

KAVACH SYSTEM – QUICK REFERENCE FOR STATION MASTERS

Purpose of Kavach

- ◊ Indigenous Automatic Train Protection (ATP) System by Indian Railways.
- ◊ Prevents SPAD, overspeeding & collisions.
- ◊ Works with Colour Light Signalling & Electronic Interlocking.
- ◊ Supplementary safety aid — does *not* replace G&SR Rules.

STATION MASTER OPERATION CUM INDICATION PANEL (SM-OCIP)

-  Installed near Station Master's desk for instant access.
-  Monitors system health, generates/cancels SOS, and acknowledges alerts.
-  Instructions included in Appendix-C of SWR.

Panel Components

-  SM Key – Turn to “IN” position to activate.
-  LED Indicators – Show system & SOS health.
-  LCD Display – Station ID, Kavach status, SOS details.
-  Audio Buzzer – Alerts for SOS.
-  Buttons:
 -   **COMMON** – Used with SOS/CANCEL
 -   **SOS** – Generate SOS
 -   **CANCEL** – Cancel SOS
 -   **TSR/ACK** – Acknowledge alert (future use: TSR)

LED INDICATIONS & ACTIONS

LED	INDICATION	MEANING	SM ACTION
█ HEALTH OK	ON	Normal	—
█ HEALTH FAIL	ON	Station Kavach Unhealthy	Inform S&T Staff
█ SOS (Blink)	ON	SOS Generated/Received	Acknowledge & Inform Control

MANUAL SOS OPERATION

★ Step 1: Insert Key → Turn “IN”

★ Step 2: Press **SOS + COMMON** simultaneously

⌚ All Kavach-fitted trains within **3000 m** radius will stop DEAD automatically.

★ Step 3: Cancel SOS when clear using **CANCEL + COMMON**.

⌚ Normal operation resumes when:

✓ SOS Cancelled

✓ Train >1500 m from Source

✓ No SOS received for 3 minutes.

ACKNOWLEDGEMENT

█ Press **TSR/ACK** button to silence buzzer and confirm receipt.

FAILURE REPORTING

✍ Maintain register of all failures/restorations.

📞 Inform S&T Department immediately.

MAKES IN USE

 Medha | Kernex | HBL (Minor layout variations)

GENERAL GUIDELINES DOs

- Follow G&SR and operating rules.
- Treat Kavach as safety support only.
- Isolate Kavach during:
 - ◊ Wrong line dispatch (TSL working)
 - ◊ Shunting beyond station section
 - ◊ NI working.

DON'Ts

- Don't operate without turning key "IN".
- Don't depend solely on Kavach for decisions.

FREQUENTLY ASKED QUESTIONS

- 1 **RFID Tag Missing/Damaged:** Inform Divisional Signal Control.
- 2 **SM-OCIP Instructions:** Refer Appendix-C of SWR.
- 3 **Accidental SOS:** Cancel using **CANCEL + COMMON** (Key "IN").
- 4 **Kavach vs Non-Kavach Trains:** Protection only if defaulting train has Communicating Kavach & RFID tags installed.

STATION MASTER'S ACTION CHECKLIST

-  Observe – Monitor LEDs & LCD.
-  Act – Generate SOS if unsafe.

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-  Inform – Control, LPs, All Concerned.
-  Record – Every SOS/failure/restoration.
-  Restore – Cancel SOS after full clearance.

 **Safety Through Smart Supervision – KAVACH Empowers You to Act Swiftly, Safely, and Smartly.**

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