

3M's Traffic Safety Social Initiatives

3M Commercial Branding And Transportation Safety Division 27th January 2025



Serving our customers through four Business Groups



\$12.0B 2021 sales **\$9.3B** 2021 sales

\$8.6B 2021 sales

\$5.5B 2021 sales



Investing in our Communities in India

Meaningful partnerships, community engagement and causes aligned to SDGs







Helping our children and young people harness potential

From early child/ girl child education to supporting and mentoring young innovators



Community

Empowering the sustainability of our communities

From empowering women to livelihood to public health and safety



Environment

Empowering communities with access to clean water and energy resources

From lake rejuvenation to rural solar electrification





Supporting frontlines and underserved communities

From Food security programs to Community Vaccination initiatives





186,300

Children die from road traffic crashes around the world every year

8%

Road accidents in India happen near schools, college or other educational institutions

30%

of children witnessed a crash during their commute to school

1.4M+ Schools in India, but there is no specific Budget/Manuals/stakeholder responsible for Creating a Safe Route to School

How 3M Road Safety Program for School zone conceived?



© 3M 2019. All Rights Reserved. 3M Confidential.

3M

*Source: Morth 2019 Accident Data -https://morth.nic.in/sites/default/files/RA_Uploading_pdf

School Zone Safety

Encountering this need for a new well designed system the school zone safety is characterized in the following:

Pedestrian Safety

Most children in India (57%) walk to and from school which requires them to cross roads, navigate through traffic etc.



Image source: Bangalore School zone prog 2019 conducted by 3M

On Road Safety

Use of bicycle (6%) or being escorted by parents or use of other services like school bus and auto rickshaws etc.



Safe Driving Practices

Use of roads around school zones by other users and their driving practices.



Source :https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5070088/

Global Strategic Partnerships and Collaborations

iRAP

International road assessment organization that creates rating tools to improve road safety.

3M is a Star Rating for Schools Global Programme Partner by way of annual sponsorship.



Global research non-profit organization that focuses on improving road safety.

3M sponsors research and pilot projects with WRI to help improve road safety standards.



Vision Zero is a collaborative campaign helping communities eliminate traffic fatalities and injuries.

3M is a champion sponsor for Vision Zero and leverages our products as safety countermeasure solutions. And other Road Safety Stakeholders in India like IRTE, IRF, IAHE, CRRI, IIT Madras, SPA Delhi & Road Safety NGOs





Study Partners-



School of Planning and Architecture New Delh

ferrovial

Multinational company involved in design, construction, financing, operation and maintenance of transport infrastructure.

3M is the sole physical infrastructure company in Ferrovial's connected corridor consortium.



Technology company that manufactures impact detection and other road safety devices.

3M to sell \$1.4M of devices in 2021 under private label.



Technology company creating mapping and sensing software for autonomous driving.

3M to procure data to be used for SIMS platform and collaboratively develop new pavement marking condition index.



Uses computer vision to measure near-misses and drive proactive road safety investments.

3M products positioned as countermeasure solutions for unsafe areas identified with video analytics.

3M initiatives to create safer school Zones



© 3M 2021. All Rights Reserved. 3M Confidential.

3M School Zone Safety Campaign



Launched in 2019 - Action commitment of improving **100** school zones around the world



By implementing 3M solutions on the ground is aiming to reduce fatalities



 \heartsuit

Make access to education more equitable for all

Conduct risk assessments and implement tools for identifying safety improvements in School zones

Three E's of Road Safety very Critical in School Zone





3M

Enforcement



© 3M 2025. All Rights Reserved.

9

Education - YCARs Workshop

Road Safety awareness workshops and survey conducted by CoRPs among students in schools across Bangalore, Gujarat and Tumkur Karnataka

Building Young Change Agents for Road Safety

Make children the center of road safety education in a meaningful way. Bring about change with our science for road safety.



Experiential Learning

Through an empathetic understanding of roads, road users and behaviours

Participatory Approach

behaviours

 Approach
 School Zone

 Children observe
 Children share a

 zone around their
 vision of what the

 school and identify
 safe zone around

 what's missing and
 their school should

 unsafe road user
 look like

Vision of a Safe School Zone Children share a vision of what the safe zone around their school should look like Bringing the Vision to Life with 3M Science 3M brings this vision to life through road safety improvements - road signage and road markings in the school zone



SCHOOL

ZONE

ZONE

PICK UP

POINT

differentiated, visually attractive Signage System for School Safe Zones in India

3 pronged approach – CSR at the community, 3M solutions for School Safe Zones and working with bodies to influence regulation







Education - Principal's Seminar, in association with TOI

200+ Principals from schools across the city gathered to discuss & determine ways to build safer roads around schools

Panelists included Rajvardhan Sinha, Joint commissioner of Police (Traffic), SVR Srinivas, IAS, Metropolitan Commissioner, MMRDA, Manish Hariprasad along with Harish Banwari, Director-Asia, Transportation Safety Division



© 3M 2025. All Rights Reserved. 3M Confidential.

Engineering - School Zone Safety Programs implemented around the world





Focus on road signage to reduce risk to children in school zones.

US



Traffic garden was used during physical education class to teach kids rules of the road.

China



educational programs and 4-city campaign featuring "**Safe Walking and Trip**" on National Traffic Safety Day

Large **yellow carpet** installations to help drivers easily identify crossing paths and locate children

Korea

Belgium

"Safe to school" package with education, infrastructure. Crayon Gate Effect using 3M Fluorescent Yellow Green Sheeting

© 3M 2025. All Rights Reserved. 3M Confidential.





India - Creating Safe School zones with unique visual identities across India with 10+ Model installations



Engineering

IRC:SP:32-2023 "Guidelines for safer commute to School" states that :

- Defines School Zone area within a radius of 150m to 670m.
- Divided into 3 Zones and given the guideline on how to treat each Zone.
- Cautionary signs to be provided at the start of a school zone.
- School zone ahead sign with fluorescent yellow green color background.

As per IRC, the zones around a school are categorized as follows:



3M India worked closely with IRC for the new School Zone regulations released in July 2023

© 3M 2020. All Rights Reserved. 3M Confidential.

IRC SP 32- Design Solutions



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



Road Marking

© 3M 2025. All Rights Reserved. 3M Confidential.



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



Refuge Island

3M



Yellow Carpet



School Zone Signages



© 1312/1 220225 All IRights Reserveed. 3M Confidential.

3M

IRC SP 32-Guidelines for Road Elements within School Zone

3M







Pick & Drop Zone



Walking Infrastructure-Footpath, Guard Rail, Pedestrian Crossing, Refuge Islands



Cycle Track & Cycle Lane



Public Transport within the zone

Road Marking



Road Signages



18

© 3M 2025. All Rights Reserved. 3M Confidential.

A Zone with a Visual Identity



© 1312/1 200225 AMI IRRightssResserveed. 3M Comflideentfall.

Model SZs Implemented in India- Delhi

- Schools/ Institutions: NB Boys School
- Area treated: Total length 700m
- New products: Stamark, Fluorescent Yellow DG Sheeting, Neocaps
- NGO partner: WRI



3M-IRF School Zone program

- 1. Blue Bell International School- East of Kailash, New Delhi
- 2. Loreto Convent School- Delhi Cantt
- 3. Mahavir Public School- Ashok Vihar
- 4. Delhi Public School R K Puram Delhi.
- 5. School from Ghaziabad- yet to finalize



Bluebells School International, Delhi						Design Speed - 66 to 80 Location : Delhi Stretch : Lala Lajpat Rai *Note: Images of sig i	
SI. No.	Traffic Signs	Reference: IRC 67- 2022	Dimension (mm)	Sign Design Representatio	Nos.	Remarks	
		NE	W SIGNS		8		
3	School Zone + Speed Limit	15.34 + 14.39	900mm Triangle + 750mm Circle		4	To be placed at the start of school zone on all approach arm	
2	School Ahead + Speed Limit	15.34 + 14.39	900mm Triangle + 750mm Circle		5	To be placed at 100m from the school main gate on the approach arm	
3	Maximum Speed Limit	14.39	750mm Circle	50	1	On the exit arm, at the end of school zone.	
	Maximum Speed Limit	14.39	750mm Circle	30	٦	On the entry arm, before the start of the transition zone.	
	Pedestrian Crossing	15.33	900mm Triangle		đ	Before the Pedestrian Crossing	
5	Right Object Hazard Marker + Compulsory Keep	15.79 + 14.50	(300x900)mm + 750mm Circle	8	10	On Median Opening, where the medians are not highlighted with any	

Bluebells International School



Model SZs Implemented in India-Bangalore

- Area treated: Total length 1.5 km
- Schools/Institutions: Siddaganga High School and Tumkur University
- New products: Stamark, Fluorescent Yellow DG Sheeting
- PR/CSR activities: YCARs workshop conducted 16th -17th December
- NGO partner: CoRPS



Model SZs Implemented in India-Gujarat

- Area treated: Total length 2.2 km
- Schools/ Institutions: Mount Carmel School Gandhinagar
- New products: Stamark, Fluorescent Yellow DG Sheeting, Solar RPM
- PR/CSR activities: YCARs workshop conducted 21st & 22nd December
- NGO partner: CoRPS



Model SZs Implemented in India-Punjab

- Area treated: Total length
- Schools/ Institutions: Government Senior Secondary School Sahora, Punjab
- New products: Stamark, Fluorescent Yellow DG Sheeting, Solar RPM
- NGO partner: Avoid Accident



How can we Improve Road Safety in School Zones? Enforcement Plan





• PR and communication

Key focus areas:

Identify schools/ locations for intervention

Onboard partners and sponsors

Conduct awarenes programs and road safety education workshops

Secure stakeholder and authority approvals





© 3M 2025. All Rights Reserved. 3M Confidential.

3M

3M Solutions for School Zone



3M[™] Fluorescent Diamond Grade[™] Retro reflective sheeting

Brighter signs

gives drivers more time to react and increase safety in School Zones with superior visibility

3M[™] Flexible Median Marker





3M[™] Standard Delineator



reduction in causalities with delineation solutions

3M[™] Aluminum-backed Flexible Prismatic Sheeting (AFP)



(CON) Highly Conformable and Reflective.

3M[™] Solar Raised Pavement Marker





3M[™] Raised Pavement Markers Series 290





31

3M™ Stamark™ Pavement Marking



All weather retro-reflective properties even in visually complex roadway environments.

© 3M 2025. All Rights Reserved.



Be the Changemakers

- Drive real change and help make roads to school safer for India's future generations by leveraging 3M's technical expertise
- Create young change agents and raise road safety awareness among students and young road users with focused workshops and learning experiences
- Ensure national visibility for IRF "School Zone Safety Project"

Thank you!