

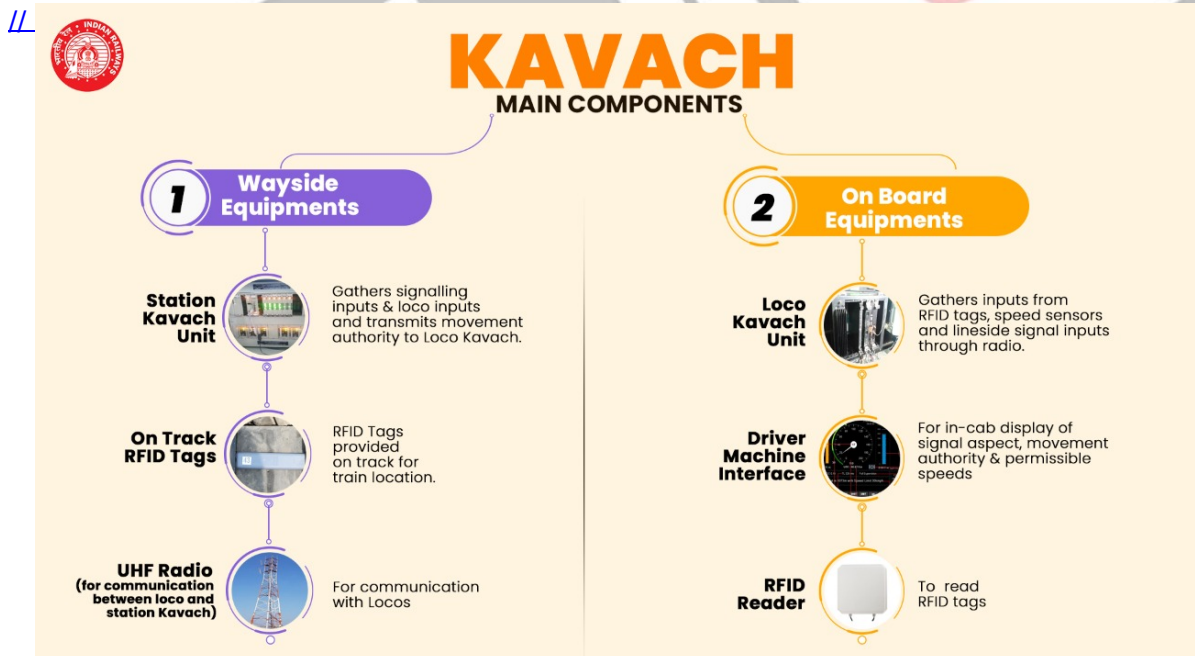


Kavach System

[Source: FE](#)

Recently, **Indian Railways** has finalised an agreement with **RailTel Corporation of India Limited and Quadrant Future Tek Limited** to expedite the rollout of the KAVACH train collision avoidance system, both domestically and internationally.

- [Kavach](#) was developed by the [Research Design and Standards Organisation \(RDSO\)](#) in association with three Indian vendors and serves as a cab signalling train control system with anti-collision capabilities
- It has been designated as India's **National Automatic Train Protection (ATP)** System and meets Safety Integrity Level-4 (SIL-4) standards.
 - ATP systems are safety mechanisms that monitor a train's speed to ensure it aligns with permitted speeds set by signals. If the train exceeds these limits, **ATP triggers emergency brakes** to halt the train.
- Additionally, the system transmits **emergency SoS messages** and offers centralised live monitoring of train movements through the Network Monitor System.
- [The Indian Railways Institute of Signal Engineering & Telecommunications \(IRISET\)](#) in Secunderabad, Telangana, serves as the '**Centre of Excellence**' for Kavach.



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