

USER MANUAL FOR
KAVACH Module of
SLAM

CRIS

Table of Content:

1. Introduction	3
2. Electric Loco Shed	4
i. Add/View Kavach Installation Details.....	4
ii. Add Material Ledger	8
3. Zonal Railway/Railway Board	10
i. Graphical Representations.....	10
ii. Reports	11

'KAVACH' Module – Flowchart

I. Introduction:

The objective of **Kavach module** under SLAM aims at capturing various stages of Kavach retrofit at nominated shed. It also captures material availability across various shed over Indian railways.

1. **Electric Loco Shed:** The process of managing 'KAVACH' module is covered under following heads:
 - a. Add, view and update Kavach installation details which captures
 - i. Loco offered date.
 - ii. Installation complete date
 - iii. Pre-commissioning check list (PCCL)
 - iv. Final testing /commissioning date
 - b. Add and view Kavach material ledger details which includes:
 - i. Make
 - ii. Quantity
 - iii. Date of receiving
2. **Zonal Railway/ Railway Board:** has the authority to view Kavach installation status across nominated shed including priority sheds over Indian railways.

The detailed process flow for handling 'KAVACH' module in the SLAM system is outlined in subsequent sections.

II. Electric Loco Shed:

i. Add/View Kavach Installation Details

- Click on "Kavach" side menu and select "Kavach Status" navigation menu.

The screenshot shows the SLAM-TEST dashboard. The navigation menu at the top includes 'Kavach' and 'Kavach Status'. The 'Kavach Status' option is circled in red. The dashboard also displays various metrics and a 'Jobcard Progress' bar at the bottom.

- "Kavach Installation Status" page will be displayed as shown below.
- Here loco number wise Kavach Installation details can be viewed at a glance.

The screenshot shows the 'Kavach Installation Status' page. A link 'Add Kavach Installation Details' is circled in red. Below the link is a table with the following data:

S.No	Loco	Make	Loco Offered for Installation	Installation Completed	Pre-Commissioning Check List (PCL)	Final Testing/Commissioning Date	Remarks
1	30209	MEDHA	15-01-2025	15-01-2025	15-01-2025	15-01-2025	TEST.
2	30226	MEDHA	01-01-2025	03-01-2025	06-01-2025	05-02-2025	TEST
3	30236	MEDHA	02-01-2025	04-01-2025	07-01-2025	08-01-2025	TEST
4	30461	MEDHA	04-01-2025	06-01-2025	08-01-2025	09-01-2025	TEST
5	30516	MEDHA	02-01-2025	06-01-2025	07-01-2025	08-01-2025	TEST
6	30551	MEDHA	07-01-2025	10-01-2025	11-01-2025	12-01-2025	TEST
7	30661	MEDHA	06-01-2025	10-01-2025	12-01-2025	13-01-2025	TEST
8	30720	MEDHA	04-01-2025	06-01-2025			
9	30755	MEDHA	14-01-2025				
10	30756	MEDHA	08-01-2025	11-01-2025			
11	30787	KERNEX	15-12-2024	18-12-2024	23-12-2024	24-12-2024	TEST
12	30788	KERNEX	08-12-2024				
13	30794	KERNEX	09-12-2024				
14	30807	KERNEX	18-12-2024	01-01-2025	02-01-2025	03-01-2025	TEST
15	30808	KERNEX	09-01-2025	10-01-2025			
16	30809	KERNEX	01-01-2025	04-01-2025	09-01-2025	10-01-2025	TEST
17	30810	KERNEX	08-01-2025	09-01-2025			
18	30811	KERNEX	10-01-2025	13-01-2025	14-01-2025	15-01-2025	TEST
19	30815	KERNEX	10-01-2025	13-01-2025	15-01-2025	15-01-2025	TEST
20	30816	KERNEX	13-12-2024	01-01-2025	02-01-2025	07-01-2025	TEST

a. Add Kavach Installation Details –

- Click on 'Add Kavach Installation Details' link.
- Kavach details will be displayed as shown below.

b. Loco offered for Installation:

- Select “Loco”, “Kavach Make” and fill up date for “Loco Offered for Installation”. On selecting “Kavach Make”, the “Available Quantity For selected Make” in ledger will display as shown below.
- Enter “Remarks” and upload relevant document.
- Click on **Save button**. “Saved Successfully!” message will be displayed.

c. Installation Completed:


- Saved records can be viewed on “Kavach Installation Status” page.

S.No	Loco	Make	Loco Offered for Installation	Installation Completed	Pre-Commissioning Checklist(PCL)	Final Testing/Commissioning Date	Remarks
21	30552	HBL	06-02-2025				Test
22	30552	HBL	06-02-2025				Test
23	30440	HBL	03-01-2025				
24	30442	HBL	17-01-2025	17-01-2025	17-01-2025		testing check

- Click on loco number link. “Kavach Details” page will be displayed.
- Select “Installation Completed” and fill up date and click on save button. “Saved Successfully.!” message will be displayed.

d. Pre-Commissioning Check List(PCCL):

- Saved records will be updated on “Kavach Installation Status” page.’



SLAM-TEST

Home Feedback Reports Logout 06/02/25 11:38

Administration Alerts Bulletin Boards Condition Monitoring Corrections Documents IMMIS Jobcards Kavach Lab Loco Abnormalities Loco Failures Locus Machinery And Plant Measurement Master Memos(*) Movement Register
 MU Locus Notes(0) Planning POH Shop Preventive Maintenance RDSO Shop Floor Testing Beta User Management Wheel Measurements


Notice: Please Update HRMS ID

Kavach Installation Status

[Add Kavach Installation Details](#)

S.No	Loco	Make	Loco Offered for Installation	Installation Completed	Pre-Commissioning CheckList(PCCL)	Final Testing/Commissioning Date	Remarks
21	30429	HLB	06-02-2025	06-02-2025			Test
22	30434	HLB	06-02-2025				Test
23	30440	HLB	03-01-2025				
24	30442	HLB	17-01-2025	17-01-2025	17-01-2025		testing check

- Again click on loco number link and select **“Pre-Commissioning Check List(PCCL)”** and fill up date on **“Kavach Details”** page.
- Upload Pre-Commissioning Check List(PCCL) on clicking **“Choose File”** button.



SLAM-TEST

Home Feedback Reports Logout 06/02/25 11:44

Administration Alerts Bulletin Boards Condition Monitoring Corrections Documents IMMIS Jobcards Kavach Lab Loco Abnormalities Loco Failures Locus Machinery And Plant Measurement Master Memos(*) Movement Register
 MU Locus Notes(0) Planning POH Shop Preventive Maintenance RDSO Shop Floor Testing Beta User Management Wheel Measurements

Notice: Please Update HRMS ID in User Management --> Staff SHED MSG

Kavach Details


Loco: 30429
 Kavach Make: HBL
 Loco Offered for Installation: 06-02-2025
 Installation Completed: 06-02-2025
 Pre-Commissioning CheckList(PCCL): 06-02-2025
 Final Testing/Commissioning Date:
 Remarks:
 [Choose File] No file chosen
 [Save] [Back]

February, 2025
 Su Mo Tu We Th Fr Sa
 28 27 26 25 24 23 1
 3 4 5 6 7 8
 9 10 11 12 13 14 15
 16 17 18 19 20 21 22
 23 24 25 26 27 28 1
 2 3 4 5 6 7 8
 Clear Today

- Click on **“Save”** button. **“Saved Successfully. !”** message will be displayed.

e. Final Testing/Commissioning Date

- Saved records will be updated on **“Kavach Installation Status”** page.’



SLAM-TEST

Home Feedback Reports Logout 06/02/25 11:50

Administration Alerts Bulletin Boards Condition Monitoring Corrections Documents IMMIS Jobcards Kavach Lab Loco Abnormalities Loco Failures Locus Machinery And Plant Measurement Master Memos(*) Movement Register
 MU Locus Notes(0) Planning POH Shop Preventive Maintenance RDSO Shop Floor Testing Beta User Management Wheel Measurements


Notice: Please Update HRMS ID In User M

Kavach Installation Status

[Add Kavach Installation Details](#)

S.No	Loco	Make	Loco Offered for Installation	Installation Completed	Pre-Commissioning CheckList(PCCL)	Final Testing/Commissioning Date	Remarks
21	30429	HLB	06-02-2025	06-02-2025	06-02-2025		Test
22	30434	HLB	06-02-2025				Test
23	30440	HLB	03-01-2025				
24	30442	HLB	17-01-2025	17-01-2025	17-01-2025		testing check

- Again click on loco number link and select **“Final Testing/Commissioning Date”** and fill up date on **“Kavach Details”** page.



SLAM-TEST

Home Feedback Reports Logout 08/02/25 11:52

Administration Alerts Bulletin Boards Condition Monitoring Corrections Documents IMMIS Jobcards Kavach Lab Loco Abnormalities Loco Failures Locos Machinery And Plant Measurement Master Memos(*) Movement Register
 MU Locos Notes(*) Planning POH Shop Preventive Maintenance RDSO Shop Floor Testing Beta User Management Wheel Measurements

ce:Please Update HRMS ID In User Management -->Staff SHED MSG


Kavach Details

Loco: 30429
 Kavach Make: HBL
 Loco Offered for Installation: 06-02-2025
 Installation Completed: 06-02-2025
 Pre-Commissioning CheckList(PCLL): 06-02-2025
 Final Testing/Commissioning Date: 06-02-2025
 Remarks: No file chosen

February, 2025

Su	Mo	Tu	We	Th	Fr	Sa
28	27	26	25	24	23	1
3	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	1
3	3	4	5	6	7	8

- Click on **“Save”** button. **“Saved Successfully. !”** message will be displayed.
- Saved records will be updated on **“Kavach Installation Status”** page.



SLAM-TEST

Home Feedback Reports Logout 08/02/25 11:57

Administration Alerts Bulletin Boards Condition Monitoring Corrections Documents IMMIS Jobcards Kavach Lab Loco Abnormalities Loco Failures Locos Machinery And Plant Measurement Master Memos(*) Movement Register
 MU Locos Notes(*) Planning POH Shop Preventive Maintenance RDSO Shop Floor Testing Beta User Management Wheel Measurements

Notice:Please Update HRMS ID I

Kavach Installation Status

[Add Kavach Installation Details](#)

S.No	Loco	Make	Loco Offered for Installation	Installation Completed	Pre-Commissioning CheckList(PCLL)	Final Testing/Commissioning Date	Remarks
21	30429	HBL	06-02-2025	06-02-2025	06-02-2025	06-02-2025	Test
22	30432	HBL	06-02-2025				Test
23	30440	HBL	03-01-2025				
24	30442	HBL	17-01-2025	17-01-2025	17-01-2025		tesing check

1/2

- **“Final Testing/Commissioning Date”** and **“Remarks”** field can be updated at any later stage.

ii. **Add Material Ledger**

- a) Click on "Kavach" side menu and select "Material Ledger" navigation menu.
- b) This page enables adding Kavach Material Ledger (in "Add Material Ledger" table) and view "Kavach Ledger Detail" and "Kavach Ledger Summary Report" as shown below.

The screenshot shows the SLAM-TEST web application interface. On the left, there is a form titled "Add Material Ledger" with fields for "Date", "Make", and "Quantity", and a "Submit" button. On the right, there is a table titled "Kavach Ledger Summary Report" with columns: Make, Received, Consumed, and Balance Available.

Make	Received	Consumed	Balance Available
GGTRONICS	13	0	13
QFTL	39	0	39
HBL	31	19	12
ARC	10	0	10
KERNEX	7	0	7
MEDHA	26	5	21

- c) Go to "Add Material Ledger" table and select "date", "Make" and "Quantity" to be added as shown below.

The screenshot shows the SLAM-TEST web application interface. The "Add Material Ledger" form has "Date" set to 06/02/2025, "Make" set to HBL, and "Quantity" set to 25. The "Kavach Ledger Summary Report" table is the same as in the previous screenshot.

- a) Click on "Submit" button. "Quantity Added successfully" message will be displayed.

The screenshot shows the SLAM-TEST web application interface. The "Add Material Ledger" form has "Date" set to 06/02/2025, "Make" set to HBL, and "Quantity" set to 25. The "Submit" button is highlighted. The "Kavach Ledger Summary Report" table is the same as in the previous screenshots.

b) Added Quantity will be updated on “Kavach Ledger Detail” as well as “Kavach Ledger Summary Report” as shown below.

The screenshot displays the SLAM-TEST web application interface. At the top, there is a navigation menu with various options like Administration, Alerts, Bulletins Boards, etc. A notice at the top right reads: "Notice: Please Update HRMS ID in User Management -> Staff SHED MSG".

On the left, there is a form titled "Add Material Ledger" with fields for Date, Make (a dropdown menu), and Quantity, along with a Submit button.

In the center, there is a table titled "Kavach Ledger Summary Report" with the following data:

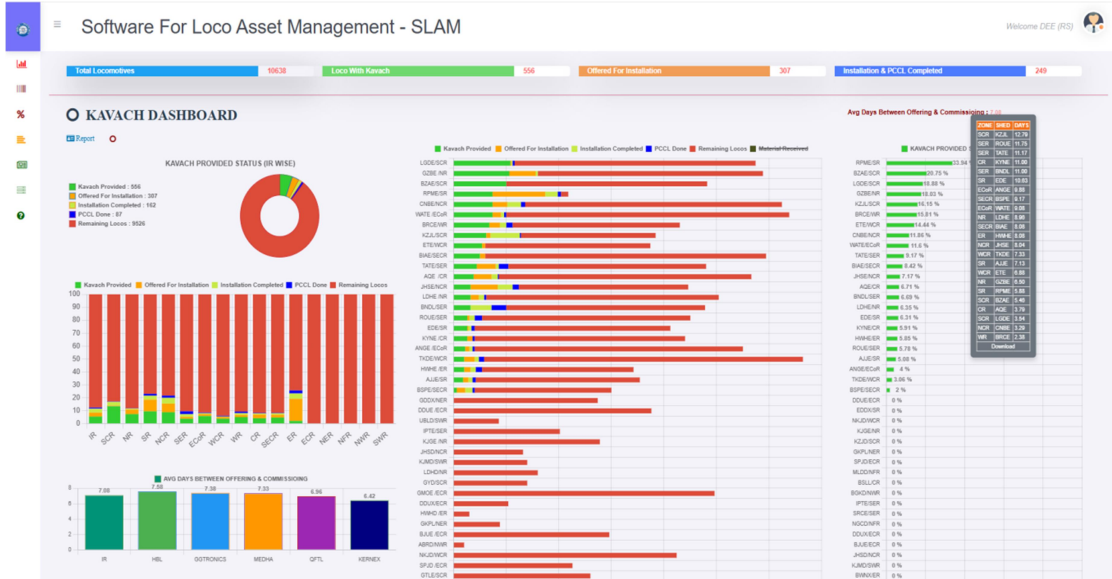
Make	Received	Consumed	Balance Available
GGTRONICS	13	0	13
QFTL	39	0	39
HBL	56	19	37
ARC	10	0	10
KERNEX	7	0	7
MEDHA	26	5	21

Below this is a table titled "Kavach Ledger Detail" with the following data:

Make	Quantity	Date of Received	Updated By
ARC	10	13-01-2025	stamcrisrh
GGTRONICS	1	16-01-2025	stamcrisrh
GGTRONICS	12	15-01-2025	stamcrisrh
HBL	5	16-01-2025	stamcrisrh
HBL	1	15-01-2025	stamcrisrh
HBL	25	14-01-2025	stamcrisrh
HBL	25	06-02-2025	stamcrisrh
KERNEX	1	16-01-2025	stamcrisrh
KERNEX	6	15-01-2025	stamcrisrh
MEDHA	1	16-01-2025	stamcrisrh
MEDHA	10	13-01-2025	stamcrisrh

III. Zonal/Railway Board Dashboard:

Kavach Status can viewed on Railway Board Kavach Dashboard with following details



i. Graphical Representations

a) IR and zone wise:

- Kavach Provided
- Offered For Installation
- Installation Completed
- PCCL Completed
- Remaining Locos

b) **Kavach make wise** Average time taken between offering and commissioning is displayed in graphical form.

Shed wise Average time taken between offering and commissioning is displayed on **mouse over** at right corner.

c) **Loco Shed wise:** User can select filter given at top to monitor following attributes:

- Kavach Provided
- Offered For Installation
- Installation Completed
- PCCL Completed
- Remaining Locos
- Material Received

d) **Kavach Provided Status (Shed wise %)**

ii. Reports

“Kavach Implementation status” report is available on Railway Board/Zonal reports under “Loco inventory” tab. User can view progress using following filters:

- Zone
- Priority shed/ Non priority shed
- Make

Kavach Implementation status

Zone: CR,DF,CR,ECuR,ECR,ER,KR,NCR,NER,NFR,NR, Shed: All Shed, Make: All

Download Report In: Excel, DOC, PDF

Zone	Shed	Total quantity ordered	Progress			
			Daily	Weekly	Monthly	Cummulative(till date)(No)(%)
CR	AQE	273	0	0	9	40 (14.65)
CR	KYNE	144	0	0	13	26 (18.06)
ECOR	ANGE	122	0	0	7	11 (9.02)
ECOR	WATE	95	0	0	16	37 (38.95)
ER	HWHE	95	0	0	1	10 (10.53)
NCR	CNBE	228	0	0	11	37 (16.23)

Kavach Implementation status

Zone: CR,DF,CR,ECuR,ECR,ER,KR,NCR,NER,NFR,NR, Shed: All Shed, Make: All

Download Report In: Excel, DOC, PDF

Zone	Shed	Total quantity ordered	Progress			
			Daily	Weekly	Monthly	Cummulative(till date)(No)(%)
CR	AQE	273	0	0	9	40 (14.65)
CR	KYNE	144	0	0	13	26 (18.06)
ECOR	ANGE	122	0	0	7	11 (9.02)
ECOR	WATE	95	0	0	16	37 (38.95)
ER	HWHE	95	0	0	1	10 (10.53)
NCR	CNBE	228	0	0	11	37 (16.23)

-----X-----X-----