

Jaypee Greens Sports City Buddh International Circuit

YAMUNA EXPRESSWA

**ORAFOL INDIA** 



\$1.2 B

**Global Sales** 



2500+

**Talented Minds** 

100

Countries

7

**Business Groups** 

14

**Registered Brands** 

€160 M

Investment in research and expansion



# **ORAFOL Europe**

#### COMPANY MILESTONES

1808

The founding history of ORAFOL Europe GmbH dates to the year 1808

1919

The company relocates to Oranienburg in Brandenburg from Berlin

1960

The first selfadhesive reflective vinyl for traffic signs are produced

1976

The first selfadhesive graphics products are manufactured 2005

ORAFOL USA production facility started in Black Creek

2011

The ORAFOL Group acquires the Reflexite Corporation, USA 2019

Foundation of ORAFOL India Pvt. Ltd. in Delhi, India





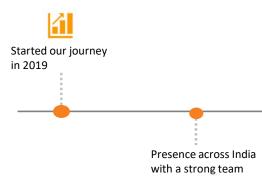






**Established in** 

2019





Customer engagement programs

Committed to bring families home safe

Re-located to our New Office in Delhi



Association with strong channel partners



# **Divisions of ORAFOL**





**Graphic** Innovations



**Reflective** Solutions



Adhesive Tape Systems



**Advanced** Polymer Films



**Advanced TPU Films** 



**Automotive** Graphics



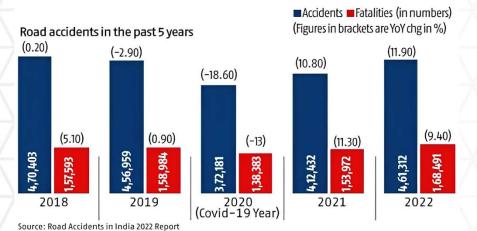
**Optic** Solutions

## **Accident Scenario on Indian Roads**



#### **Indian Road Network**

Segment	Length (Kms)	%Share
National Highways	1,44,955	2%
State Highways	1,67,079	3%
Other Roads	60,19,757	95%
Total	63,31,791	100%



### Cops: 40% of deaths in road **DRIVER HIT BALUSTRADE TO STOP VEHICLE** accidents in 18-35 age group

# separate road accidents







The bike, along with the rider,

was dragged under the bus -A bystander

The accident could have happened due to speeding. Or it could have been a mechanical snag as the bus was not operated for the past 45 days. The driver hit the wall intentionally to stop the vehicle. The biker unfortunately came in the way. We are probing all the angles and checking footage from CCTV cameras around. Once we interrogate the driver, the exact nature of the accident can be established

-A Lalbazar officer

# 3 killed & 2 injured in 4

#### LB Nagar: 2 women hit by car, injured

In LB Nagar, two elderly a car hit a median and overmorning. The victims. n. 60 are both residents





The driver, after losing control of the bus and hitting the bike, reportedly drove into the balustrade to bring the vehicle to a stop; police commissioner Soumen Mitra examines the spot



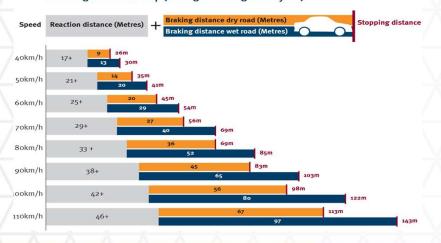


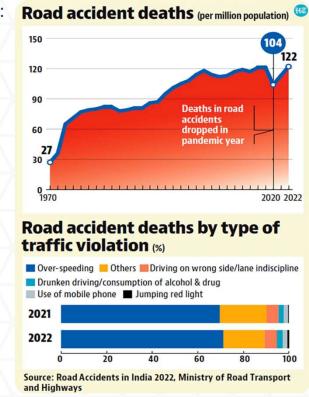


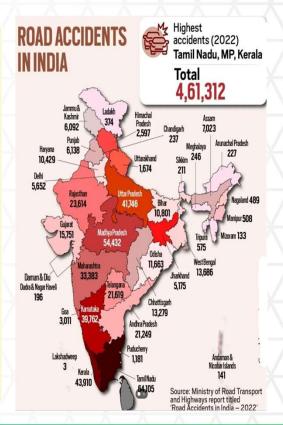
Some of the major reasons/ causes of road accidents: Road accident deaths (per million population) @

- Over speeding
- Drink and drive
- Poor Visibility
- Traffic Rule Violations and others

How long it takes to stop (driving an average family car)

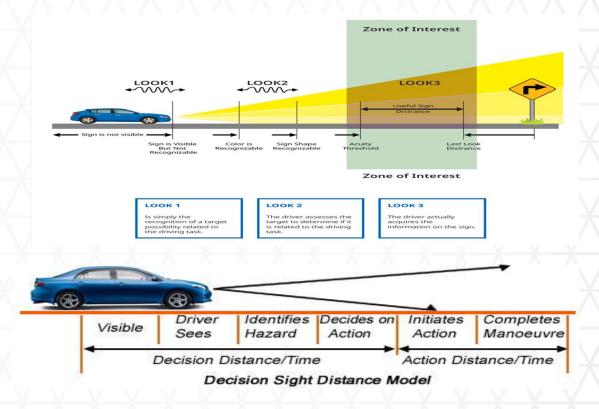






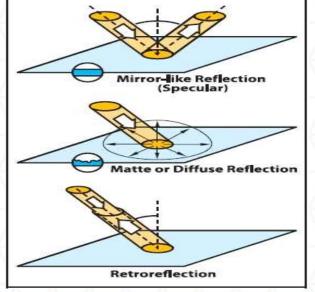
# **Driving Scenario**

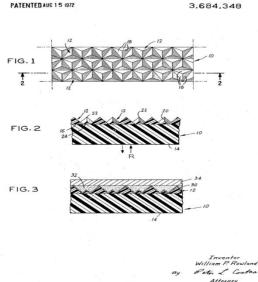
- Visibility and Legibility of signs on the roads is utmost important
- Better visibility enhances the VRT (viewers response time)
- The identification of any Signboard or any Hazard are critical for a driver to respond to the situation
- The legibility index considered in IRC:67 2022 is 45 which is optimum for road users





- In **1963**, brothers Hugh and Bill Rowland, bought the rights to develop a new retro-reflective technology from **Luce Reflexite** and patented the world's first micro-prismatic sheeting, a product that is as much as 20 times brighter than engineer grade films.
- This meant that signs that were formerly visible at say 300 feet away, could now be seen from over 3000 feet away.
- Reflexite's first patent was labelled "Retro Reflective Material", and was filed for in September of 1970, and was granted in 1972.





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# **ORAFOL India Product Range**



### **Leveraging ORAFOL Reflective Technology for improving Road Safety**

#### For better Navigation

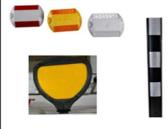
#### Retroreflective Sign Sheeting



- ORALITE High Intensity
  Prismatic Sheeting
  ORALITE Dismand Cond.
- ORALITE Diamond Grade Sheeting

Whether it's retroreflective sheeting for road signs, guide signs or informational signs, ORAFOL materials meet the requirements of today's complex and demanding traffic environment.

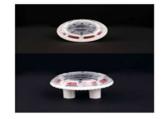
#### Raised Pavement Markers and other Road Furnitures



- ORAFOL Raised Pavement Markers
- ORAFOL Delineators
  ORAFOL Flexible Median Marker

Designed for the best performance and made in India products like Raised Pavement Markers, Flexible Median Marker and Delineators complete the entire portfolio of Road Safety.

#### Solar Raised Pavement Markers



ORAFOL Solar RPMs

In both rainy & foggy conditions, ORAFOL Solar RPMs provide excellent visibility to the drivers. Major application areas are the roundabouts, median openings, along the median and sharp turns.

#### For improved Visibility

#### Vehicle Conspicuity





ORAFOL Conspicuity Markings

Improve the visibility of emergency and other vehicles to help reduce accidents. NOTE: Emergency vehicle markings are different than the typical red/white truck product. Need to clarify what we are proposing here.

#### Retroreflective Rear Marking Plates

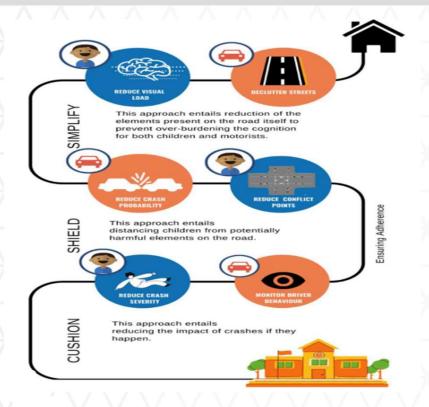


- ORAFOL C3 Rear Marking Plate
- ORAFOL C4 Rear Marking Plate

Provide enhanced visibility and safety for automotives with ORAFOL C3 & C4 high performance materials applied as the rear marking plates on the commercial vehicles

# **School Zone Safety- IRC:SP32**

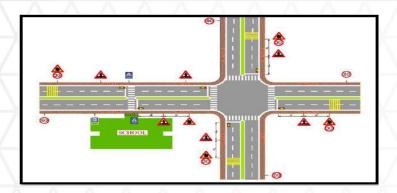




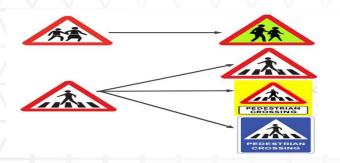


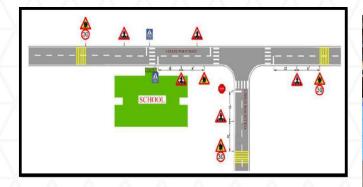
# **School Zone Safety- IRC:SP32**





School Gate located on Midblock Section of a four lane divided road





Typical Illustration of Various measures required for the School Gate located on the Midblock Location of Two-Lane Bidirectional Road







Conducting awareness program for School Zone Safety

# **Black Spot Rectification**

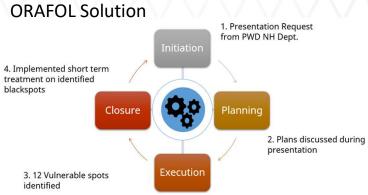












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# **Creating Visibility in various segments**

















### **Print Innovation Summit**







### **UP PWD Road Safety Event**





# **RSRDC** Rajasthan









### **JDA Presentation**





### **iSOL Event ICAT**





### **ASSOCHAM 2023**







### **IRF Event**





### 1 Week 1 Lab CRRI









# **CRRI Foundation Day**











### **Customer Event Kerala**





# **Coalition Signing**









# **IRC 2023**











Thank You!!

**ORAFOL INDIA**