



# ANNUAL REPORT

2024

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# ***IRF-IC Conference on “Vision Zero : Targeting Road Safety by 5Es with Innovative Technologies***

***JANUARY 24, 2024***

IRF India Chapter organized a Conference titled “Vision Zero : Targeting Road Safety by 5Es with Innovative Technologies” on 24<sup>th</sup> January 2024 from 02:30 pm – 07:30 pm as part of the Observance of Road Safety Month 2024. The Conference was supported by the Ministry of Road Transport & Highways and Sponsored by Maruti Suzuki India Ltd.

The Conference was graced by the Hon'ble Minister, MoRT&H, Shri. Nitin J. Gadkari Ji, Shri. Anurag Jain, IAS, Secretary (RT&H), Shri. Sudhendju J. Sinha, Advisor, Niti Aayog and distinguished Speakers from the Government and the Industry. The Conference was divided into:-

- Inaugural Session
- Technical Session – 1
- Technical Session – 2
- Session with the Chief Guest, Hon'ble Minister, MoRT&H

Key highlights of the event are as under:-

At the Inaugural session, IRF president emeritus K K Kapila said promoting a safe transportation system required a holistic approach including engineering of roads, engineering of vehicles, enforcement, education and emergency care.

In his Keynote Address at the Inaugural Session, Mr. Anurag Jain, IAS, Secretary, MoRT&H said road safety audit of all national highways (NHs) in the country will be achieved soon and the ministry plans to launch zero complaint for road maintenance, making all highways fully maintained by the authorities concerned. He further said about 4,000 black spots have been rectified in the last three years. “At present, more than 9,000 black spots have been identified... The ministry has set a challenging target of March 2025 to rectify all black spots in the country,” he said. The linked authorities will be held responsible for pot holes and poor maintenance of roads soon and make them accountable, he added. He informed that across the nation very soon, MoRTH was planning to introduce cashless medical treatment for all injured accident victims.

In his address, the Hon'ble Minister (RT&H) informed that the Ministry will soon be adopting qualitative tendering process instead of least cost bidding process to bring in quality and road safety in various projects as qualitative tendering will help incorporating safer road safety features in designs keeping in mind the behavior of the road users. He mentioned that “there have been several cases where officers in the Ministry have down away with safety features in highway projects to bring down costs and in the name of making them financially viable. Road engineering is the biggest culprit for increasing road accidents in the country. Recently road safety audit was done of seven roads in the country about 57 engineering shortcomings were found on Pune-Mumbai expressway alone and 25-28 percent engineering defects on other roads. After rectification of 57 faults on Pune-Mumbai expressway the accident rate has almost come down to zero” said Mr. Gadkari.

For more information, please visit our website <https://indiairf.com/irf-india-events/irf-ic-conference-on-vision-zero-targeting-road-safety-by-5es-with-innovative-technologies/>

# **National Conference-cum-exhibition on “REVOLUTIONIZING ROAD INFRA WITH MODERN EQUIPMENT, TECHNOLOGIES, SUSTAINABLE MATERIAL AND POLICY GUIDELINES**

**FEBRUARY 29 - MARCH 1, 2024**

IRF India Chapter organized a National Conference-cum-Exhibition on “Revolutionizing Road Infra With Modern Equipment, Technologies, Sustainable Material and Policy Guidelines” from 29<sup>th</sup> February – 1<sup>st</sup> March 2024 at Manekshaw Centre, New Delhi. Central Road Research Institute and Indian Roads Congress were the Knowledge Partners of the event. The Conference was inaugurated by the Secretary, MoRT&H, Mr. Anurag Jain, IAS.

The Conference had 6 Technical Sessions, Session on Start-ups & Innovative Ideas, Poster Presentations. The conference was graced by eminent experts from the Industry, Road safety professionals, Government officials, making presentations on various sub-themes during the conference.

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.

For more information, please visit our website <https://indiairf.com/irf-india-events/national-conference-cum-exhibition-on-revolutionizing-road-infra-with-modern-equipment-technologies-sustainable-material-and-policy-guidelines/>



# **IRF-IC Partners with INTERISE on NH 48 (SUTPL) Pilot Project**

IRF-IC is proud to announce its collaboration with INTERISE, our new member, on a pilot project involving the 5E Programme (Engineering of Roads, Engineering of Vehicles, Education, Enforcement, and Emergency Care) and an EHS (Environment, Health, and Safety) audit along a 79 km stretch of NH 48 (SUTPL) in Rajasthan. Our team has successfully completed both programs, and the reports have been submitted to the client.

## **Key Highlights of the Project:**

**E1: Engineering of Roads (Road Safety Audit):** As part of the **Engineering of Roads** component, a comprehensive **road safety audit** was conducted along the entire **79 km stretch** of NH 48. This audit identified potential hazards, areas for infrastructure improvement, and safety interventions to reduce accidents and improve road safety for all users



*Figure 1"Road safety audit in progress with SUTPL Audit"*

**E2: Engineering of Vehicles:** The **Engineering of Vehicles** component focused on promoting vehicle safety standards and ensuring that vehicles using the stretch are compliant with relevant regulations. We worked on raising awareness about vehicle maintenance and safety practices to ensure safer vehicles on the road.

**E3: Education:** Under the **Education** pillar, we imparted **road safety education** to **schoolchildren** in **26 schools** located within the **5 km buffer zone** of the NH 48 stretch. This initiative aimed at educating the younger generation on road safety rules, encouraging them to be ambassadors for safer roads in their communities.



*Figure 2"IRF-IC's Road Safety Education Program empowering students*



*Figure 3: Police training session on Traffic Management & Enforcement conducted by Prof. PK Sikdar.*

**E4: Enforcement:** As part of the **Enforcement** efforts, **35 police personnel** from various ranks across police stations within the **5 km buffer zone** were trained on **Traffic Management** and

Enforcement. The training, held at the **Zila Parishad Auditorium in Rajsamand**, equipped the officers with enhanced skills to enforce traffic laws more effectively and improve safety along the stretch.

**5: Emergency Care:** We also trained 213 bystanders on **first aid and basic life-saving training sessions** at both **toll plazas** and in the **villages** along the stretch. These sessions equipped local communities and toll plaza staff with essential skills to respond effectively to road accidents and medical emergencies. In addition, we enumerated 9 hospitals in the area to assess existing infrastructure and identify gaps in emergency care facilities.



*Figure 4: First aid trauma care training to Toll Plaza staff*

**EHS Audit:** A comprehensive **EHS audit** was carried out at **two toll plazas** and a **plant** along the stretch, focusing on environmental compliance, health and safety practices. The audit identified key areas for improvement, ensuring a safer and more sustainable operation along NH 48.



*Figure 5: Verifying documents as part of EHS Audit*

Through these efforts, IRF-IC has contributed to improving road safety, traffic enforcement, emergency care, and environmental practices along the NH 48 corridor. This project underscores our commitment to enhancing road safety and sustainability across the country.

Stay tuned for more updates on IRF-IC's initiatives as we continue to collaborate with members and stakeholders to make our roads safer and more sustainable.

## ***IRF India Chapter Lecture Series 2.0 (April - October 2024)***

The IRF India Chapter launched its Lecture Series 2.0 in April 2024, aiming to promote road safety and awareness. From April to October 2024, a series of lectures were conducted on diverse topics related to safer road infrastructure, traffic management, and innovative safety technologies. The initiative engaged experts, policymakers, and stakeholders to foster knowledge-sharing and drive actionable solutions for safer roads across India.

For presentations and recording, visit <https://indiairf.com/irf-india-events/>

## ***IRF India Chapter Online Webinar Series (April - October 2024)***

The IRF India Chapter conducted a series of online webinars from April to October 2024 as part of its ongoing efforts to enhance road safety awareness. These webinars covered key topics such as road design, traffic safety, enforcement strategies, and emerging technologies. The virtual format enabled wide participation from industry professionals, academics, and government officials, contributing to informed discussions and the promotion of best practices for safer roads.

For presentations and recording, visit <https://indiairf.com/irf-india-events/>

# *IRF IC's School Zone Safety Programme*

## ***Introduction:***

Road Safety is a severe challenge in India, with over 1,80,000 people, mostly young, losing their lives every year on Indian roads. With just 1% of global vehicles, Indian roads are responsible for 22% of fatal crashes and 11% of global road fatalities. This translates to an alarming average of 1130 accidents, 422 deaths per day, or 47 accidents and 18 deaths every hour. Our Schools are also not behind. With over 15 lakh schools in India, unfortunately, school students contribute nearly 8-9% of fatalities due to poor infrastructure in the vicinity of schools. One child in India dies every 45 minutes in a road accident with 31 children losing their lives daily around 38% of children in the age group of 0 to 14 years and 64% of children in the age group of 14 to 18 years die on account of road traffic injuries. As per the accident data of the Ministry of Road Transport and Highways, there has been an increase in the fatalities of school children below 18 years of age. From 6.4 percent in 2017, it steadily rose to 6.6% in 2018 and to 7.4% in 2019. This makes school children one of the most vulnerable road users and it is necessary to protect our children while they travel to and from schools by making the School Zones as well as their travel Safer through suitable Engineering and Enforcement measures

## ***IRF India School Zone Safety Programme:***

School Zone Safety refers to the measures and precautions implemented to ensure the safety of students in and around school areas, especially during school hours. These areas are specifically designed to

help keep children safe as they travel to and from school. Key parameters like Road Markings and Traffic Signages, Pedestrian crossings, Speed-calming measures, Footpaths, etc. will be addressed. 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 near schools.

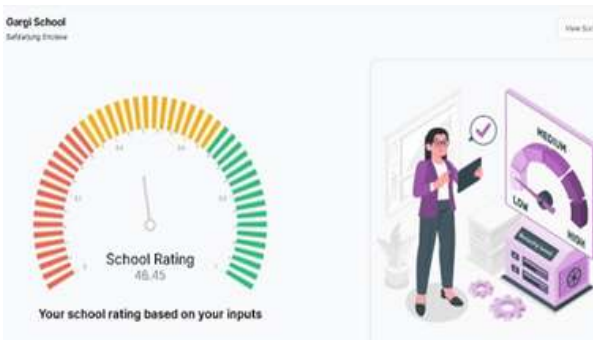
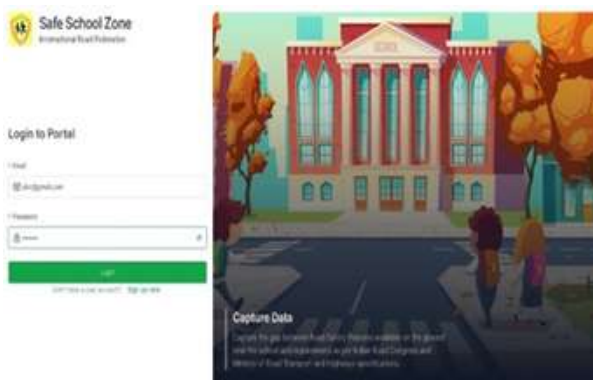
This comprehensive program employs a two-pronged approach, combining the School Zone Safety Portal and Capacity Building modules.

## ***School Zone Safety Portal:***

- The SZS Portal brings Visibility about the School Zone Road Safety status into the public domain so that parents/citizens can see how safe the schools are, and can exert pressure on the school and civil administration. Each school receives a unique login ID so they can have all the information related to the school's road safety zone. This will help the relevant departments and school administration to ensure the application of road safety zone standards.
- The School Zone Safety compliance will be ranked based on the results of the Audit/Survey with colour coding, thereby enabling parents and citizens to identify and relate them with safer infrastructure. It is envisaged that the program will also hold the Authorities accountable for improving the infrastructure surrounding School Zones. After the preliminary audit and identification of the vulnerabilities, IRF will also assist the concerned

department in carrying out a Detailed Engineering Road Safety Audit of the schools as per the severity reported and work out the appropriate estimates for rectification.

- After rectification/improvements, IRF will carry out a final Audit and report on the Web Portal with revised scores for public view, so that people can appreciate the action taken by the concerned department.



### **Capacity Building Online Course for imparting School Zone Road Safety Audit:**

The Programme will be imparted online and will consist of a total of 10 modules

- 08 theory modules are to be covered in 05 days.
- Followed by Module 09 on the demonstration of the School Zone Safety Portal, and how to upload the survey findings on SZS Portal.

- Module 10 will consist of a tutorial to undertake a field survey.
- Finally, a Physical Audit of a school chosen from a list of schools available in the SZS Portal.
- The broad contents of the certification program are as under:

1. Introduction to Road Safety Scenario, Fundamentals, Road Safety Policy, Motor Vehicle Acts
2. Traffic Control Devices and Technical Specifications
3. Road Safety Engineering
4. Traffic Calming Interventions
5. Vulnerable Road User (VRU) Safety and Road Accidents
6. Temporary (Work Zone) Traffic Management
7. Introduction to School Zone Sections, Definitions, Checklist for School Zone Safety Score (Rating)
8. Introduction to Road Safety Audit and School Zone Safety Audit Guidelines.

- The modules will be supported by Study/reference materials and at the end of each module there will be a Quiz. The trainee can move to the next module only on scoring requisite marks in the Quiz. After successful completion of the programme i.e., uploading of the survey results, the trainee will be assessed based on the performance and certified.
- The eligibility for this course is a Graduate in Science & Engineering stream. The introductory course fee is Rs. 10,000. Paid Survey opportunities in schools will be facilitated by IRF India

for students who complete the program and are certified as IRF-IC's School Zone Safety Auditors.

### Certification:

A certification on completion will be given by IRF India. This certification will validate the participants' knowledge and skills, providing them with recognition for their commitment to school zone safety. This will help in promoting road safety, creating safer school zones, and reducing the alarming rate of accidents and fatalities involving school children.

### Our Implementation: Pilot Project:

IRF-IC has been working to promote this program to the Ministry of Education. This has culminated into the Union Ministry of Education giving us pilot project to conduct school zone safety audits in 10 secondary schools across five States:

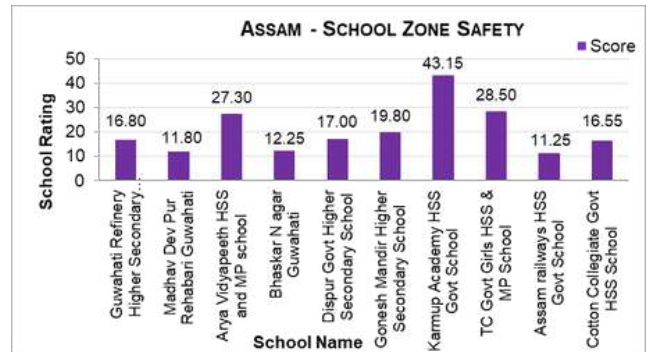
1. Assam
2. Bihar
3. Karnataka
4. Tamil Nadu
5. Uttar Pradesh

Additionally, Government of Punjab has also shown interest in our School Zone Safety Program and has requested to be included in the Pilot Program.

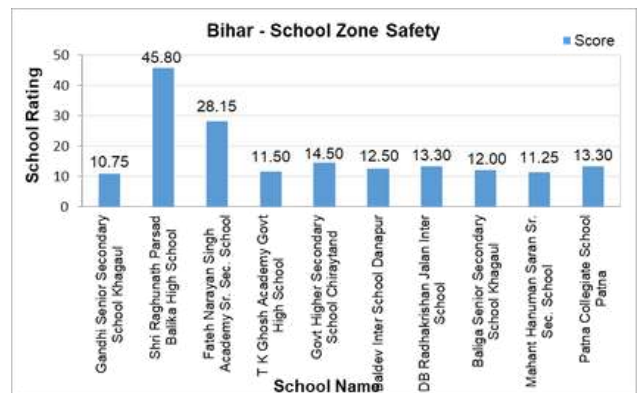
The Ministry provided a list of 1.5 lakh schools covering all the states, from which 10 schools were identified by State Authorities for the pilot project. This project is nearing completion and should be concluded by mid-September, 2024.

### The Brief Findings & Highlights of each State of the Pilot Project are as under:

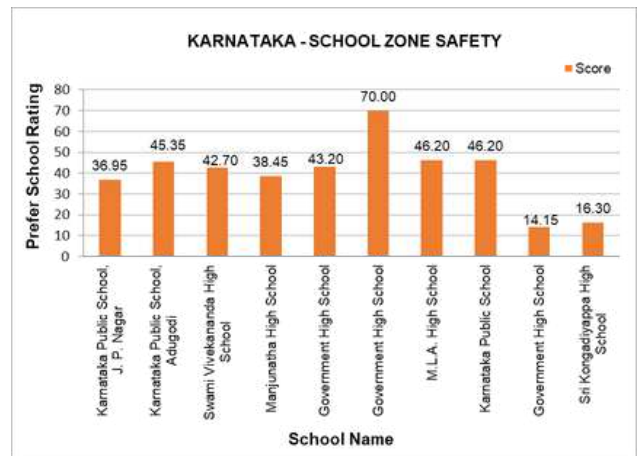
#### Assam



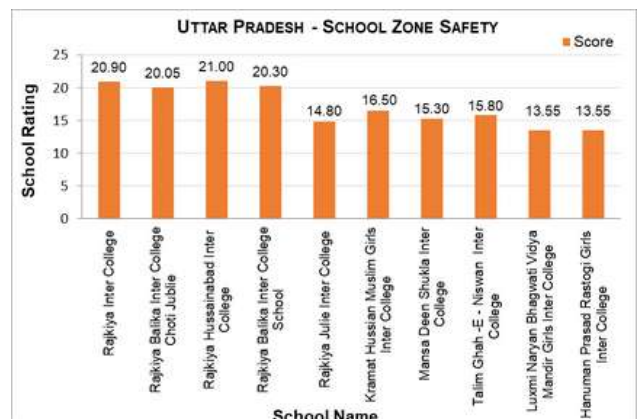
#### Bihar



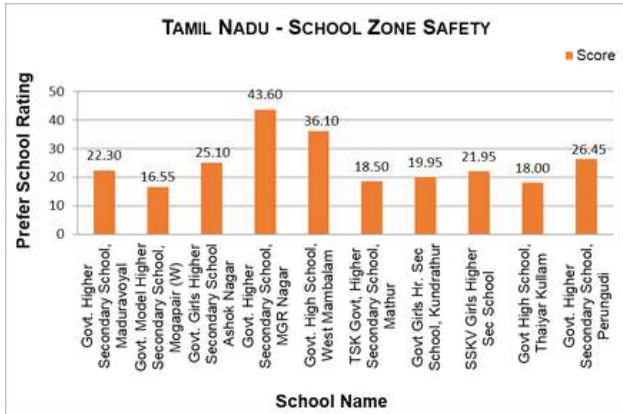
#### Karnataka



#### Uttar Pradesh



## Tamil Nadu



We are confident that the results of this pilot will pave the way for further improvements in school zone safety, and we look forward to the continued collaboration with government bodies and stakeholders to ensure safer environments for our future generations.

# ***IRF-IC collaborated with Messe Frankfurt Trade Fairs and Virtual Info Systems for TrafficInfraTech Expo 2024***

***OCTOBER 22 - 24, 2024***

International Road Federation – India Chapter (IRF-IC) in collaboration with Messe Frankfurt Trade Fairs India Pvt. Ltd. and Virtual Info Systems (MFI-VIS) organized a half day conference on “Vision Zero: Targeted Road Safety by 5Es with Innovative Technologies”. This Conference was a part of TrafficInfraTech Expo 2024, held from 22<sup>nd</sup> - 24<sup>th</sup> October 2024.

IRF-IC collaborated in this event as Knowledge Partners and organized a half-day conference on Road Safety on 22<sup>nd</sup> October.

TrafficInfra Tech Expo is the premium show in Asia creating a unique platform that converges all the latest products, technologies and solutions across the verticals of traffic management and analysis, transport systems, security, tolling, road safety etc. The expo has been successfully connecting traffic and mobility professionals from all over the globe- from solution providers to solution seekers across Government department, enforcement authorities, local urban bodies, infrastructure developers, smart city developers and project consultants



# IRF-IC Trauma Care Training Programme

IRF-IC undertook comprehensive First Aid Trauma Care Training Programme to the drivers of Maruti Suzuki (IDTRs). This initiative was designed to empower the drivers associated with Maruti Suzuki IDTR with essential first aid skills. The training covered both traumatic and non-traumatic interventions, ensuring that drivers are well-prepared to respond effectively in emergency situations.

Under the expert supervision of doctors from the AIIMS-JPN Apex Centre, the training session encompasses critical interventions such as CPR (Cardiopulmonary Resuscitation), splinting, heimlich maneuver, burn management, drowning, snake and dog bites and other vital aspects of first aid.

IRF-IC trained 5,500 drivers across, Delhi, Haryana and Aurangabad (Bihar) during November 2023 to March 2024. The collaborative effort aimed to install a culture of safety and preparedness among drivers, fostering a safer road environment for all.



For more information, please visit our website [indiairf.com](http://indiairf.com)

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