



Case Study: Gujarat State Highway Project II

Image Credit Wikimedia Commons

An upgrade for enhanced motorist safety

In June 2016, the government of Gujarat, Roads & Buildings Department (R&BD) proposed the second Gujarat State Highway Project (GSHP-II). This initiative involved upgrading selected State Highways spanning almost 656km in length. In total, 4% of the project budget was allocated to safety interventions.

Apart from the road safety program, a special Model Safe Corridor Development project (SCDP) was implemented on 30km of road. Lack of proper road safety measures, including road markings, made this stretch of road unsafe. Road safety interventions were needed to reduce accidents and to provide a safer driving experience to the public.

To ensure the quality of the various products used throughout the project, rigorous actions were taken for the Source approval, such as third-party testing for the materials used.

Special provisions were also given to the environment. Aluminum-backed Flexible Prismatic retroreflective sheeting was wrapped around trunks of trees along the project, removing the need for the use of nails to affix sheeting.

Road safety challenges

- 656 km of road needed improved pavement markings, signages, and delineators
- 30 km of road was designated as a Model Safe Corridor, and required major safety improvements
- To protect motorists, barricades and signages for work zone were needed throughout the execution of the project
- Trees along the highway had to be safeguarded without damaging them

Solutions offered

- Signage with Type IV Retroreflective Sign Sheeting were set up according to IRC:55 guidelines for work zones
- 3M Pavement Markings were also installed according to IRC:35-2015
- Durable Raised Pavement Markers (RPMs), Median Markers and Delineators were installed to increase visibility of bifurcations, road medians, and to safeguard embankments
- Trees around highway were wrapped with Aluminum-backed Flexible Prismatic (AFP) retroreflective sheeting to avoid using nails

Products Used

- [3M 3930 Type IV HIP Retroreflective Sign Sheeting for Signage](#)
- [Pavement Markings](#)
 - [3M Molded Shank Raised Pavement Markers \(RPMs\)](#)
 - [Median Markers](#)
 - [Delineators](#)
 - [Aluminum-backed Flexible Prismatic \(AFP\) Sheeting](#)

Case study snapshots



Delineators and Pavement Markings protect vehicles from embankments.

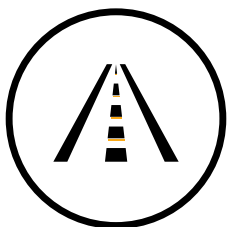


Type IV Retroreflective Sign Sheeting was used for enhanced road visibility.

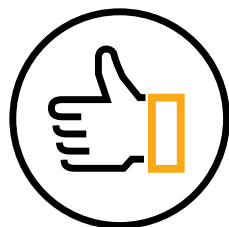


A sufficient number of signs, per IRC 67:2012, were installed.

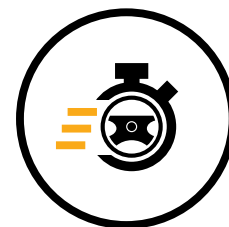
Results



Clearly marked roadways increased driving comfort



Improved road safety for motorists



Visible road signs resulted in faster travel times



Cautionary/Warning traffic signs reduced pedestrian injuries and fatalities

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