

Ministry of Railways



Indian Railways Approves ₹206 Crore Kavach Deployment on 680 Route Kilometres of Northern Railway to Enhance Safety and Operational Efficiency

Kavach 4.0 to be Installed on Rewari-Delhi and Shakurbasti-Bathinda Sections Including Feeder Branch Lines for Safer, Faster and More Reliable Train Operations

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In another significant step towards expanding India's indigenous Automatic Train Protection (ATP) system, Indian Railways has approved the provision of Kavach Version 4.0 on 680 Route Kilometres (RKm) of the Rewari-Delhi and Shakurbasti-Bathinda sections, including feeder branch lines, of Delhi Division, Northern Railway. The project has been approved at a cost of ₹206 crore.

The project forms part of Indian Railways' ongoing nationwide rollout of Kavach, aimed at expanding the indigenous safety system across high-density and strategically important routes.

Kavach is India's indigenously developed Automatic Train Protection (ATP) system designed to significantly enhance railway safety by preventing Signal Passed at Danger (SPAD) incidents and train collisions. The system continuously monitors train movements, automatically applies brakes whenever necessary, permits trains to operate safely at maximum permissible speeds, and supports reliable train operations even during adverse weather conditions such as dense fog.

Deployment of Kavach Version 4.0 on these important routes of Indian Railways will strengthen safety, improve operational efficiency, enhance reliability of train operations and support faster, technology-driven movement of both passenger and freight services.

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