Tanzania on 16th September 2019 followed by a 4 days International Course on Road Safety Engineering and Audits to be held at the same venue from 17th – 20th September 2019. Delegates to attend the International Course on Road Safety Engineering and Audits are also required to attend the Regional Seminar on Road Safety Audits for Decision Makers.

IRF
Event

[Course on Traffic Safety in Work Zones](#)

Doha, Qatar, 24 September 2019 - 26 September 2019

IRF (Geneva) together with the Qatar Transportation & Traffic Safety Center and Qatar University are pleased to announce the International Course on Safety in Road Works which will be held from 24th to 26th September 2019 in Doha, Qatar.



[IRF Special Sessions at PIARC 26th World Road Congress](#)

Abu Dhabi, UAE, 06 October 2019 - 10 October 2019

Abu Dhabi will be hosting the 26th World Road Congress of PIARC on 6-10 October 2019. Under the patronage of His Highness Sheikh Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces, the theme of the PIARC Congress is “Connecting Cultures enabling economies”.



[26th World Congress on Intelligent Transport Systems \(ITS\)](#)

Singapore, 21 October 2019 - 25 October 2019

IRF is pleased to support the 26th World Congress on Intelligent Transport Systems (ITS) to be held from 21 to 25 October 2019 at Suntec Singapore Convention & Exhibition Centre. Co-hosted by the Land Transport Authority (LTA) of Singapore and the Intelligent Transportation Society (ITS) Singapore, it will be the first time this Congress is being organised in Southeast Asia.

Membership

IRF IC is a membership based organization, representing corporate and institutional players and stakeholders in the road infrastructure sector in the country. Road safety has been at the core of IRF IC's activities, which also promotes "green road" approach. IRF IC invites all stakeholders in the road sector to join it as members and contribute to the efforts for better road infrastructure and safety.

Kindly note our changed office address, which is reproduced below.

**International Road Federation – India Chapter
“LMR House”, 2nd Floor, S-16, Green Park Extension
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