

2023/S&T/dev/Kavach.Corres.

1/3102387/2024

भारत सरकार (GOVERNMENT OF INDIA)
रेल मंत्रालय (MINISTRY OF RAILWAYS)
रेलवे बोर्ड (RAILWAY BOARD)

No. 2023/S&T/Dev/Kavach Corres.

Dated: 09.08.2024

**General Managers
Indian Railways.**

**Director General
RDSO.**

**Director General
IRISCT.**

Sub: Implementation of Kavach on Indian Railways in Mission Mode.

Zonal Railways are advised to take action as under to implement Kavach in Mission Mode over IR.

1. Kavach system shall be proliferated as per RDSO specification Version 4.0 of Kavach on UHF spot frequencies. LTE hardware will also be provided in locomotives for smooth migration on LTE. Temporary Speed Restriction Management System (TSRMS), Neutral Section & FM protection features will be implemented progressively.
2. Electrical Department shall equip Locomotives (including Electric, Diesel, Multiple Units, Other Self-Propelled vehicles wherever feasible) with Loco Kavach through Production Units/ Loco Sheds on priority.
- 3(a). Tenders for Kavach as per RDSO specification Version 4.0 will be invited for Delhi-Chennai & Mumbai-Chennai routes and on sections identified/provided with Automatic Block Signalling (ABS). On these sections, Planning, Design & Provision of RFID in the block sections, to be taken up first to get advantage of Non-Signalling based Collision Prevention under certain conditions in the Block Section keeping overall objective of full Kavach implementation in consideration.
- 3(b). For balance sections where Kavach works are sanctioned, tenders will be invited thereafter following the same methodology as mentioned in Para 3(a). Zonal Railways may modify implementation scheme based on experience gained during execution of works under Para 3(a).

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For remaining routes/sections on IR network, Umbrella costing Rs 27000 Cr for Kavach work along with Communication backbone is sanctioned in Year 2024-25. Zonal Railways to send proposals for sanction of works in this umbrella expeditiously. Planning for execution shall be initiated thereafter.

5. Infrastructure works like Towers, OFC, Buildings and Feeder Power Supply can be taken up separately in advance, as per site requirement of the respective Zones.
6. Zonal Railways, may also if required invite BOQ based Tenders for Kavach Works.
7. Further provisioning of Loco Kavach will be done through the Rolling Stock Plan (RSP).
8. Existing ongoing Kavach Works in SCR (1465 RKm) & NCR (MTJ-PWL section: 84RKm) will be commissioned on Version 3.2 and subsequently to be upgraded to Version 4.0.

This is issued with approval of Board (MI, M/T&RS, M/O&BD, MF and CRB & CEO)

Signed by Vivek Kumar
Date: 09-08-2024 16:49:28
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(Vivek Kumar)
Executive Director/S&T(Dev.)-II,
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