

अश्वनी लोहानी
ASHWANI LOHANI



अध्यक्ष, रेलवे बोर्ड
एवं
पदेन प्रमुख सचिव, भारत सरकार
रेल मंत्रालय
CHAIRMAN, RAILWAY BOARD
&
EX-OFFICIO PRINCIPAL SECRETARY
GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS

No. 2017/Transf. Cell/Go Digital

Dated: 24.04.2018

Dear General Manager,

Sub: Encourage People to Go Digital – Launch of E-Inspection Module.

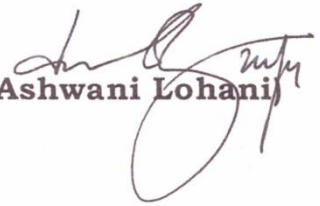
A novel E-Inspection Software and Mobile Application has been developed by Delhi Division under the overall guidance of the Transformation Cell. This will obviate the need for paper based reporting of inspections. This is capable of generating MIS reports in various forms and will build a database of inspections and the shortcomings noticed during inspection.

This is ready for launch but you need to fill up data of actual inspection carried out during this year so far (calendar year). Further details will be provided to you by PED/Transformation.

You may please direct all your officers to familiarize themselves with the nuances of the application and start using them.

With best wishes,

Yours sincerely,


(Ashwani Lohani)

General Managers
All Zonal Railways
Indian Railways



मण्डल रेल प्रबंधक
दिल्ली मण्डल
उत्तर रेलवे, नई दिल्ली
DIVISIONAL RAILWAY MANAGER
DELHI DIVISION
NORTHERN RAILWAY, NEW DELHI
PHONE : 23343659(O) FAX: 23346952

No.DRM/Misc/2018

8th May 2018

Dear Sir/Madam,

Sub: Implementation of e-inspection App enabling paperless inspections

Ref: CRB's letter No.2017/Transf.Cell/Go Digital dated 24.4.2018

Kindly find enclosed herewith the above referred letter from Chairman/Railway Board mandating pan-India implementation of e-Inspection App developed by Delhi Division (called DIRECTOR), which enables paperless inspections and data analysis for generation of management reports. In regard to above, the user manual and login IDs with passwords are enclosed herewith for further action at your end. As directed by CRB, you may like to start filling up the data of actual inspections carried out by officers through this App.

It is also requested that feedback/suggestions regarding this App, if any, may kindly be given at edpcenter7@gmail.com.

With best wishes,

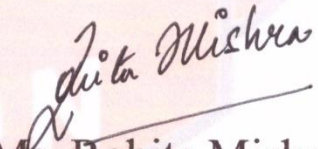

(R. N. Singh)
DRM/Delhi

**All DRMs
Indian Railways**

Foreword

e-Inspection is the digital solution to the issue of archaic paper inspections. The application assists officers to record their various inspections online while they are on the go. Completed inspections are automatically organized and provide standardized dashboard for real time managerial analysis along with an easy one click report generation. Additional features of this software are:

- ❖ SIRI (See It Report It) use the camera of your smart phone to report abnormalities.
- ❖ Instant alert SMS/Auto Call/e-mails to the concerned officials for speedy redressal.
- ❖ Database to provide real time analysis, along with ranking (top 5 & bottom 5) of trains/stations, so as to foster a culture of improvement (kaizen)


Ms. Rohita Mishra
Sr. EDPM/Delhi Division
Northern Railway

User Manual Index:

S. No.	Description	Page No.
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USER MANUAL

e-Inspection Software. (also called DIRECTOR)

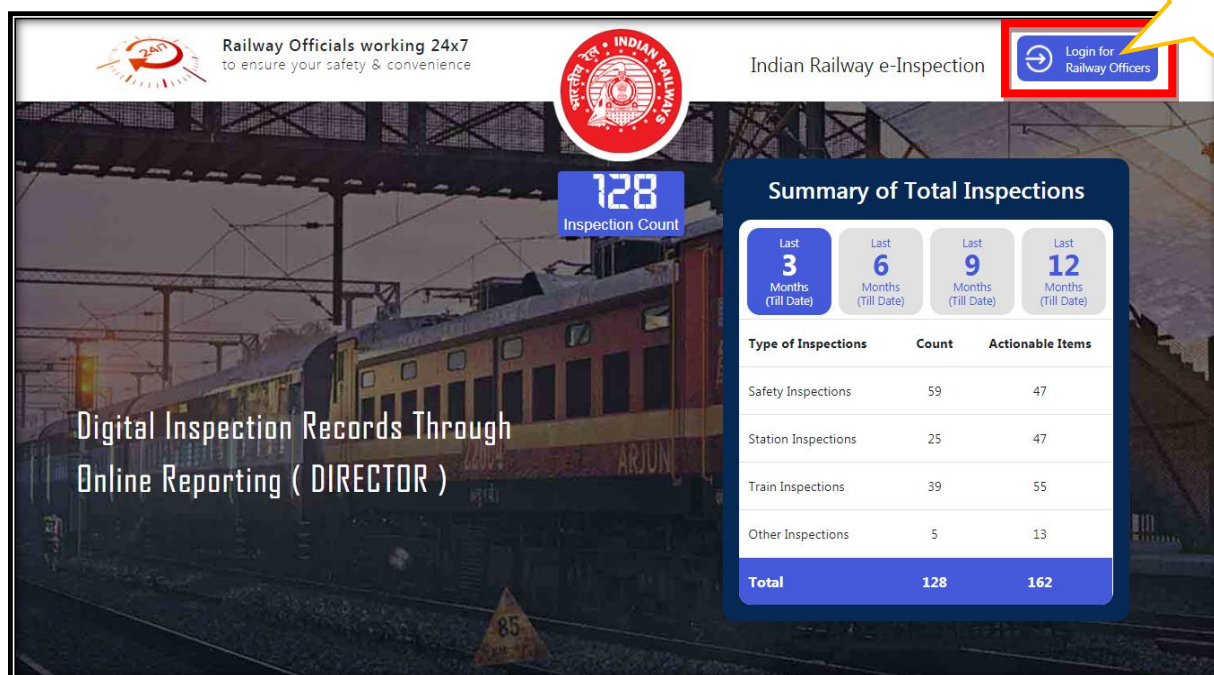
Digital Inspection Records Through Online Reporting (DIRECTOR)

How to login into the e-Inspection application?

(A) Inspections:

Step-1: On web browser (Google Chrome, Mozilla Firefox) go to the home page <http://einspection.in/> and click on login for railway officers. The mobile App. is also available on android and apple play store, which can be downloaded on your mobile phones.

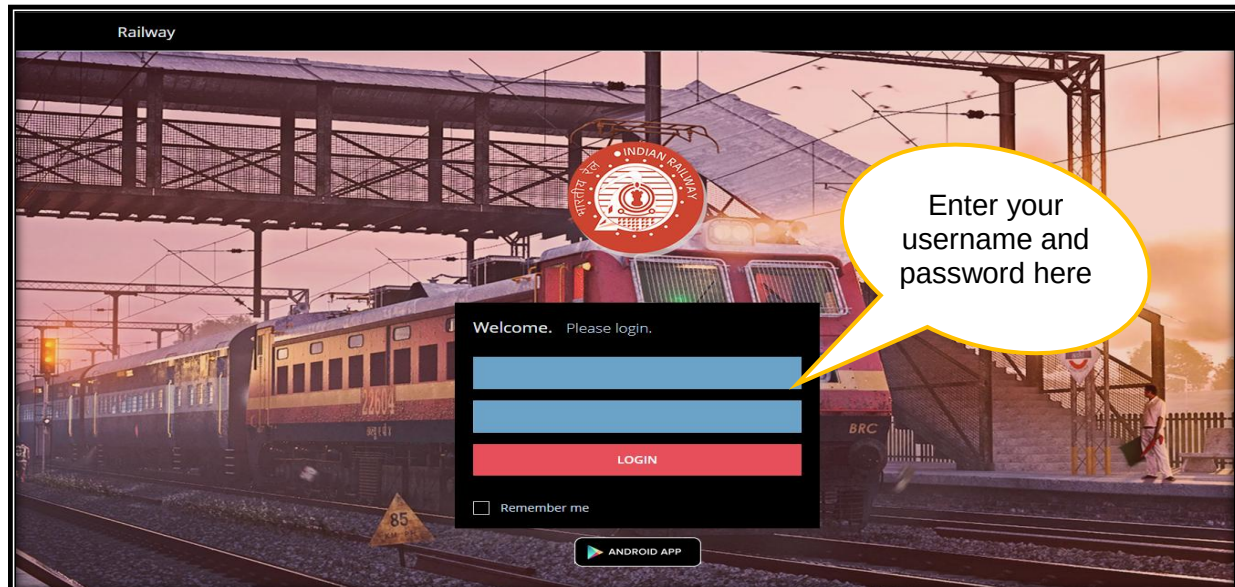
Home Page



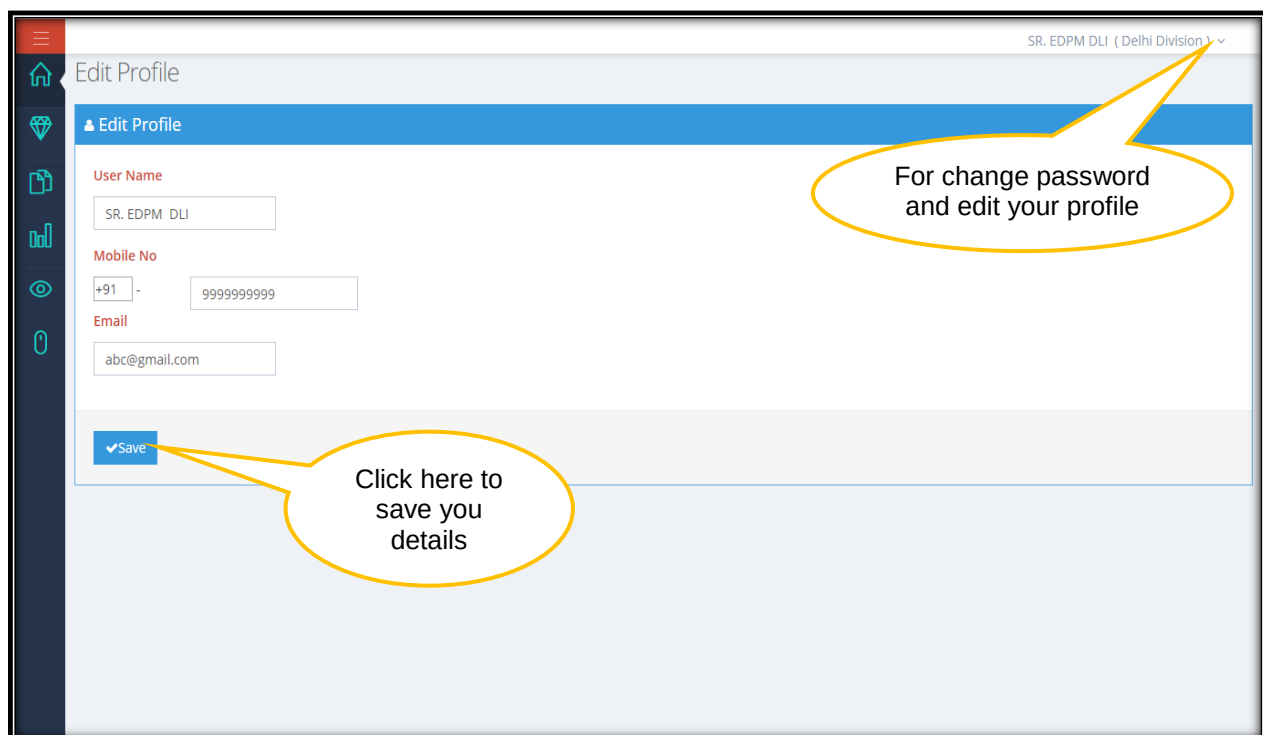
Railway officers to click here for login

Division/HQ specific Login IDs/ passwords have been created and are enclosed herewith, which can be used for login.

Step-2: After clicking “Login for Railway Officers” button, following login screen will appear -



Step-2 (a): After login for first time please **change your password and edit your profile** to fill in your mobile number and email id only after which you will receive SMS and emails from e-Inspection software.



Step-3: After entering your username and password, click on Login button and you will get following screen, having icons on top bar for 07 different types of inspections: –

The screenshot displays the 'INSPECTION DETAIL' form within a web application. The form is structured as follows:

- 1. From Station ***: Text input field for the starting station.
- 2. To Station ***: Text input field for the destination station.
- 3. Departure Time ***: Time selection field, currently showing 2:30 PM.
- 4. Arrival Time ***: Time selection field, currently showing 2:30 PM.
- 5. Inspected By**: Text input field containing 'Rohita Mishra'.
- 6. Designation**: Text input field containing 'Sr. EDPM'.
- 7. Date of Inspection ***: Date selection field.
- 8. Section ***: Dropdown menu with the option '--Select Section--'.

A 'Save' button is located at the bottom left of the form area. A 'Submit Inspection' button is located at the bottom right of the page. The top navigation bar includes icons for Dashboard, Footplate, Pre Departure, Station, On Board, Level Crossing, Running Room, Siri, and Others. The user's name 'Rohita Mishra (Delhi Division)' is displayed in the top right corner.

Step-4: First screen comprises 07 pre-defined Inspection modules on the top bar, namely:

- Footplate Inspection,
- Pre Departure Inspection (detailed train inspection),
- Station Inspection,
- On Board Inspection,
- Level Crossing Inspection,
- Running Room Inspection,
- SIRI (See it Report It)
- Others (for any other type of scanned or typed report)

1. As you select a particular type of inspection, the relevant tabs therein will appear on side bar. Each tab contains a check – list of items which appear on screen. For example if you click on FOOTPLATE inspection and the first tab on Inspection Details, the following screen will appear:

The screenshot shows the 'Footplate Inspection' interface. At the top, a horizontal bar contains icons for various inspection types: Dashboard, Footplate (highlighted), Pre Departure, Station, On Board, Level Crossing, Running Room, Siri, and Others. A callout 'Footplate Inspection tab' points to the 'Footplate' icon. On the left, a vertical sidebar lists 'Inspection Detail' and other options. A callout 'Inspection Detail Section' points to the 'Inspection Detail' option. The main content area is titled 'INSPECTION DETAIL' and contains a form with the following fields: 1. From Station * (Station Name), 2. To Station * (Station Name), 3. Departure Time * (2:30 PM), 4. Arrival Time * (2:30 PM), and 5. Inspected By (SR. EDPM DLI). A red rectangular box highlights the first four fields, and a callout 'Check – list of items to be filled in' points to this box. The top right corner of the screen displays 'SR. EDPM DLI (Delhi Division)'.

2. Under every type of inspection, the first tab named **‘Inspection Detail’** is mandatory. Firstly, you have to fill the relevant information under above tab, only after then you can move on to the next tab on side bar, once you save the first tab then the remaining tabs will be activated and you can fill them one by one. All subsequent tabs are optional. For example, in Footplate Inspection, there are tabs like Train/Loco Info, Crew Details, Loco Safety Items, Safety Equipments, Crew Working, Track Aspect During Run, Signal and Upload Document tabs, though only “Inspection Details” tab is mandatory. Each tab has got a check – list of items which can be filled up online as relevant.

Following screen shows the check – list of items under “Crew Working” tab.

SR, EDPM DLI (Delhi Division)

Dashboard | Footplate | Pre Departure | Station | On Board | Level Crossing | Running Room | Siri | Others

Inspection Detail | Train/Loco Info | Crew Details | Loco Safety Items | Safety Equipments | **Crew Working** | Track Aspect During Run | Signal | Upload Document

CREW WORKING

1. Whether Brake Feel Test done by LP ?
☐ Yes ☐ No
Please Enter Details or Abnormalities
2. Whether LP was whistling on L-Xing ?
☐ Yes ☐ No
Please Enter Details or Abnormalities
3. Whether Crew observing Engineering Speed restriction ?
☐ Yes ☐ No
Please Enter Details or Abnormalities
4. Whether LP/ALP exchanges alright with guard on curves ?
☐ Alert ☐ Not Alert
Please Enter Details or Abnormalities
5. Whether LP and ALP Loudly call out signal aspect ?
☐ Yes ☐ No
Please Enter Details or Abnormalities
6. VCD is working or not ?

3. Once you have finished all the tabs, please click on “Save” button at left corner of the page and can finally submit the inspection report after filling up all tabs, by clicking on “Submit Inspection” tab at the bottom right corner of screen.

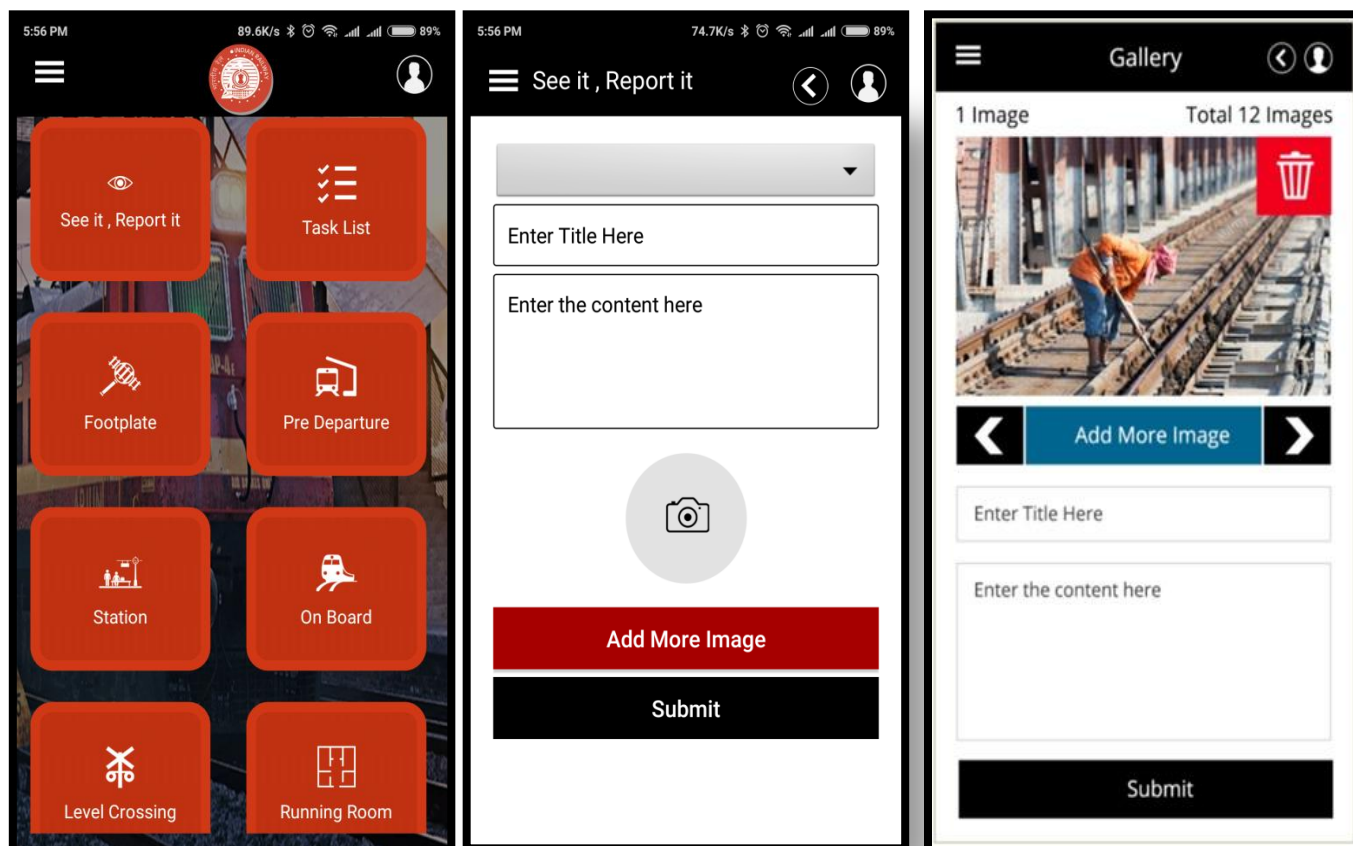
--Select Section--

Save

To submit click here

Submit Inspection

(B) SIRI – SEE IT REPORT IT (*reporting by taking and uploading photographs*). The icon of SIRI will be visible on mobile App., which can be used to highlight a deficiency by uploading a photo, which picks up the precise location of the photo on Google Map.



SIRI report as communicated to concerned deptt.

Reported Complaints						
<div> <div>Select Department</div> <div>From Date</div> <div>To Date</div> <div>+ Search</div> </div>						
<div> <div>Engineering</div> <div>2018-04-01</div> <div>2018-05-02</div> </div>						
Image	Abnormality	Department	Reported By	Date Time	Abnormality Location	Priority
	FOB cover at Delhi main broken FOB covering broken. To be repaired immediately	Engineering	ADRM/INFRA/DLI (ADRM-1)	28 April, 2018, 10:05 am	FOB at DLI	High

(C) MANAGEMENT REPORTS

- 1- On submission of inspection report, the complete report in pre-designated proforma will reach all the relevant officials/officers through respective emails. The exception report of abnormalities (department wise) will go selectively only to respective officers of that particular department.
- 2- Following type of Reports can be generated by this software.

Types of reports: -

- (I) **Chronological Summary of Inspections done by various officers:** Summary of different types of inspection or all inspections (e.g. Footplate, Pre-Departure Train, Station Inspection, On Board, Level Crossing, Running Room and Other Inspections) can be reviewed at a glance. Besides, a complete inspection report will reach through email to concerned branch officer, there are individual abnormality reports being sent to officers and there is score card which gives complete scoring of every inspection conducted.

To generate Inspection reports

The screenshot displays the 'Station Inspection Search' interface. At the top, there is a search bar with fields for 'Station', 'Designation' (set to 'All'), 'From Date' (2018-04-03), and 'To Date' (2018-05-03). A 'Search' button is located below these fields. Below the search bar is a 'Report' section containing a table with 11 rows of inspection data. Each row includes columns for 'No.', 'Inspection Date', 'Station', 'Inspection By', 'Designation', and 'Action'. The 'Action' column contains four buttons: 'View', 'Export', 'Abnormal', and 'View Scored'. A yellow callout bubble points to the 'Search' button with the text 'To generate Inspection reports'.

No.	Inspection Date	Station	Inspection By	Designation	Action
1	03/May/2018	NEW DELHI	SR. EDPM DLI	SR. EDPM	View Export Abnormal View Scored
2	02/May/2018	DELHI SARAI ROHILLA	Vinod Kumar Singh	SR. DEE-1	View Export Abnormal View Scored
3	02/May/2018	DELHI SARAI ROHILLA	SR. EDPM DLI	SR. EDPM	View Export Abnormal View Scored
4	01/May/2018	NEW DELHI	SR. EDPM DLI	SR. EDPM	View Export Abnormal View Scored
5	30/Apr/2018	BADLI	SR. EDPM DLI	SR. EDPM	View Export Abnormal View Scored
6	25/Apr/2018	GHAZIABAD	SR. DME-1 DLI	SR. DME-1	View Export Abnormal View Scored
7	25/Apr/2018	DELHI SARAI ROHILLA	SR. DFM-1 DLI	SR. DFM-1	View Export Abnormal View Scored
8	25/Apr/2018	KARNAL	SR. DFM-2 DLI	SR. DFM-2	View Export Abnormal View Scored
9	25/Apr/2018	DELHI CANTT.	SR. EDPM DLI	SR. EDPM	View Export Abnormal View Scored
10	24/Apr/2018	DELHI SARAI ROHILLA	SR. DME-1 DLI	SR. DME-1	View Export Abnormal View Scored
11	24/Apr/2018	ANAND VIHAR TERMINAL	SR. DFM-1 DLI	SR. DFM-1	View Export Abnormal View Scored

(II) Managerial Reports:

- (i) Section wise abnormality matrix - Select the “section” and see all the abnormalities found in previous inspection reports for that section. This would help to identify major issues pointed out repetitively in all footplate inspections for that specific section.

Abnormality	2018-04-25	2018-04-24	2018-04-20	2018-05-04	2018-04-26	2018-04-21	2018-04-23	2018-04-26	2018-04-23
Whether any SR board missing ?									
Wrongly Located Caution Boards List							×		
Whether W/L board provided at approach of LC ?				×	×	×	×	×	
Whether TP/TG board missing after SR ?							×		
Any bad running experienced in section ?									
Whether any Gateman was not alert ?									
Poor visibility of Signals during run									
Exchanging of all right signal									
Signal visibility obstructed due to trees ?						×		×	
Signal Bobbing	×								
Exchange of alights signal at station				×					
Any Other Abnormality									
Any Other Abnormality									
Whether Signal visibility is obstructed due to background Lights ?									
Whether Signal aspect sequence was wrong ?									
Whether some signal showing Multiple aspects ?									

- (ii) Inspection date wise matrix - Select the “time period” and get a summary of all types of inspections conducted by various officers in that period.

Date of Inspection	SR. DCM-1	SR. DSTE-1	SR. DEN-2	SR. EDPM	SR. DEN-1	SR. DOM-4	SR. DCM-2	SR. DSO	SR. DSTE-2	ADRM-1
2018-04-11				PDP						
2018-04-13				FP						
2018-04-20		LX								
2018-04-21	SI		LX	RR						
2018-04-22	FP					FP	FP			
2018-04-23	OB	FP		PDP	SI	FP	FP	LX	FP	
2018-04-24	PDP				FP	FP	FP			
2018-04-25				PDP						
2018-04-26				OB						
2018-04-27										OTHERS
2018-04-28				PDP						
2018-04-30				SI						
2018-05-01				SI						

- (iii) Inspection summary report - Select the “time period” and find the number of inspections undertaken by each divisional officer.

SR. EDPM DLI (Delhi Division)

Inspection Summary Report Search

From Date

2018-04-07

To Date

2018-05-08

+ Search

Inspection Summary Report

DesignationName	FP	OTHERS	PDP	SI	OB	LX	RR
SR. EDPM	14		31	8	9	1	2
SR. DCM-1	6		1	2	1		
SR. DCM-2	4						
SR. DEN-1	3			1	1		
SR. DEN-2			1			1	
SR. DOM-4	5						
SR. DSO						1	
SR. DSTE-1	1					1	
SR. DSTE-2	1						
ADRM-1		1					

- (iv) Train specific OBHS performance - Select “Train” and “time period” to see exception reports of that period along with score card of that train for each inspection.

SR. EDPM DLI (Delhi Division)

Train OBHS Performance Rating Search

Select Train

NDLS - DBRT RAJDHANI - 1

From

2018-03-01

To

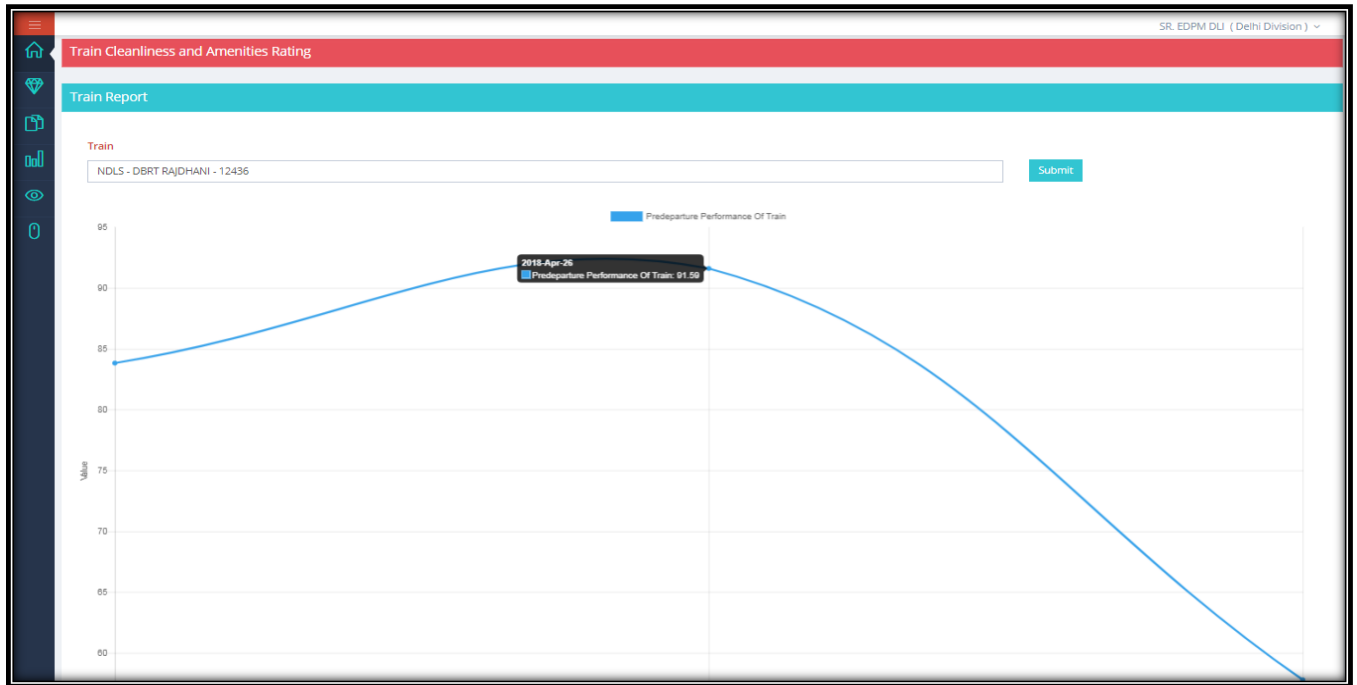
2018-05-08

+ Search

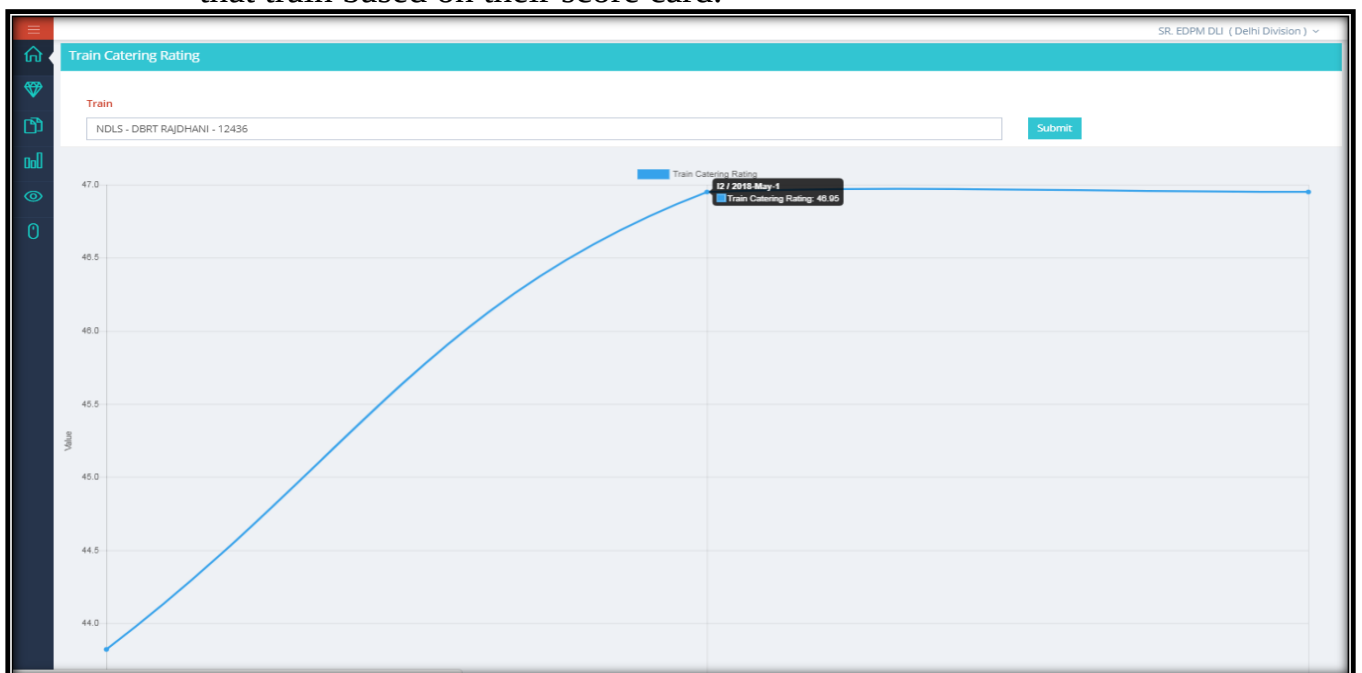
Train OBHS Performance Rating

Abnormality	2018-05-01	2018-05-02	2018-04-23
Availability of OBHS staff in Nos			
Whether in uniform with name plate ?			
Availability of cleaning rolls with branded material as per list			
Whether separate duster cloth is used for toilet and compartment cleaning ?			
Whether cleaning is being attended at regular intervals without complaint			
Whether toilettries are being recouped in toilets by OBHS staff			
At the time of cleaning whether cleaning kit is being carried			
Whether display of OBHS Service sticker with no. in coaches	×		
Mock complaint to be raised on 58888 to check response of OBHS staff as per `Clean My Coach `Service	×		
Toilets were clean, dry and without odour			
Coach was clean, dry and with good fragrance			
Whether Toilet Floors were Wet ?			
Whether Toilet Walls are Dirty ?			
Whether Toilet having Bad smell ?	×		

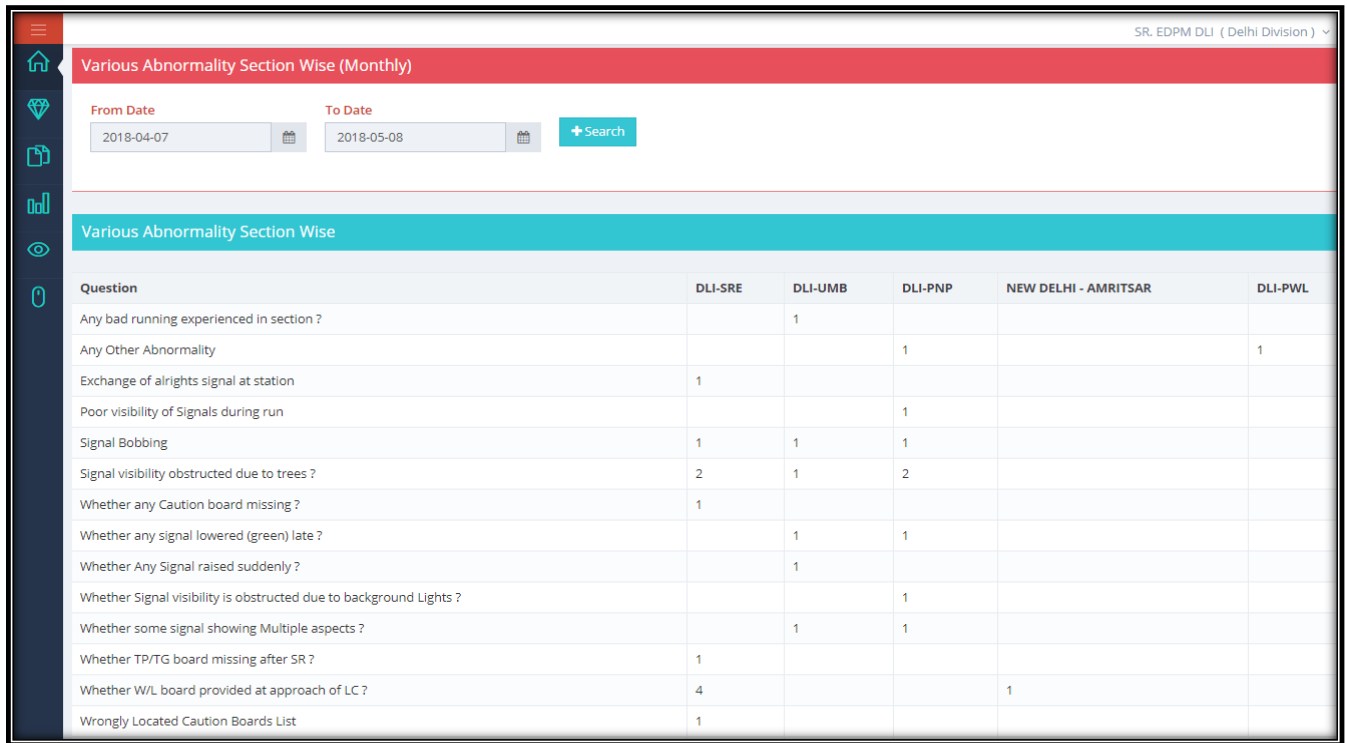
- (v) Train specific cleanliness and amenities trend - Select “Train” and then based on Pre-departure/detailed train inspection module the trend of specific train can be analyzed on these parameters based on their score card.



- (vi) Train specific catering trend - Similarly select “Train” and get details of catering trend of catering on that train over multiple inspections of that train based on their score card.



(vii) Major abnormalities section wise - Select “time period” and various abnormalities over different sections can be seen.



SR. EDPM DLI (Delhi Division)

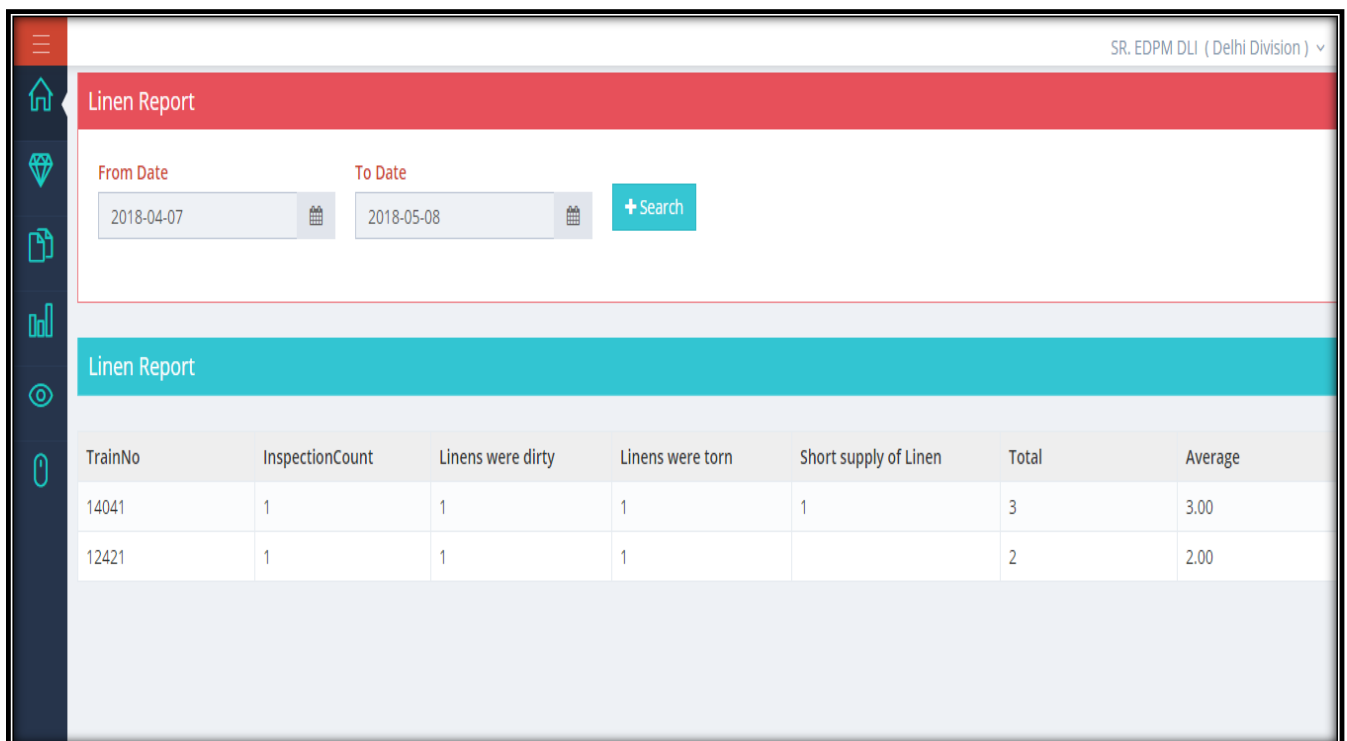
Various Abnormality Section Wise (Monthly)

From Date: 2018-04-07 To Date: 2018-05-08 + Search

Various Abnormality Section Wise

Question	DLI-SRE	DLI-UMB	DLI-PNP	NEW DELHI - AMRITSAR	DLI-PWL
Any bad running experienced in section ?		1			
Any Other Abnormality			1		1
Exchange of alights signal at station	1				
Poor visibility of Signals during run			1		
Signal Bobbing	1	1	1		
Signal visibility obstructed due to trees ?	2	1	2		
Whether any Caution board missing ?	1				
Whether any signal lowered (green) late ?		1	1		
Whether Any Signal raised suddenly ?		1			
Whether Signal visibility is obstructed due to background Lights ?			1		
Whether some signal showing Multiple aspects ?		1	1		
Whether TP/TG board missing after SR ?	1				
Whether W/L board provided at approach of LC ?	4			1	
Wrongly Located Caution Boards List	1				

(viii) Linen report - Helps to get trend on train specific linen report.



SR. EDPM DLI (Delhi Division)

Linen Report

From Date: 2018-04-07 To Date: 2018-05-08 + Search

Linen Report

TrainNo	InspectionCount	Linens were dirty	Linens were torn	Short supply of Linen	Total	Average
14041	1	1	1	1	3	3.00
12421	1	1	1		2	2.00

- (ix) Station specific performance trend Gives number of inspections conducted on various stations and average score.

SR. EDPM DUJ (Delhi Division)

Station Report

From Date

2018-04-07

To Date

2018-05-08

+ Search

Station Report

StationName	StationCategoryName	InspectionCount	Circulating Area	Booking/Enquiry Counters & Concourse	Standard of Cleanliness	Passenger Amenities	Train	Total	Average
DELHI SARAI ROHILLA	A	5	8	10	1	5	6	30	6.00
NEW DELHI	A1	7	5	8	1	9	1	24	3.43
DELHI CANTT		1	7	1	1	1		10	10.00
DELHI JN.	A1	1		1				1	1.00

(III) Monthly Reports to be sent via e-mal to DRM/GM:

- ❖ Also reports regarding ranking of trains, ranking of station on different parameters would be mailed to respective DRM and GM's periodically.



(D) DASHBOARD

Divisional officers can access the **DASHBOARD** for their division on clicking at the following tab:

To access dashboard



(E) For Admin Login

In each Division and Zonal HQ, Sr. EDPM will be the ‘**Administrator**’ for the software. “Admin” will have to fill in the master data for section details of their zone. This will enable the officers to use module on Footplate Inspection. Admin can also edit train/station/running room/ level crossing details and also upload the inspection duty roster

Step–1: On web browser (Google Chrome, Mozilla Firefox) go to the home page <http://einspection.in> the “Administrator” has to log in from his/her admin login. On the following screen:

Step–2: From here admin can Add/update Train, Add/update Station with category, Add/update Running Room, Add/update Section and import the inspection roster of its division.

Train and Station details have been fed to start with; please feed your section and running room.

Admin can also import the inspection roster of all officers which can then be viewed in “**schedule of inspection**”.

Please contact support for e-Inspection application issues:

Ms. Rohita Mishra (IRAS)

Sr. EDPM/Delhi Division, Northern Railway.

Nikhil Malik/ IT Assistant EDP Centre, Delhi Division.

Contact number: 011-23365296; (Whatsapp. Only: +91-9289379145)

Helpline No. : +91-8076921040 (Office Hours 1000-1800 hrs)

Email at: rail.support@indicsoft.com and edpcenter7@gmail.com