



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.

-  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.**