

AI-enabled Swiss technology to ensure smooth ride on e-ways

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Lucknow: The Uttar Pradesh govt has signed an MoU with ETH Zurich University and RTDT Laboratories AG to use advanced Swiss technology in the form of artificial intelligence and sensor-based systems to ensure high-quality construction of expressways.

The technology will be able to detect and fix road defects during the construction phase, ensuring a high-quality end product.

After implementing it on the Ganga Expressway, the govt plans to extend it to the Gorakhpur Link Expressway as well.

The Ganga Expressway is a 594-km long project that will connect 12 districts in the state, from Meerut to Prayagraj. It is proposed to be extended to Ballia in the future, making it the longest expressway in the country.

The Adani Group, which is constructing 464 km from Badaun to Prayagraj, including a 3.5-km long airstrip on



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Shahjahanpur stretch, said 80% of the work on the project is complete. The project is the longest expressway in India to be implemented on a Design, Build, Finance, Operate and Transfer basis.

Shrihari Pratap Shahi, additional CEO of the Uttar Pradesh Expressways Industrial Development Authority (UPEIDA), explained the use of the Swiss technology to ensure the riding quality of the Ganga Expressway.

He said that a vehicle, equipped with vibration technology and seven accelerometer sensors, which includes four for quality and three for com-

fort, is inspecting all six lanes. "The vehicle collects data on the road surface, comfort level and elevation variations, which can be viewed in real-time through online graphs," he said.

This technology can instantly identify which parts of the road do not meet the required standards, and addressing such issues during construction reduces future maintenance costs and challenges, the official added.

So far, road quality checks were done after construction was completed, making it difficult to fix manufacturing defects. With the Swiss technology, the quality and comfort of the road are being monitored during the construction itself.

The sensors being used measure the smoothness and gradient of the road, and its comfort level, allowing for immediate corrective action wherever necessary. This not only saves time but also conserves resources, the official said.