

Truck Technology Is Protecting Workers and Road Users on Indian Highways

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As the Ministry of Road Transport and Highways (MoRTH) actively expands National Highways, its focus is not just on faster connectivity but equally on bringing safety standards to a global level. Infrastructure development today is not only about building wider roads; it is about protecting every life that travels on them. With this vision, advanced safety systems like Truck Mounted Attenuators (TMAs) have been deployed on many sections of the highways, and these global practices are saving many lives, including those of on-ground workers and highway users.

Protecting Those Who Work on the Roads

Behind every highway upgrade and maintenance activity are hundreds of workers who operate in challenging and high-risk environments. Maintenance and construction zones on busy highways are among the most vulnerable areas, where speeding vehicles and limited visibility can lead to severe accidents.

To reduce these risks, MoRTH has consistently encouraged concessionaires to adopt advanced safety interventions across highway projects. Responding to this vision, one of the concessionaires has started taking a proactive step by deploying Truck Mounted Attenuators with integrated wig-wag warning systems.

This concessionaire operates and manages 9 National Highway projects spanning a cumulative length of 681 kilometres across Andhra Pradesh and Gujarat, making this deployment a significant milestone in highway safety management.

What is Truck Mounted Attenuators?

Truck Mounted Attenuators are specially designed impact-absorbing safety devices that play a critical role in protecting both workers and road users.

In the event of a collision, these systems absorb and dissipate kinetic energy, reducing the force of impact. This helps:

- Protect maintenance crews working ahead of the vehicle
- Reduce injury risks for occupants of the impacting vehicle
- Minimize the severity of accidents in highway work zones

In many ways, TMAs act like an invisible shield — standing between danger and human life.

Early Warnings That Prevent Accidents

The deployed TMAs are equipped with high-intensity wig-wag warning lights, designed to flash in alternating patterns that form directional arrows. These signals provide clear and timely warnings to approaching drivers.

This feature is especially valuable:

- On high-speed highway corridors
- During night-time operations
- In foggy or low-visibility conditions

By alerting drivers well in advance, these systems help prevent collisions before they occur.

Figures With a Purpose: Building Safer Highways

Across the 9 highway projects:

- **33 Truck Mounted Attenuators (TMAs)** have been deployed
- **15 Towable Truck Mounted Attenuators (TTMAs)** have been installed
- All units comply with **globally recognized safety standards**, including MASH Test Level-3 (TL-3) and NCHRP 350 Test Level-3
- These systems are designed to withstand impacts at speeds of up to **100 km/h**

Turning Vision into Action on the Ground

This initiative reflects how MoRTH's forward-looking safety vision is being transformed into real, measurable action on the ground. The commitment shown by the ministry and its concessionaire highlights the critical role they play in implementing global best practices and ensuring safer highways.

As India's highways continue to grow wider and faster, it is equally important that safety grows stronger with every kilometre added. Solutions like Truck Mounted Attenuators represent the evolving identity of modern infrastructure — where development is not defined by speed alone, but by safe journeys, protected workers, and lives saved.







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