GOVERNMENT OF INDIA
(भारत सरकार)
MINISTRY OF RAILWAYS
(रेल मंत्रालय)

Annexure -Q

KAVACH
Station Master Operation
and Indication Panel
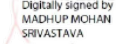# (SM-OCIP) Requirements
(Amdt-1)

Issued by

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Amdt	Date of issue	Amendment
Amdt-1	03.07..2024	Cluase 2.6 (iii) – Modified as "Sub - System faults information Station KAVACH Manual SOS generated information shall be displayed as follows (Line-2 shall display "**SOS GENERATED**") and Cancelled (Line-3 shall display "**SOS CANCELLED** ") and SOS messages shall disappear after 30 second."

Q.1   Introduction

This document describes the SM-OCIP requirements to be used for the purpose of Stationary KAVACH System.

Q.2   Requirements

Q.2.1   SM-OCIP shall provide the following

      i.   LED Indications

      ii.   Switches

      iii.   LCD Panel

      iv.   Buzzer

      v.   6 digits counter which are updated on SOS pressing

      vi.   Station Master's key.

Q.2.2   It shall provide the following LED Indications on the Console

	LED Name	Color	Description
1	HEALTH OK	GREEN	Indicates Station KAVACH Healthy
2	HEALTH FAIL	RED	Indicates Station KAVACH Un Healthy
3	SOS	RED	When SOS generated from Station

Q.2.3   It shall provide the following switches on the Console.

S.No	Switch Name	Color	Description
1	COMMON	BLACK	Common switch to press along with SOS switch
2	CANCEL	BLUE	To cancel the SOS from station
3	SOS	RED	To generate SOS from Station
4	TSR-Ack	YELLOW	To acknowledge TSR

Q.2.4   SM-OCIP shall not allow switches functionality without SM-KEY insertion in-to SM-OCIP.

Q.2.5   A 4 Line×20 Characters (Minimum) LCD panel shall be provided on the console for Stationary KAVACH for display purpose.

Q.2.6   The SM-OCIP shall display the following information on LCD:

      i.   Station ID KMS Key Index, TSR Count along with the Station KA-VACH OK or FAIL. (**Line-1** shall display the "**ID:00531 KI:XX T:XX**" , **Line-4** shall display the "**STN KAVACH OK/SYSTEM LINK FAIL**").

      ii.   Software checksums of all modules along with the Application data

checksum shall be display On Pressing COMMON button, after 1 minute it shall clear the LCD display.

   iii. Sub - System faults information Station KAVACH Manual SOS generated information shall be displayed as follows (Line-2 shall display "**SOS GENERATED**") and Cancelled (Line-3 shall display "**SOS CANCELLED** ") and SOS messages shall disappear after 30 second.

Q.2.7   Stationary KAVACH shall blink SOS LED in SM-OCIP console when manual SOS is generated.

Q.2.8   Stationary KAVACH shall drive Buzzer in SM-OCIP console when manual SOS is generated

Q.2.9   Stationary KAVACH shall increment the Electromechanical non-resettable counter after pressing the manual SOS.

Q.3   Installation of SM-OCIP

The station KAVACH shall be installed in the station Relay Room of the station and the SM-OCIP shall be mounted on Station Master's table or a nearby wall such that it is accessible and visible to the Station Master. 12 Core signalling cable shall be used for button, counter & power supply. 10 pair PIJF cable shall be used for communication portion. The typical SM-OCIP looks like the below diagram