

# Newsletter

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Safe Roads, Safe Mobility

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**Somenath Ghosh**

IT Advisor, IRF-IC

### **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 and sustainable roads.

As we delve into the latest developments in our community, it's imperative to address a concerning trend that has been gaining traction in recent times. The emergence of bike and car stunts as a means to garner attention, particularly on social media platforms, has raised significant alarms within our society. It's disheartening to note that a considerable number of individuals involved in such stunts fall within the age bracket of 15 to 35 years. This demography represents a pivotal segment of our population, yet it also bears the brunt of a disproportionate number of accidents and fatalities each year. These accidents not only bring immense grief to families but also pose a substantial burden on our healthcare system.

The allure of gaining popularity on social platforms should never outweigh the value of human life. The risks associated with performing stunts on bikes or cars are not justifiable by the fleeting moments of online recognition they may bring. Instead, they often lead to irreversible consequences that ripple through families and communities.

Fortunately, organizations like IRF India have taken proactive measures to combat this alarming trend. Through their initiatives, such as creating mass awareness campaigns and sensitizing programs, they aim to educate the public about the importance of road safety and the inherent dangers of reckless behavior on the roads. One notable effort by IRF India involves the ongoing steps to integrate road safety anthem into public transport and metro systems. By incorporating the anthem into our daily commute time, we are reminded of the collective responsibility we hold in ensuring the safety for ourselves and others on the road.

As responsible members of society, it is incumbent upon us to heed these warnings and take concrete actions to mitigate the risks associated with reckless behavior on the roads. Let us prioritize the safety and well-being of all individuals, irrespective of age or social media clout and work towards creating a safer environment for everyone.

Together, through awareness, education and responsible behavior, we can strive to reduce the incidence of accidents and ensure that every journey undertaken on our roads ends safely.





**K. K. Kapila**  
 President (Emeritus), IRF Geneva &  
 Founder President, IRF India Chapter

It brings me great pleasure to reach out to you in my capacity as the President (Emeritus) of IRF Geneva and as the Founder President of IRF India Chapter. I am delighted to inform you that I have been invited to speak at two prestigious events in the upcoming months, where we will explore the theme of Smart, Safe, and Sustainable Mobility for all.

Firstly, I was honored to be invited as a speaker at the Intertraffic conference in Amsterdam, held in April 2024. This conference served as a platform for discussing innovations and advancements in the field of transportation, with a focus on making mobility smarter, safer, and more sustainable for all.

Additionally, I am delighted to inform you that I will also be participating in the IRF World Road Congress 2024, which will be held in Istanbul. Organized every four years, the IRF World Congress is a landmark event that celebrates the road and mobility sectors as drivers of growth and development. Comprising a technical conference, a large exhibition and a diverse program of technical visits, the Congress provides a unique opportunity for thought leadership, business development, education and fostering successful partnerships in our industry. I would like to emphasize an exciting opportunity for participation in the form of submitting papers on 09 subtopics. I am confident that many of you would have valuable contributions to make and I encourage you to consider this opportunity to share your expertise and insights with the broader community.

I am excited to contribute to these esteemed gatherings, where we will have the opportunity to exchange ideas, showcase innovations and chart the course for a more sustainable and resilient future in the transportation sector.

I look forward to the opportunity to connect with many of you at these events and to collectively explore ways to advance our industry for the betterment of society.



**Lt.Gen. Harpal Singh (Retd.)**  
 Former E-in-C, Indian Armed Forces  
 President, IRF India Chapter

It is my privilege to engage with you as the President of the International Road Federation- India Chapter. It is truly an honour to contemplate the meaningful initiatives we have embarked upon and the importance of this newsletter in our shared advancement.

Firstly, I would like to highlight the success of the conference held on the theme of "**Vision Zero: Targeting Road Safety by 5Es with Innovative Technologies**" during the Road Safety Month. This conference brought together experts and stakeholders to discuss strategies for achieving Vision Zero - a future with zero road fatalities and serious injuries. The focus on the 5Es – Engineering of Roads, Engineering of Vehicles, Education, Enforcement & Emergency care - along with innovative technologies, is crucial in our mission to enhance road safety. You may kindly peruse the detailed report of this activity as part of this newsletter.

In addition, we organized a two-day national conference in New Delhi on the theme of "**Revolutionizing Road Infra with Modern Equipment, Technologies, Sustainable Material and Policy Guidelines.**" This conference provided a platform to explore advancements in road infrastructure, equipment, materials and policies that can contribute to sustainable and efficient transportation systems. You may kindly peruse the detailed report of this activity as part of this newsletter.

Continuing our commitment to knowledge dissemination, we are pleased to announce that we will launch the IRF-India Yearbook, similar to the previous year, highlighting our achievements, initiatives and insights into road safety and sustainable development. Additionally, we have introduced a lecture series every month, focusing on relevant topics related to sustainable development and road safety, aimed at fostering dialogue and sharing best practices.

Moreover, in the upcoming financial year, we plan to organize three regional conferences across India to engage with local stakeholders, share knowledge and address region-specific challenges. Additionally, to maintain momentum and keep the spotlight on road safety, we conduct a webinar every month, targeting policymakers, stakeholders and road safety professionals. These webinars serve as platforms for discussion, education and collaboration on critical road safety issues.

Let me reiterate that IRF-India remains steadfast in its commitment to road safety. We recognize the importance of collective action, innovation, and sustained efforts in achieving our goal of safer roads for all. As we move forward, let us continue to prioritize road safety in all our endeavors, knowing that every step we take brings us closer to our vision of zero road fatalities.

Thank you for your continued support and dedication to our cause.

## IRF-ICs Conference Cum Exhibition

Revolutionizing Road Infra with Modern Equipment, Technologies,  
Sustainable Materials and Policy Guidelines

Date: February 29 - March 1, 2024

Venue: Manekshaw Auditorium, New Delhi

The International Road Federation India Chapter (IRF-IC) conference, themed 'Revolutionizing Road Infra with Modern Equipment, Technologies, Sustainable Materials, and Policy Guidelines', convened at the Manekshaw Auditorium, New Delhi, on February 29 and March 1, 2024.

### Day 1 Highlights:

**Inaugural Session:** The conference commenced with an inaugural session, setting the tone for discussions on revolutionizing road infrastructure with smart equipment and sustainable material.

Welcome Address - Lt. Gen. Harpal Singh (Retd), President IRF IC

Address by - Mr. K. K. Kapila, Founder President IRF IC

Special Address - Mr. Anouar Benazzouz, President International Road Federation Geneva

Address by Guest of Honour - Mr. Sudhendu J Sinha, Adviser, NITI Aayog

Chief Guest Address - Mr. Anurag Jain, Secretary, MoRTH

**Keynote I** was delivered by **Mr. V. Suresh**, Former Chairman & Managing Director of HUDCO, focusing on "Sustainable Technology & Innovation in Infrastructure Development." With his extensive experience and expertise in the field, Mr. Suresh provided invaluable insights into the importance of leveraging sustainable technology and innovation to propel infrastructure development forward.

### Technical Session 1, titled "Innovative and Intelligent Construction Equipment"

It was chaired by **Prof (Dr.) Manoranjan Parida**, Director of CSIR-CRRI, with **Mr. B K R Prasad**, GM Marketing at TATA Hitachi, serving as the Co-Chair. The session delved into the latest advancements in construction equipment, focusing on innovation and intelligence in their design and functionality.

The session brought together 6 distinguished speakers, each presenting insights into cutting-edge advancements in construction equipment technology.

- **Mr. Roopak Sharma**, VP, RND, JCB India
- **Mr. Satin Sachdeva**, Secretary CERA, **Rental equipment for construction**
- **Mr. Meghdut Guha**, Managing Director, Trans Asian Techno Pvt. Ld. **SAKAI: Intelligent compaction equipment**
- **Mr. Amol Sinha**, Director, TEREX: **Equipment**
- **Mr. Rachit Kaushal**, Key Accounts Manager, Amman India: **Equipment**
- **Dr. Gopal Rai**, CEO, DGC Group: **Rehabilitation of Bridges**



## Technical Session 2, titled "Innovative, Sustainable, and Cost-effective Construction Materials & Technologies - I"

It was chaired by **Mr. S K Nirmal**, Secretary General of IRC, with **Dr. Hari Kishan Reddy**, Chairman of CUBE Highways, serving as the Co-Chair.

The session featured 6 distinguished speakers who shared their expertise and insights on various aspects of innovative and sustainable construction materials and technologies.

- **Mr. Satish Pandey**, Principal Scientist, CSIR- CRII: **Steel Slag Road**
- **Dr. L. R. Manjunatha**, Vice President, JSW Cement: **Low Energy Cement**
- **Mr. Vikas Thakar**, MD, Pavetech Consultants, CEO, Construction Excellence Testing & Research Services: **White topping as a cost effective and sustainable technology for rehabilitation of High-volume traffic highways.**
- **Dr. A.V. Rahul**, Assistant Professor, IIT Tirupati: **Concrete 3D Printing for Fast and Sustainable Construction**
- **Dr. Dharamveer Singh**, Professor IITB: **"Tools and Techniques for Understanding Bituminous Mixes and Pavement Performance"**
- **Mr. Himanshu Agarwal**, Chief Operating Officer, Zydex Industries Pvt. Ltd.



### Presentation by Sponsors/Exhibitors

During the presentation by sponsors and exhibitors, attendees were treated to a diverse array of topics crucial to the advancement of road infrastructure. **Mr. Manish Barot**, Head of Technical Sales and Business Development at **Techfab (India) Industries Ltd.**, delved into the utilization of Biaxial Geogrids for optimizing flexible pavements, supported by enlightening case studies. Following this, **Mr. Sushaant Pahalwan**, Head of Business Development at **Orafol India Pvt. Ltd.**, elucidated on innovative road safety solutions, shedding light on pivotal advancements in the field. **Mr. Subodh Kumar**, Senior Vice President of Group Corporate

Affairs & Policy Advocacy at **Vishwa Samudra**, captivated the audience with an exploration of alternate technologies in road construction, emphasizing the advantages of employing advanced machinery. Finally, **Dr. Ratnakar Mahajan**, Regional Technical Head for India, South-East Asia & Pacific, **Maccaferri India**, underscored the importance of quality reinforced soil using geosynthetics, framing it as the need of the hour for sustainable infrastructure development. Collectively, these presentations offered valuable insights and solutions vital for addressing contemporary challenges in the realm of road infrastructure.

## Technical Session 3, titled "Innovative, Sustainable, and Cost-effective Construction Materials & Technologies - II"

It was chaired by **Mr. D. Sarangi**, Director General (RD) & Special Secretary at the Ministry of Road Transport and Highways (MoRTH).

This session featured 5 distinguished speakers who shared their expertise and insights on cutting-edge construction materials and technologies aimed at enhancing sustainability and cost-effectiveness in infrastructure projects.

- **Dr. Ambika Behl**, Sr. Principal Scientist, CSIR-CRRI: **Sustainable pavements**
- **Ms. Minimol Korulla**, Head (SISP) Maccaferri: **Use of Geosynthetics in Flexible Pavements**
- **Mr. Arpan Ghosh**, President Engineering, Cube Highway: **PG Bitumen in Highway Construction**
- **Ms. Atasi Das**, Assistant Vice President, GR Infra: **New Edge Tech in Pavement Application**
- **Mr. Shashank Shekhar**, Co-Founder & CEO, MiCoB: **3D Concrete Printing**



## Presentation of Start-ups & Innovative Ideas

The presentations of start-up and innovative ideas brought a wave of fresh ideas and innovations to the forefront, showcasing the dynamism of emerging talents in the road infrastructure domain. Led by entrepreneurs and researchers from various esteemed institutions and organizations, these presentations unveiled cutting-edge researches and transformative solutions.

- **Mr. Konala Varma**, CEO, INAI (Hyd)
- **Dr. Venkata Satyanand Mutnuri**, Technical Officer, TIHAN (Hyd)
- **Mr. Chaman Tulsyan**, President, Verma Industries
- **Mr. Akash Singh**, Research Scholar, IIT BHU
- **Prof. Nikhil Saboo**, IIT Rorkee
- **Mr. Ganesh Verma**, CMD, Bhavya Srishti Udyog Pvt Ltd.
- **Ms. Prerna Kalra**, Co-Founder, Hanu AI
- **Mr. Biren Shah**, Co-Founder & MD, CATS Global



## Poster Presentations

The poster presentations offered a glimpse into a variety of road infrastructure research and innovations. Attendees engaged with visually captivating displays on topics like construction materials, transportation solutions, and road safety technologies. Through discussions with presenters, participants shared insights, fostering networking and collaboration. This interactive session showcased the latest advancements, inspiring new ideas, and facilitating information exchange within the community.

**A three-member jury selected the best three posters for award as follows, in the order of merit.**

### FIRST PRIZE

Poster Title: **TREATMENT OF CONSTRUCTION AND DEMOLITION WASTE AND RELATIONAL PARAMETER OPTIMIZATION FOR RECYCLED AGGREGATES**

1. Mr. Sumit, Indian Institute of Technology Jodhpur
2. Dr. Bhupendra Singh, Indian Institute of Technology Jodhpur
3. Dr. Parth Panchmatia, Kansas State University, USA



**Helmet is for your own SAFETY!**

DO NOT TAKE CHANCE - PROTECT PILLION RIDER ALSO

Initiative by IRF (India Chapter)



## **SECOND PRIZE**

Poster Title: **CELEBRATING ECO-FRIENDLY INFRASTRUCTURE : GEOPOLYMER AND RAP INTEGRATION IN RIGID PAVEMENT DESIGN FOR A SUSTAINABLE FUTURE**

1. Mr. Ayana Ghosh, Indian Institute of Technology Roorkee
2. Mr. Abhitesh Sachdeva, Indian Institute of Technology Roorkee
3. Prof. G.D. Ransinchung R.N, Indian Institute of Technology Roorkee
4. Prof. Praveen Kumar, Indian Institute of Technology Roorkee

## **THIRD PRIZE**

Poster Title: **NEW LOW CARBON CEMENT – LC3 FOR SUSTAINABLE PRACTICES IN INFRASTRUCTURE DEVELOPMENT OF INDIA**

1. Mr. Lupesh Dudi, Indian Institute of Technology Delhi
2. Prof. Shashank Bishnoi, Indian Institute of Technology Delhi

## **Start-ups & Innovative Ideas Presentations**

The best three Start-Up and Innovative Ideas were selected by a three-member jury for giving awards, which were in order of merit.

## **FIRST PRIZE**

TITLE: **AUTONOMOUS NAVIGATION TECHNOLOGY DEVELOPMENT**

**Dr. Venkata Satyanand Mutnuri**  
NMICPS TiHAN Foundation  
Room No. 620, Academic Block C  
Indian Institute of Technology Hyderabad  
Kandi, Sangareddy  
Telangana - 502284  
Contact Number : 040 2301 6986

## **SECOND PRIZE**

TITLE: **USE OF SUGARCANE MOLASSES FOR PRODUCTION OF BIO-BITUMEN: PROMOTING SUSTAINABILITY IN ROAD CONSTRUCTION**

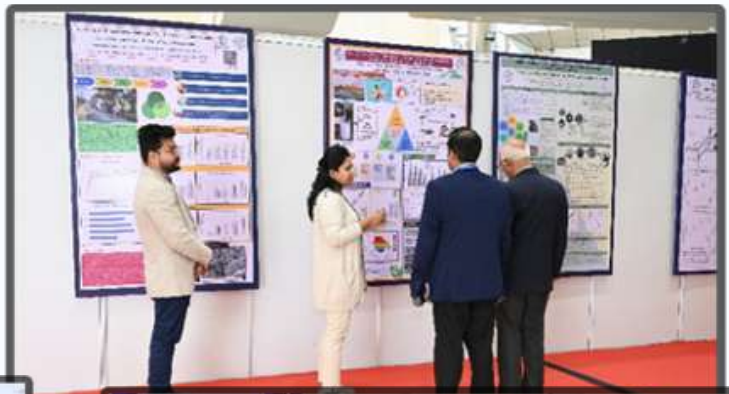
**Mr. Dheeraj Mehta & Dr. Nikhil Saboo**  
Department of Civil Engineering  
Indian Institute of Technology, Roorkee  
Dist. Haridwar, Uttarakhand-247667  
Contact Number : +91 7579048967

## **THIRD PRIZE**

TITLE: **BAMBOO CRASH BARRIER: A WORLD FIRST INITIATIVE TOWARDS SUSTAINABLE SOLUTION FOR ROAD SAFETY**

**Mr. Ganesh Verma**  
Bhavya Srishti Udyog Pvt. Ltd.,  
Near Prerana Vidyalaya campus,  
Kiritpur road, Village - Kathiya,  
District- Bemetara, Chhattisgarh, 491335.  
Contact Number : +91 99980 60749





## Cultural Programme

The first day concluded with a cultural programme, providing attendees with a refreshing break and networking opportunity.



## Day 2 Highlights:

**Keynote II** on Road Safety in India delivered by **Mr. K. K. Kapila**, President Emeritus of the International Road Federation (IRF) Geneva, underscored the urgent need for comprehensive strategies to address the pressing issues of road safety in India. His address highlighted infrastructure deficiencies and behavioral issues among road users, advocating for collaborative efforts across sectors to prioritize safety on Indian roads and create a sustainable transportation ecosystem.



### Technical Session 4 on "Innovative Technologies in Road Safety"

It was chaired by **Mr. Rahul Bharti**, Executive Director of Maruti Suzuki, with **Mr. Akhilesh Srivastava**, Executive Vice President of IRF-IC, serving as the Co-Chair. This session featured six esteemed speakers who presented cutting-edge technologies and solutions aimed at enhancing road safety.

- **Mr. S Kumar Popli**, Advisor (Road Safety), NHA: **NHA initiatives on Road Safety**
- **Mr. Dipan Bose**, Senior Transport Specialist, World Bank: **WB initiatives to improve Road Safety in India (Video)**
- **Dr. Joydeep Shome**, DDG, NIC: **eDAR/iRAD: Towards better accident reporting and management**
- **Mr. Teja Gudena**, Executive Vice President, Netradyne: **ADAS System for road safety**
- **Dr. S. Velmurugan**, HoD, Chief Scientist, Traffic Engineering and Safety Division, CSIR - CRRRI, New Delhi: **Revolutionizing Road Safety using Artificial Intelligence: A Case Study**
- **Prof. Rajalakshmi**, Professor, TIHAN (Hyd): **Autonomous Vehicle for India**

In **Keynote III**, **Prof. Mahesh Tandon**, CMD of Tandon Consultants, explores Sustainable Technology & Innovation in Bridges. With expertise in civil engineering, he advocates for eco-friendly materials and resilient designs to enhance safety and longevity while minimizing environmental impact. Prof. Tandon's insights offer a roadmap for a greener future in bridge construction.



### Technical Session 5 on "Bridges and Tunnels"

It was chaired by **Prof. Mahesh Tandon**, CMD of Tandon Consultants, who brought his wealth of knowledge and expertise to guide the discussion.



**BE A GOOD CITIZEN - DRIVE IN YOUR LANE**

Initiative by IRF (India Chapter)



The session featured seven distinguished speakers who delved into various aspects of bridge and tunnel infrastructure.

- **Mr. Alok Bhowmick**, Adjunct Professor, B&S Engineering Consultants: **"FRP Composites – A Wonder Material of Future for Infrastructure Application"**
- **Mr. J. K. Goyal**, Chief Scientist, CSIR-CRRI: **Water proofing in bridges**
- **Dr. Narayan Chandra Pal**, OSD-cum-Engineer in Chief (Civil) Works Department Govt of Odisha **Bridge Management System**
- **Col. Parikshit Mehra**, BRO: **Challenges in Tunnel Construction**
- **Mr. Yousef Eshaghpour Rahimabadi**, Team Leader of AE for NHIDCL ICT: **Green Technologies of Road & Tunnel**
- **Mr. Satish Navanale**, COO, Long Span Structures Pvt Ltd. **Longspan Bridge**
- **Dr. Harshavardhan Subbarao**, Chairman & Managing Director, Construma Consultancy Pvt Ltd



### **Technical Session 6 on "Innovative Technologies of project planning, DPR, Survey, Structural Design, Mix Design, Project Monitoring using IoT, GIS, AI, Drone, BIM, 3D, Digital Twin, and Road Asset Management."**

It was chaired by **Mr. R.K. Pandey**, Advisor to the Honorable Minister of Road Transport & Highways, and co-chaired by **Ms. Susanna Zammataro**, Director-General of IRF, this session brought together 6 distinguished speakers.

- **Mr. Tony Mathew**, Principal Transport Specialist, TRL(India): **Data & Road Asset Mgmt**
- **Mr. Kasturi Srinivas**, Industry Director (Transportation), Bentley Systems: **Design Software & Innovations**
- **Dr. Rakesh Kumar**, Chief Scientist: **Presentation of a CRRI Case Study**
- **Mr. Gurpreet Singh Basra**, Delivery Head, AMNEX Info-technologies: **Data Lake Concept & Use**
- **Mr. Amit Saxena**, Regional Sales Manager, Trimble: **GIS and AI Based Project Monitoring Tools**
- **Dr.-Ing. Saptarshi Sasmal**, Chief Scientist, CSIR- Structural Engineering Research Centre; **Safety Auditing, Capacity Augmentation and Service Life Enhancement of Road Bridges – Through Detailed Instrumentation, Field Tests and Simulations**



## Valedictory Session and Award Ceremony:

The conference concluded with a valedictory session and an award ceremony, presided over by **Lt. Gen. Raghu Srinivasan, VSM Director General, Border Roads Organisation.**

The ceremony recognized exemplary contributions and innovations in the road infrastructure sector, honoring individuals and organizations driving positive change. The Awardees of start-up & innovative ideas as well as poster presented were given the awards by the Chief Guest.

Lt. Gen. Raghu Srinivasan delivered closing remarks, highlighting the significance of collaboration and innovation in shaping the future of road infrastructure in India.

The conference served as a platform for industry leaders, policymakers, and stakeholders to exchange ideas, explore partnerships, and chart a path towards a more robust and sustainable road infrastructure ecosystem. Through engaging sessions and presentations, attendees gained valuable insights and solutions to address the evolving needs of the road sector in India.



**Don't be in Rat Race... Drive with Grace !**

Initiative by  IRF (India Chapter)



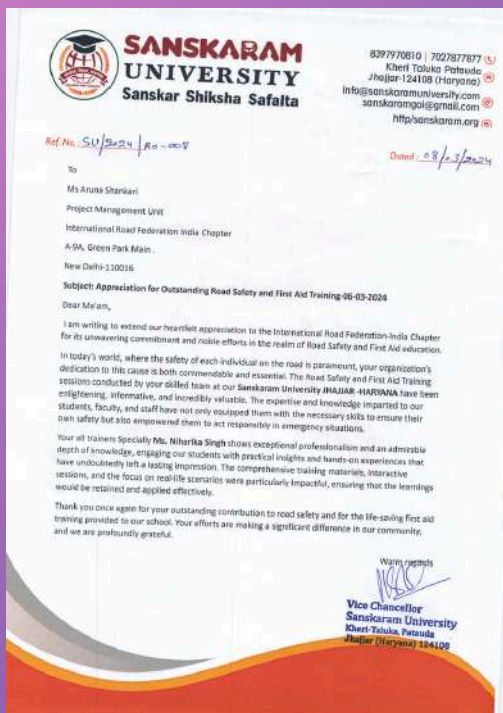
# First Responder Training Program at Maruti Suzuki's IDTR.

Maruti Suzuki India conducted training sessions for 8,500 people—primarily commercial drivers. The training was conducted in partnership with AIIMS, one of the country's premier medical institutes, and the International Road Federation (IRF), through a pilot programme.

The training equips them with the knowledge and practical skills needed to assist road accident victims during the “golden hour” in the event of a road incident. The golden hour after an accident refers to the first hour after an accident during which medical intervention can reduce mortality. The First Responder Training Programme is designed to train drivers in critical life-saving techniques like cardiopulmonary resuscitation (CPR), controlling bleeding, the correct way to remove a helmet, the use of splint and sling and moving victims safely. Participants also learn to promptly activate emergency response systems. These skills can improve survival rates, especially in the first hour after an accident, the company said in a press statement.

Maruti Suzuki partnered with AIIMS and IRF to provide first aid and trauma care training to commercial drivers at its Institute of Driving and Traffic Research (IDTR). The pilot initiative took place at IDTR in Haryana, Delhi, and Bihar. The company highlighted that the participants received comprehensive training in emergency care in collaboration with Jai Prakash Narayan-AIIMS Trauma Centre, Delhi.

<https://www.autocarpro.in/news/maruti-suzuki-trains-8500-commercial-drivers-in-road-safety-with-aiims-and-irf-120307?amp=1>



## An Appreciation Letter

IRF-IC Received an appreciation letter from Sanskaram University for outstanding road safety and first aid training which is truly commendable! It reflects IRF-IC's commitment to promoting safety and well-being within the community, and it is a testament to our dedication and expertise in these crucial areas.

# In-house Activity: Road Safety Training to the Staff

In a consistent effort to stay committed to road safety pursuits, IRF-IC team attended an inhouse training on April 18th. This training session was conducted by Prabhaav Foundation covering a range of essential topics vital for navigating the roads with confidence and ensuring swift response in times of need.

Throughout the day, our team delved into the intricate workings of traffic control devices, gaining a deeper understanding of their role in maintaining order and preventing accidents on our roads. From traffic signals to road markings, every detail was meticulously explored to equip us with the knowledge needed to navigate safely through diverse traffic scenarios. Moreover, the discussion on road hierarchy provided valuable insights into the different classifications of roads and their unique characteristics. Understanding the nuances of road design standards enables us to better anticipate traffic dynamics and make informed decisions while on the move.

One of the most impactful segments of the training revolved around the



concept of being a Good Samaritan. Learning about our responsibilities and legal protections when offering assistance at accident sites highlighted the importance of compassion and swift action in potentially life-saving situations.

The session also underscored the critical significance of the "Golden Hour" following an accident. Armed with knowledge about the importance of prompt medical attention during this crucial window, we are better prepared to act decisively and potentially save lives in emergency situations.

Furthermore, acquiring basic first aid skills was empowering, as it equips us with the ability to provide immediate assistance in various emergency scenarios. From CPR to removing helmet safely, these skills are invaluable in preserving life and minimizing the impact of injuries until professional help arrives.

We extend our sincere gratitude to Prabhaav Foundation for their dedication and expertise in delivering such a comprehensive and impactful training program. As we reflect on this enriching experience, let us not only apply the knowledge gained within our organization but also strive to be ambassadors of road safety in our communities. Together, let us make a lasting impact and contribute to creating safer roads for all.



**DRIVE  
SAFE!**

**Two Wheeler is for Two...not for Too Many**

Initiative by  IRF (India Chapter)



## India built around 92,000 km of national highways in last 9.5 years: Anurag Jain

PNS ■ NEW DELHI

The Ministry of Road and Transport Highways (MoRTH) has built around 92,000 km of national highways in the last nine and a half years and by the end of the next month, it will touch 95,000 km, it's Secretary Anurag Jain said on Thursday. Addressing an event organised by the International Road Federation (IRF), Jain said the use of latest technologies, including Artificial Intelligence, has helped the ministry revolutionise plan-



ning and developing vision-based transport models for the future. The high speed corridors are being built for the next 50 years, keeping in mind the prospective congestion and

the needs of the increasing population, he added.

Jain also said the ministry has identified most black spots on the national highways in the country and most of them will be covered up by the end of March 2025.

IRF President Anurag Benazzou said the role of infrastructure planners, designers and contractors is changing fast and they need to be able to embrace new technologies, digital tools, and Intelligent Transport systems (ITS).

## NH construction set to touch 95,000km in 10 yrs

New Delhi: Just ahead of Lok Sabha elections, national highway (NH) construction is set to touch 95,000 km in 10 years of Narendra Modi gov't, translating to 26 km per day, reports Dipak Dash.

The Modi gov't has showcased rapid growth of NH network and fast pace of construction as a strong indicator of big infrastructure boost the country has got in its watch. BJP has maintained that the push to highway development started during Atal Bihari Vajpayee gov't when Golden Quadrilateral was launched. "Since 2014, we have crossed building 92,000 km of NHs

and we still have a month left. By March end, it will touch 95,000 km," Union road transport and highways secretary Anurag Jain said on Thursday while addressing a conference of International Road Federation (IRF).

"Now we have gone a step ahead and are planning our infrastructure development using PM GatiShakti Master Plan. While planning next phase of NHs and expressways, we have used data of GSTN way bills, toll collection across stretches and taken into account how congestion will happen on different stretches in every five year," the secretary said.

## India has built around 92,000 KM National Highways in last Nine and half years



Ahmedabad, Union Ministry of Road and Transport Highways (MoRTH) has in the last Nine and a Half year built around 92,000 Km of National Highways and by the end of next month March 2024 it will touch 95,000 Km.

"Earlier the Ministry of road had project approach for construction of National Highways followed by corridor approach and now with help of integrated planning and synchronised implementation for multimodal and last mile connectivity under the PM Gati Shakti platform which helped breaking the silos we are focusing on High Speed corridors with vision of next 30 years" said Mr Anurag Jain, Secretary, Union Ministry of Road Transport and Highways (MoRTH) while inaugurating a Two-day conference and exhibition "Revolutionizing road infra with modern equipment, technologies, sustainable material and policy guidelines" organised by the International Road Federation (IRF). "Use of the latest technologies including GIS, Toll collection, Artificial Intelligence and with everyday coordination with civil aviation, railways and various other concerned departments has helped us revolutionise planning and developing vision based transport models for the future. The high speed corridors are being built for the next fifty years keeping in mind prospective congestion

and increasing population needs. This will help avoid construction of bye passes and redoing of roads again and again" said Mr Jain. "These high speed corridors are also being constructed including value engineering at a DPR level with focus on use of sustainable technologies, raw materials and safety. The ministry has identified most of black spots on the National Highways in the country and most of them will be covered up by the end of March 2025.

## India has built around 92,000 KM National Highways in last Nine and half years: Anurag Jain, Secretary MoRTH

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"The role of infrastructure planners, designers and contractors is changing fast and they need to be able to embrace new technologies as they emerge including digital tools and Intelligent Transport systems (ITS). Countries around the world and lending institutions will need to have the proper processes and regulatory frameworks in place and infrastructure providers will need to ensure that they have the skills, knowledge and systems in place to build the associated sus-

tainable infrastructure," said Mr Anurag Benazzou, President International Road Federation (IRF) while speaking on the occasion.

"The participating experts are expected to present papers on promoting environment-friendly technologies and materials in road construction. The need for efficient and sustainable road infrastructure has become more crucial than ever in the present day. The demand for well-designed and well-maintained roads has increased tremendously. To meet the rapidly growing population & expanding urbanization, it is imperative to revolutionize road infrastructure development by incorporating modern equipment, cutting-edge technologies, sustainable materials, and comprehensive policy guidelines." Said Mr K K Kapila, President Emeritus, International Road Federation (IRF).

"The integration of cutting-edge technologies is essential in revolutionizing road infrastructure. Technologies like Geographic Informa-

tion Systems (GIS), Building Information Modelling, and AI can provide planning, implementation and management of real-time data and insights, enabling better planning, design, and maintenance of roads. The sustainable alternatives like recycled materials, bio-based binders, and permeable pavements, can not only contribute to a greener future but also provide cost-effective solutions in the long run." Said Mr Lt Gen Harpal Singh (ret'd) President, IRF-India chapter. Two day conference to discuss latest technologies and designs of road construction across the world. The aim is to discuss the technologies that are best and sustainable along with safety of vehicles on roads will also be discussed. About 300 delegates and 20 road infrastructure related construction companies will be participating and showcasing Some of this equipment including motor graders, road rollers, asphalt mixing plant, forklift trucks, crawler excavators, cranes, wheel loaders, etc.

## MoRTH built around 92,000 km national highways in last 9.5 years: Secretary Jain

New Delhi: The Ministry of Road and Transport Highways (MoRTH) has built around 92,000 km of national highways in the last nine and a half years and by the end of the next month, it will touch 95,000 km, it's Secretary Anurag Jain said on Thursday. Addressing an event organised by the International Road Federation (IRF), Jain said the use of latest technologies, including Artificial Intelligence, has helped the ministry revolutionise planning and developing vision-based transport models for the future.



The high speed corridors are being built for the next 50 years, keeping in mind the prospective congestion and the needs of the increasing population, he added. Jain also said the ministry has identified most black spots on the



national highways in the country and most of them will be covered up by the end of March 2025. IRF President Anurag Benazzou said the role of infrastructure planners, designers and contractors is changing fast and they need to be able to embrace new technologies, digital tools, and Intelligent Transport systems (ITS).

"The integration of cutting-edge technologies is essential in revolutionizing road infrastructure. Technologies like Geographic Information Systems (GIS), Building Information Modelling, and AI can provide planning, implementation and management of real-time data and insights, enabling better planning, design, and maintenance of roads. The sustainable alternatives like recycled materials, bio-based binders, and permeable pavements, can not only contribute to a greener future but also provide cost-effective solutions in the long run." Said Mr Lt Gen Harpal Singh (ret'd) President, IRF-India chapter. Two day conference to discuss latest technologies and designs of road construction across the world. The aim is to discuss the technologies that are best and sustainable along with safety of vehicles on roads will also be discussed.

<https://www.devdiscourse.com/article/technology/2844333-india-built-around-92000-km-national-highways-in-last-95-years-jain>

<https://www.newsdrum.in/business/india-built-around-92000-km-national-highways-in-last-95-years-jain-4130030>

<https://m.economictimes.com/news/economy/infrastructure/govt-has-built-95000-km-of-national-highways-in-last-10-years-road-secretary-anurag-jain/articleshow/108104576.cms>

<https://www.deccanherald.com/india/india-built-92000-kms-of-national-highway-in-last-decade-transport-secretary-anurag-jain-2915734>

<https://thefederal.com/category/business/india-built-92000-km-of-national-highways-in-last-95-years-jain-112046>

<https://www.ibc24.in/business/india-built-92000-km-of-national-highways-in-last-95-years-jain-2394277.html>

<https://www.financialexpress.com/business/roadways-morth-achieves-significant-milestone-in-last-9-5-years-india-built-around-92000-km-national-highways-details-3409523/>

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<https://www.zeebiz.com/india/news-india-built-around-92000-km-national-highways-in-last-95-years-morth-secretary-278483>

# Emerging Technologies in Road Construction at High Altitude

Narrated & edited by: Yousef Eshaghpour Rahimabadi

TL, AE, ICTAIAPL, Zojila Project

Jammu & Kashmir

India's mountainous regions pose significant obstacles for robust road infrastructure. Steep gradients, sharp turns and adverse weather conditions demand meticulous surveying, assessment and innovative solutions to build durable and reliable roads. Recognizing these challenges is important for efficient road construction in these regions.

Thorough geological studies help identify potential risks, like landslides and erosion, ensuring suitable materials and construction techniques are employed. Proper drainage systems are vital to prevent water-induced damages. Moreover, community engagement and sustainable development is necessary for local support and infrastructure conservation. By focusing on comprehensive planning, innovative engineering, and environmental considerations, hilly roads can be constructed to enhance connectivity and promote economic growth in challenging regions.

Slope and embankment protection with advanced technology are essential aspects for constructing durable infrastructure, particularly in hilly areas.

## Operation and maintenance of mountainous highways require:

- Specialized approaches, regular inspections and monitoring are essential to identify potential hazards like landslides and rock falls.
- Adequate drainage systems must be in place to manage heavy rainfall and prevent erosion.
- Snow and ice control measures are crucial during winter months.
- Maintenance crews with appropriate tools and equipment to address emergencies promptly.
- Advanced technologies, such as weather forecasting and real-time monitoring, aid in effective decision-making.
- Community involvement and awareness campaigns contribute to road preservation.

## Lists of emerging day technologies in road construction at High Altitude:

- Smart Roads & pavements fitted with Wi-Fi transmitters:
- Advance 'Micro pile or Cementaceous Sub Base (CTSB) technology'
- Use of Extruded Polystyrene Sheet (XPS) over Subgrade Layer
- Use of Flexible Concrete Interlocking Blocks pavements & Roads.
- Using eco-friendly Resins (Posses ISO 14001) like Con-Aid in its commercial name and CBR PLUS.

## Devices used in harsh climate regions:

These devices include speed sensors, acoustic sensors, IP CCTV cameras, smart traffic lights, condition/weather monitoring systems, and digital signage.

## Following advantages can be drawn by using CTSB and CTB Layers in Pavement:

- Longer Life of pavements.
- Speed of the Project Completion is accelerated.
- Reduced Use of Aggregates.
- Less local construction traffic due to fast construction.
- Transportation/haulage is reduced.
- Reduced Project Cost (approx. 15 lakhs per Km)
- Reduced thickness of pavement.
- Reduction of bitumen consumption due to strong Sub-Base.
- Aggregate consumption is less for the case of stabilized base compared to that of the conventional method.
- Uniform distribution of Load in Cement treated service road as compared to conventional road.
- Resistance against cracking and fatigue cracking.
- Best option in low lying water clogged area.



# Making mobility safer for vulnerable users in the city of Jodhpur by applying Conspicuity Tapes

Neha Madan  
Marketing Manager - S. Asia, EMEA & ASEAN  
Reflective Solutions

In a collaborative effort towards making Jodhpur a zero-accident city, Avery Dennison partnered with International Road Federation (IRF) India Chapter and AIIMS Jodhpur for the CSR initiative focused on enhancing the safety of cyclists. This initiative aimed at supplying and applying the conspicuity tape on the bicycles to enhance their visibility during daytime and especially at night time.

The city of Jodhpur which is known for its vibrant culture and bustling streets, has set its sight on becoming a beacon of road safety under the IRF's visionary zero-accident target. Acknowledging the vulnerability of cyclists on these roads, our collective endeavor aimed at applying reflective tapes to various parts of the bicycle, such as the fenders, frame, or wheels to increase their visibility and reduce the risk of accidents.

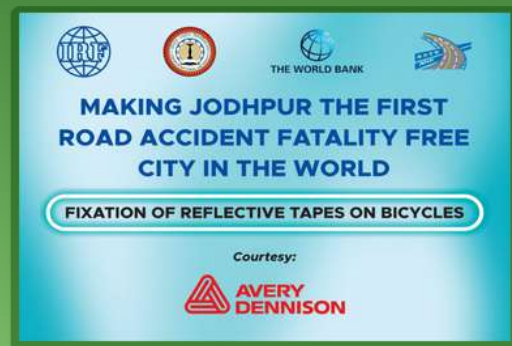
Bicyclist deaths increased by over 20 per cent to 71,000, constituting almost six per cent of all deaths worldwide. So, every third person who dies on the road is either a pedestrian or a cyclist, according to the WHO report. Globally, more than eight cyclist deaths occur per hour or over 194 per day.

Cyclists are one of the most vulnerable users of our roads. Often riding at night or in low-light conditions, their safety depends heavily on their visibility to motorists. Their safety is paramount, and through the application of conspicuity tape on their bicycles, we aim to safeguard their journeys and reduce the likelihood of accidents.

Conspicuity tapes play a pivotal role in enhancing the visibility of the cyclists. Reflective conspicuity tape from Avery Dennison is designed for easy night-time vehicle recognition and increased road safety. We have paid attention to every detail to ensure a superior product that is easy to apply and made to last.

This collaborative effort not only highlights the importance of road safety but also underscores the power of partnerships in creating meaningful change. As we continue to strive towards our shared goal of zero accidents, initiatives like these serve as shining examples of what can be achieved when organizations come together for a common cause. Together, let us pedal towards safer roads for all.

Scan here to learn more about the Avery Dennison conspicuity tapes:





Bal Bharati School is committed to nurturing well-rounded individuals, and part of this mission involves instilling a strong sense of road safety and security awareness in its students. Through a variety of engaging activities and educational opportunities, the school ensures that students are equipped with the knowledge and skills needed to navigate roads safely and responsibly.

One of the standout initiatives in this regard was the 'Walk Towards Safer Roads' activity organized by the Aware Learners Club in school. Designed for students of classes II & III, this thought-provoking event aimed to foster a culture of road safety within the school community and beyond. Through a dynamic street play, the students creatively conveyed important messages about road safety to their peers and the wider community. This was complemented by interactive quiz sessions that reinforced key safety measures and encouraged active participation.

In addition to in-house initiatives, the school recognizes the importance of utilizing external resources for comprehensive road safety education. An education trip to the Traffic Training Park in New Delhi was organised for the students wherein they engaged in hands-on activities such as driving simulations, pedestrian training, and cycling education. They also learned about traffic signals, safety demonstrations, and the dangers of distracted driving through interactive workshops and role-playing exercises.

With a dedicated Road Safety Club, the school has empowered students from grades VI to VIII to enhance their awareness and understanding of road safety principles. The club conducted a series of initiatives aimed at raising awareness and educating young minds about the importance of road safety and traffic rules. These efforts aim not only to educate but also to instill a sense of responsibility and advocacy for safer road practices among the younger generation.

**Road Safety Quiz :** The club organized an online quiz via Google Forms to assess the general awareness of road safety among its members. The quiz included questions covering topics such as traffic rules, road signs, and safety measures.

**United Nations Road Safety Week (15th May 2023 to 21st May 2023) :** During this global event, the club actively participated in promoting sustainable transport methods such as walking, cycling, and using public transport. Different activities were organized for each grade. Class VI students engaged in a slogan writing activity, emphasizing the significance of sustainable transportation methods. Meanwhile, Class VII participated in a community outreach initiative, where they raised awareness about the hazards of distracted driving, specifically discouraging the use of mobile phones while operating vehicles. In contrast, Class VIII students took part in a selfie activity promoting the usage of seatbelts and helmets. They captured selfies wearing these safety gears, which were then shared on social media platforms to advocate responsible road behaviour.

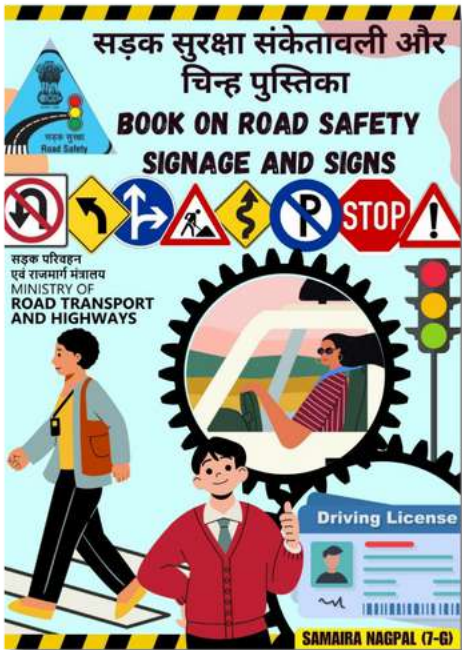
**Signs in Sight (26th July 2023 to 7th August 2023):** The students were tasked with creating miniature versions of road safety signs. Each student crafted three miniatures representing different road signs, serving as helpful learning aids to enhance their understanding of traffic signs and road regulations.

**Road to Reading (October 2023):** Students were encouraged to develop their reading skills and creativity by designing book covers for the "Book on Road Safety Signages and Signs" published by the Ministry of Road Transport and Highways, Government of India.

**National Road Safety Month (15th January 2024 – 14th February 2024) :** The club conducted various activities throughout the month, including Travel Shield - Road Ready First Aid Challenge, Road Reel Challenge – A Movie Ad Making Competition, Safetunes- Symphony - Road Jingle Jam and Run for Road Safety event, promoting physical activity while raising awareness about road safety.

By providing such holistic education, Bal Bharati School empowers students to become responsible citizens who prioritize safety on the roads. Through a combination of theoretical knowledge and practical experience, students graduate with the confidence and competence to navigate roads safely, contributing to a safer environment for themselves and others.





Together we can save millions of lives! **MAKE ROADS SAFE**



# What Chanakya Says...

## Rampant Encroachments of Pedestrian Facilities Leave Them Highly Vulnerable

Pedestrian facilities are the sidewalks or footpaths alongside the road, pedestrian cross-walks, cycle lane or cycle track, etc. Mostly these are understood to be as the facilities for non-motorised modes of travel only. While there are established standards from Indian Roads Congress (IRC) for design and construction of all such facilities, most of the time the standards are not followed simply to fit to the existing or available space. Where the standards are followed to provide generous pedestrian facilities, these are also encroached by vendors, motorised traffic, and even the residents. So much so, the government agencies (like utility and police departments) also encroach the legitimately provided footpaths and other such facilities for pedestrians.



A large number of such facilities are not constructed nor maintained in usable conditions, as these are not provided as clean and usable facilities. Often it appears that the concerned authorities like Urban Local Bodies (ULBs) have created the facility just to show the expenditure for specific head of account, just for ticking the box, and not at all for a purposeful development or creation of usable infrastructure. For example, the tactile paving is done on a footpath for visually impaired disabled persons. But, the way such tactile paving are done, no visually impaired person will be able to use the facility safely, and the isolated and non-coherent development of such facilities for disabled persons do not serve any purpose. These are highly hazardous with poles or trees obstructing the footpath frequently or open drain or vertical drop on the sides, and cannot be used safely by disabled persons, as shown in the figures.





In addition, most often the utility departments find the footpath as the most suitable location for their installations taking away the part or even the whole footpath forcing the pedestrians to use the carriageway with motorised traffic. There is deliberate and systematic encroachment of pedestrian facilities by the utility and police departments to create their infrastructure. The photographs show police booth constructed covering whole footpath, pipeline on footpath provided on a canal bridge, as well as traffic monitoring camera or high mast light pole, all are provided on footpath without any concern for inconvenience caused to the pedestrians. In addition, a large number of cases of very careless planning, design and implementation of pedestrian facilities can be found everywhere. All these have resulted in pedestrian fatalities of 32,862 in 2022 out of a total of 168,491 in the country due to road crashes, which is a whopping 19.5% in addition to similar huge number of injuries.



No doubt, the pedestrians need to be sensitized for use of footpaths and to be disciplined; but that alone will not solve the problem. There is an equally important task of sensitizing or actually building capacity in the planners, designers, policy makers for a complete change in their planning/design skills as well as the policy and philosophy in favour of providing legitimate pedestrian facilities. The outlook and commitment of the Road Authorities and ULBs towards provision of pedestrian facilities must be changed. National standards for planning, design and implementation of facilities for pedestrians be strictly followed, while enforcement of road traffic rules be uniform for all modes including the pedestrians. Thus for ensuring safety, the enforcement skills and capacity must be enhanced using technologies for legitimate enforcement on pedestrian as well.

Overloaded vehicles are accident - prone. **Respect Load Limits !!**  
Initiative by IRF (India Chapter)



# Interesting Facts and Emerging Trends

## Safety Norms For Kids In Japan 🇯🇵



In Japan, it is common for school children to use a specific hand signal when crossing the road to alert drivers and ensure their safety. The hand signal typically involves extending one arm straight out to the side, palm facing outward, to indicate to drivers that they intend to cross the road.

Drivers in Japan are generally accustomed to being attentive to pedestrians, especially in areas where children are likely to be present, such as near schools and residential areas. Adhering to traffic rules and being mindful of pedestrians, especially schoolchildren, is a priority for ensuring road safety in Japan.



## AI in Safer Roads & Safer Mobility



**Akhilesh Srivastava**  
Road Safety Ambassador-IRF

India has a crack on every second road, but Dubai has close to none! What has made it possible? - Artificial Intelligence. Dubai uses a laser technology, fixed on top of patrolling cars which spot the cracks, in order to fix these roads. The vehicle also possesses a high-resolution camera that examines the roads and instantly scans for defects. The camera then displays the footage on the driver's dashboard to monitor the road. When the driver observes the road defects, he can make his way towards the safer side. This technology is so efficient that it can scan defects as small as 1mm on the roads, collecting data like crack width, depth and location. It also helps the authorities make an accurate virtual map of Dubai roads with an accuracy of 97%. This data is helpful for the Dubai Road and Transport Authority (RTA) in rectifying defects. This year, the technologies to the ability to detect 13 defect types will help fix close to 168 kilometers of roads in the country. Moreover, its ability to detect 13 defect types will also help to fix 168 km of roads this year, which is double the number of Kilometers fixed last year. This laser technology is a remarkable innovation that has transformed the long process of checking and fixing defects. Dubai is on the right track to improve its roads and revolutionize safety. Do you think it is time for India to adopt such technologies as well?





## "Look Within"

Who're you?  
What're you doing on this planet?

The most pertinent and crucial questions  
you must ask yourself every morning:  
Am I doing what I was supposed to do?  
This equips you to 'Look within'.

You'll know your strengths and weaknesses.



**Prof. S. Gogia**



**Be a Good Citizen - Do Not Cross Speed Limits**

Initiative by  IRF (India Chapter)



# UPCOMING EVENTS

2024

## International Road Federation - India Chapter

### Lecture Series

<i>Modern Method of Crash Data Collection and Management including iRAD &amp; eDAR in India</i>	25th April
<i>Accident Investigation &amp; Crash Data Analysis – To Answer Who is Responsible.</i>	31st May
<i>What is Wrong in Legal System of Road Safety (Accident) Adjudication – There is no Means to Prove Innocence?</i>	28th June

### Webinar Series

<i>Smart &amp; Intelligent Equipment for Modern and Top Quality Infrastructure Developments</i>	16th May
<i>Sustainable Development of Infrastructure Using Low Carbon Cement Concrete Construction</i>	13th Jun
<i>Use of Steel for Sustainable Infrastructure Development</i>	11th July

For more information about Lecture Series and Webinar Series Please [Click Here](#)

## International Road Federation - Geneva

May 5 -  
May 7

### Certified Training Course: Safe Urban Street Design for Vulnerable Road User Safety

The International Road Federation (IRF), together with the Qatar Transportation and Traffic Safety Centre (Qatar University) and Traffic Tech are pleased to invite you to this professional course "Safe Urban Street Design for Vulnerable Road User Safety" taking place on 5-7 May 2024 at Qatar University (Doha, Qatar).

FOR MORE INFO.: [Click Here](#) 



June 26 -  
June 29

**World Transport Convention 2024 (WTC)**  
*The International Road Federation (IRF) is pleased to support the World Transport Convention 2024 (WTC 2024) is scheduled to be held in Qingdao, Shandong Province on 26 – 29 June 2024.*  
**FOR MORE INFO.: [Click Here](#)**



July 8 –  
July 11

**42nd Annual Southern African Transport Conference 2024**  
*The International Road Federation (IRF) is pleased to support – together with the South African Department of Transport – the 41st Annual Southern African Transport Conference (SATC 2024) to be hosted on 8-11 July 2024 at the CSIR International Convention Centre in Pretoria, South Africa.*  
**FOR MORE INFO.: [Click Here](#)**



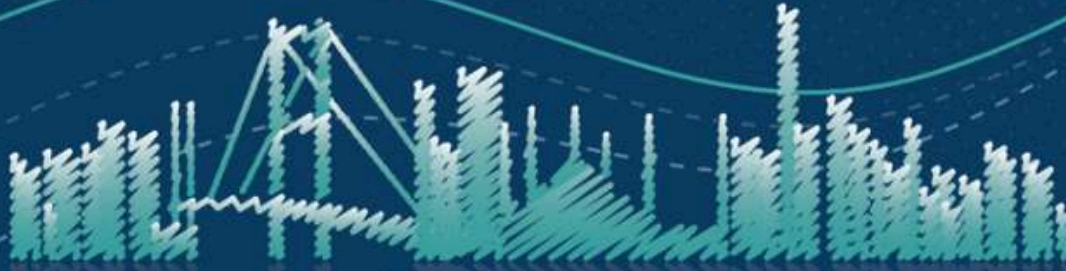
Sep 16 -  
Sep 20

**ITS World Congress 2024**  
*Organised by ERTICO, the congress itself is a beacon for the latest in smart mobility, drawing experts, policymakers, and industry leaders together to explore cutting-edge technologies and strategies for intelligent transportation.*  
**FOR MORE INFO.: [Click Here](#)**



# ISTANBUL

Türkiye



## About the IRF World Congress 2024

Istanbul – the city on two continents – will be hosting the **IRF World Congress** on **15-18 October 2024**. Held every four years, the IRF World Congress has represented – for almost seven decades – an opportunity to celebrate the road and mobility sectors as enablers of growth and development.

Embracing the theme **“Connecting to Empower Mobility: Roads as Enablers of a Sustainable Future for All”**, the congress will serve as a platform for global leaders, industry experts, academia, and diverse public and private stakeholders to engage in insightful discussions and collaborative efforts, addressing pivotal issues and exploring innovations within the road and mobility sectors.

**“The chosen theme reflects our dedication to envisioning a future where roads serve as pathways to empower mobility in all its forms – whether on foot, on a bicycle, on public transport or a motor vehicle, in urban or rural areas – thus connecting communities and fostering sustainable development on a global scale”**, emphasises IRF President, Mr Anouar Benazzouz. **“The IRF World Congress 2024 will be an inspiring journey on how to pave the way for a future where roads are part of a transportation system that unites, empowers, and provides access to opportunities to all”**, he added.

The mysticism of the East and the modernity of the West, the constant time travel between the past and the future, the balance of the traditional and the modern.

***This is Istanbul. This is Türkiye.***

For more info. kindly visit the website :

<https://irfnet.ch/event/irf-world-congress-2024/>



Click on the  
Youtube Icon to  
watch the video



**IRF-IC ACTIVITY CALENDAR 2024-25**

Activities	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
<b>Webinar Series on Sustainable Infrastructure Development</b>	Availability of Quality Construction Equipment for Quality Roads & Bridges _Road and Bridge construction equipment, which can make major enhancement in the quality of outputs	Smart & Intelligent Equipment for Modern and Top Quality Infrastructure Developments _In what way the smart and intelligent equipment can assist in realising the quality in modern infrastructures	Sustainable Development of Infrastructure Using Low Carbon Cement Concrete Construction _How the low carbon or no-carbon strategy in concrete can be pursued, concrete being the mostly used construction material	Use of Steel for Sustainable Infrastructure Development _How can we change the high embedded energy status of steel for sustainable infrastructure with all possible options	Sustainable Alternative Industrial Waste Materials for Infrastructure Development _What all industrial wastes having merits and availability to change the ecosystem of infrastructure developments	New Age and Perpetual Pavement for Performance and Economy _Technology and design methods for eliminating requirements of routine and periodic maintenance of road pavements	Stabilisation in Road Construction – Performance & Economy _Oldest method of pavement quality enhancement still not used routinely; how can this be changed for all future works	Revolution in Infrastructure Development by 3D Concrete Printing _Penetration of this revolution is insignificant so far; how to overcome the limitations and make it for routine adoption	Sustainable Infrastructure Development with Low Carbon Strategy Aiming to Net Zero _What is truly Net-Zero in terms of its dimensions, and how to reach there faster and making what efforts	Future of Infrastructure Development Using Innovative Technologies/Tools _Hi-tech methods of managing construction using AI, BIM, DT for optimizing on every front for best quality and economy	Capacity Augmentation & Service Life Enhancement of Bridges _Managing assets for maximizing service life and serviceability demands innovative and modern technologies	Asset Management for Roads and Bridges _Every asset be managed for maintenance management using modern tools and techniques
<b>Road Safety Lecture Series</b>	Modern Method of Crash Data Collection and Management including iRAD & eDAR in India	Accident Investigation & Crash Data Analysis – To Answer Who is Responsible	What is Wrong in Legal System of Road Safety (Accident) Adjudication – There is no Means to Prove Innocence?	ITS Policy in India and Specification for ATMS for Sustainable Enforcement in Primary Network	Adoption of Technologies for Better Traffic Management and Road Safety – How and What?	Research & Development Needs of Autonomous Vehicle Technologies in India – Its Practicality in India	Evaluation of Safety Performance of Road Infrastructure by Surrogate Measures	Something must Change for Better Road Safety Management in India – It is going from Bad to Worse!	Assessment and Management of Road Safety in the School Zone – Who is Responsible?	Traffic Enforcement in India – Why it is a Total Failure?	Safety of Motorised Two-Wheelers in India – How to Tackle it through Road & Vehicle Design Options?	What is a Totally Correct and Standard Emergency Response System with All its Components?
<b>Trauma victim Rehabilitation Center with John Hopkins</b>	←					<b>Ongoing</b>						→
<b>World Road Statistics 2023</b>		←						→				
<b>IRF-IC Year Book 2024</b>	←											
<b>Annual Conference</b>										End of Jan.		
<b>Regional Conferences (3)</b>			Ahmedabad				Guwahati					Mumbai

**IRF-IC LECTURE SERIES IN 2024-25**

**Road Safety Lecture Series during 2024-25**

These Lecture Sessions will be for 90 minutes only. The two presenter(s) will be given 25-30 minutes each to present the details in a very elaborate manner, and then there will be Q&A session for 20 minutes. Everything will be done without a rush. There will be introduction at the beginning and Vote of Thanks at the end, which will consume the remaining 10 minutes.

Sl. No.	Topic of Lecture	Possible Speaker(s)	Date of Lecture
1.	Modern Method of Crash Data Collection and Management including iRAD & eDAR in India	Prof. P K Sikdar _ about modern methods Mr. Joydeep Shome, NIC _on iRAD and eDAR	25 <sup>th</sup> Apr.
2.	Accident Investigation & Crash Data Analysis – To Answer Who is Responsible.	Mr. Tony Mathew, TRL (India) _crash data analysis Speaker from JPRI _ accident investigation	31 <sup>st</sup> May
3.	What is Wrong in Legal System of Road Safety (Accident) Adjudication – There is no Means to Prove Innocence?	Dr. Rohit Baluja _ What is the weakness   various clauses/provisions Dr. Arun Mohan _ Is there way to fix responsibility	28 <sup>th</sup> Jun.
4.	ITS Policy in India and Specification for ATMS for Sustainable Enforcement in Primary Network	Mr. Akhilesh Srivastava _will advise someone for policy matters from NITI Aayog Mr. Dhaval Desai _for required ATMS Specs	26 <sup>th</sup> Jul.
5.	Adoption of Technologies for Better Traffic Management and Road Safety – How and What ?	Dr. S. Velmurugan, CRRI _various adoptable technologies for traffic management Some technically qualified DGP from South India (say Kerala/Karnataka) to say practicability	30 <sup>th</sup> Aug.
6.	Research & Development Needs of Autonomous Vehicle Technologies in India – Its Practicality in India	Dr. Rajalakshmi P, IIT Hyderabad _on autonomous vehicle developments & operation with Indian scenario of network/discipline A Major OEM, who is very critical about autonomous vehicles	27 <sup>th</sup> Sep.
7.	Evaluation of Safety Performance of Road Infrastructure by Surrogate Measures	Dr. S. S. Puwar, Gawar _on his own research Someone expert on other options of surrogate measures to assess network safety	25 <sup>th</sup> Oct.
8.	Something must Change for Better Road Safety Management in India – It is going from Bad to Worse !	Prof. M. Parida _on what are the reasons safety is not improving in India Speaker from NITI Aayog _critical options and how to adopt those	29 <sup>th</sup> Nov.
9.	Assessment and Management of Road Safety in the School Zone – Who is Responsible ?	Prof. M. Parida _the new IRC Code, aim, and what is still not addressed by the code Mr. Akhilesh Srivastava _who and how the systematic effort can be implemented for better safety for children	27 <sup>th</sup> Dec.
10.	Traffic Enforcement in India – Why it is a Total Failure ?	Mr. Taj Hassan _personal experience on the failure scenario with reasons A Serious Critic of police method of traffic rule enforcement, which is insignificant anyway	TBA
11.	Safety of Motorised Two-Wheelers in India – How to Tackle it through Road & Vehicle Design Options ?	Speaker from Hero Motor Corp./Bajaj _to elaborate all the safety measures provided by OEMs in two-wheelers Speaker (Road Research) _to suggest how design and traffic control/management can alleviate the situation	TBA
12.	What is a Totally Correct and Standard Emergency Response System with All its Components ?	Prof. Amit Gupta, AIIMS _to say about everything that is ideal from happening of accident to OT in Trauma Care centre to save life & disabilities One rehabilitated victim of a crash _real-life details of trauma and what all can be improved	TBA

**IRF-IC WEBINAR SERIES IN 2024-25**

**Webinar Series during 2024-25 (Sustainable Infrastructure Development)**

These webinars will be for total period of 60 minutes only. The two presenter(s) will be given 18-20 minutes each to present the details in a very elaborate manner, and then there will be Q&A session for 15 minutes. Everything will be done without a rush. There will be introduction at the beginning and Vote of Thanks at the end, which will consume the remaining 5 minutes.

<b>Sl. No.</b>	<b>Tentative Topics of Webinar</b>	<b>Possible Speaker(s)</b>	<b>Date of Webinar</b>
1.	Availability of Quality Construction Equipment for Quality Roads & Bridges <i>_Road and Bridge construction equipment, which can make major enhancement in the quality of outputs</i>	Mr Satin Sachdeva, CERA Speaker from TATA HITACHI	11 <sup>th</sup> Apr.
2.	Smart & Intelligent Equipment for Modern and Top Quality Infrastructure Developments <i>_In what way the smart and intelligent equipment can assist in realising the quality in modern infrastructures</i>	Speaker from AMMAN Speaker from Trimble	16 <sup>th</sup> May
3.	Sustainable Development of Infrastructure Using Low Carbon Cement Concrete Construction <i>_How the low carbon or no-carbon strategy in concrete can be pursued, concrete being the mostly used construction material</i>	Prof. Shashank Bishnoi, IIT Delhi Dr. Harshavardhan Subbarao / Mr. Alok Bhowmick	13 <sup>th</sup> Jun
4.	Use of Steel for Sustainable Infrastructure Development <i>_How can we change the high embedded energy status of steel for sustainable infrastructure with all possible options</i>	Prof. Mahendrakumar Madhavan, IIT Hyderabad Mr. Alok Sahay, Secretary General, Indian Steel Association	11 <sup>th</sup> Jul.
5.	Sustainable Alternative Industrial Waste Materials for Infrastructure Development <i>_What all industrial wastes having merits and availability to change the ecosystem of infrastructure developments</i>	Mr. Guru Vittal / Dr. Vasant Havanagi, CRRRI Prof (Dr.) Bhupendra Singh, IIT Jodhpur / associating person from Kansas University)	9 <sup>th</sup> Aug.
6.	New Age and Perpetual Pavement for Performance and Economy <i>_Technology and design methods for eliminating requirements of routine and periodic maintenance of road pavements</i>	Ms. Atasi Das, GR Infra (Prof. A. Veeraragavan to suggest a name)	12 <sup>th</sup> Sep.
7.	Stabilisation in Road Construction – Performance & Economy <i>_Oldest method of pavement quality enhancement still not used routinely; how can this be changed for all future works</i>	Speaker from Zydex Industries Speaker from CUBE Highways (Dr. Hari Kishan Reddy to suggest the name of the Speaker)	16 <sup>th</sup> Oct.
8.	Revolution in Infrastructure Development by 3D Concrete Printing <i>_Penetration of this revolution is insignificant so far; how to overcome the limitations and make it for routine adoption</i>	Prof. Biranchi Panda (Dr. Panda to suggest an Industry Speaker)	13 <sup>th</sup> Nov.
9.	Sustainable Infrastructure Development with Low Carbon Strategy Aiming to Net Zero <i>_What is truly Net-Zero in terms of its dimensions; and how to reach there faster and making what efforts</i>	Mr. V. N. Heggade Ms. Tamosi Bhattacharya	12 <sup>th</sup> Dec.
10.	Future of Infrastructure Development Using Innovative Technologies/Tools <i>_Hi-tech methods of managing construction using AI, BIM, DT for optimizing on every front for best quality and economy</i>	Speakers from areas of AI, Drone, BIM/Digital Twin (TCS)	TBA
11.	Capacity Augmentation & Service Life Enhancement of Bridges <i>_Managing assets for maximizing service life and serviceability demands innovative and modern technologies</i>	Dr Anandavalli N, CSIR- SERC Dr. Gopal Rai, DGC	TBA
12.	Asset Management for Roads and Bridges <i>_Every asset be managed for maintenance management using modern tools and techniques</i>	Dr. Narayan Chandra Pal (E-in-C), Odisha Speaker from LASA on actual RAMS development	TBA



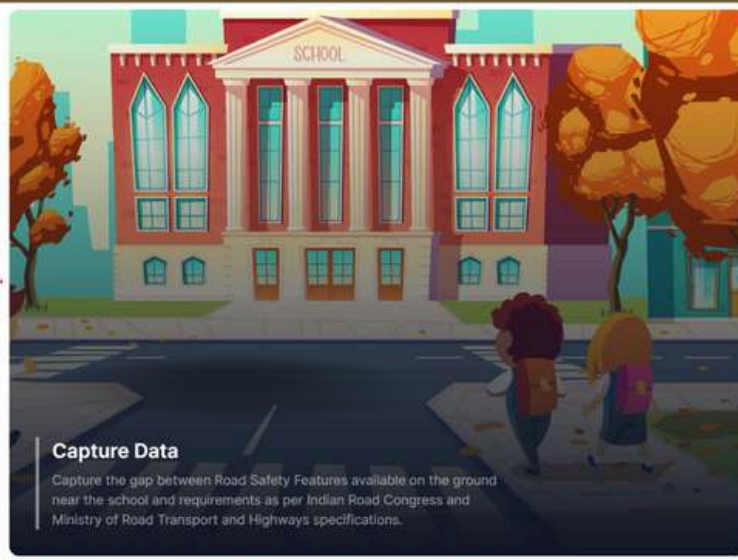
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## We Are Enrolling

Recently, IRF-IC launched a School Zone Safety Programme, which follows the guidelines outlined in the IRC:SP:32 for fostering a culture of safety in school zone and conducting capacity-building of school zone road safety auditors. IRF-IC has also developed a [School Zone Safety Portal](#) that will bring Visibility about the School Zone Road Safety status in the public domain so that parents/citizens can see how safe the schools are, thereby paving the way for improvements in safety around the schools.

To Join

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## Members Suggestions

IRF-IC would like to receive your suggestions and ideas for improvement in the Newsletter and our activities.



IRF-IC Newsletter intends to reach a wide audience in India. We, therefore seek to project & showcase activities of all our honorable Members. Your contributions in the form of brief reports of your activities, events, awards, brief articles and other accomplishments are invited in the next issue of the Newsletter.



# Trending In The Social Media

@DelhiPolice never fails to leave any trend on social media ! 😊  
The Unique way to guide public to follow the rules .. 😊



## Road Safety Quiz

How well do you know about Road Safety?

Please click on the link below

Click

Play Quiz

AND WIN EXCITING PRIZES!!

The first 3 winners photographs will be published on our next newsletter.





## JOIN OUR 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.

For Membership Details: [Click Here](#)



IRF-IC Newsletter intends to reach a wide audience in India. We, therefore seek to project & showcase activities of all our honorable Members. Your contributions in the form of brief reports of your activities, events, awards, brief articles and other accomplishments are invited.

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Next Newsletter will be released between the last week of July and first week of August.

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Designed by: Ms. Shubhangi Negi

We welcome Road Safety articles, interesting snippets & the work done by your organization in your domain.

Reviews are really important to us. We'd love to hear about your experience.

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