GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS

RAJYA SABHA
UNSTARRED QUESTION NO. 3489
ANSWERED ON 01.04.2022

INDIGENOUS TECHNOLOGY KAVACH

3489 # SHRI BRIJLAL:

Will the Minister of RAILWAYS be pleased to state:

(a)   the salient features of 'Kavach' which is based on state-of-the-art indigenous technology of Indian Railways and the details of its working;

(b)   the dates on which it has been tested or to be tested by the Railways alongwith names of the railway routes; and

(c)   by when this technology is likely to be implemented?

ANSWER

MINISTER OF RAILWAYS, COMMUNICATIONS AND ELECTRONICS & INFORMATION TECHNOLOGY

(SHRI ASHWINI VAISHNAW)

(a) KAVACH is designed to have the following main salient features as:
1. Prevention of Signal Passing At Danger (SPAD)
2. Continuous update of Movement Authority
3. Prevention of Over speed: Section Speed, Train Speed, Permanent Speed Restriction and Loop Line Speed Control
4. Prevention of collision between two Locos equipped with functional TCAS
5. Display of Signal Aspect in Loco pilot's cab.

(b) Section wise detail testing of the Kavach is as follows:
1. Absolute Block section trial for KAVACH started from October 2017 in Lingampally- Wadi & Vikarabad- Bidar of South Central Railway.

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2. Automatic Block section trial for KAVACH started from February – 2019 in Sanath Nagar- Lingampally of South Central Railway.

3. 160 kmph speed trial for KAVACH started from October 2018 in Mathura-Agra section of North Central Railway.

(c) As on 28.02.2022 the technology is implemented on 1098 Rkm of South Central Railway. Further Kavach is planned to be implemented on 3009 Rkm on Delhi – Mumbai & Delhi – Howrah corridors.

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