

SLAM ZONAL DASHBOARD

SLAM OVERVIEW

- The System for Locomotive Asset Management (SLAM) project is for management of Electric Locomotive for Loco Maintenance, Operation, Schedules Planning, Execution and Monitoring
- This software system envisages development of software for interlinking sheds, divisional/Zonal headquarter TLC and Trip sheds.
- Besides management at loco sheds it aims to provide a portal based Custom built application module for providing specified functionalities. The System for Locomotive Asset Management (SLAM) has been developed using web technology and is deployed on web based central server

Overview of SLAM Module

ELS

- SLAM Application Supports Management of Electric Locomotive for Loco & Equipment Maintenance, Operation, Schedules Planning, Execution, Loco & Equipment transfer and Monitoring. Failure Analysis, Preventive Maintenance, Lab Management, Analytical Reports, dashboard etc

TLC

- Using SLAM Application one can get Instant information of electrical locomotives.
- Record and monitor line failure details
- Loco movement details of overdue Loco's and send loco's to TS/ELS
- Loco tracking information

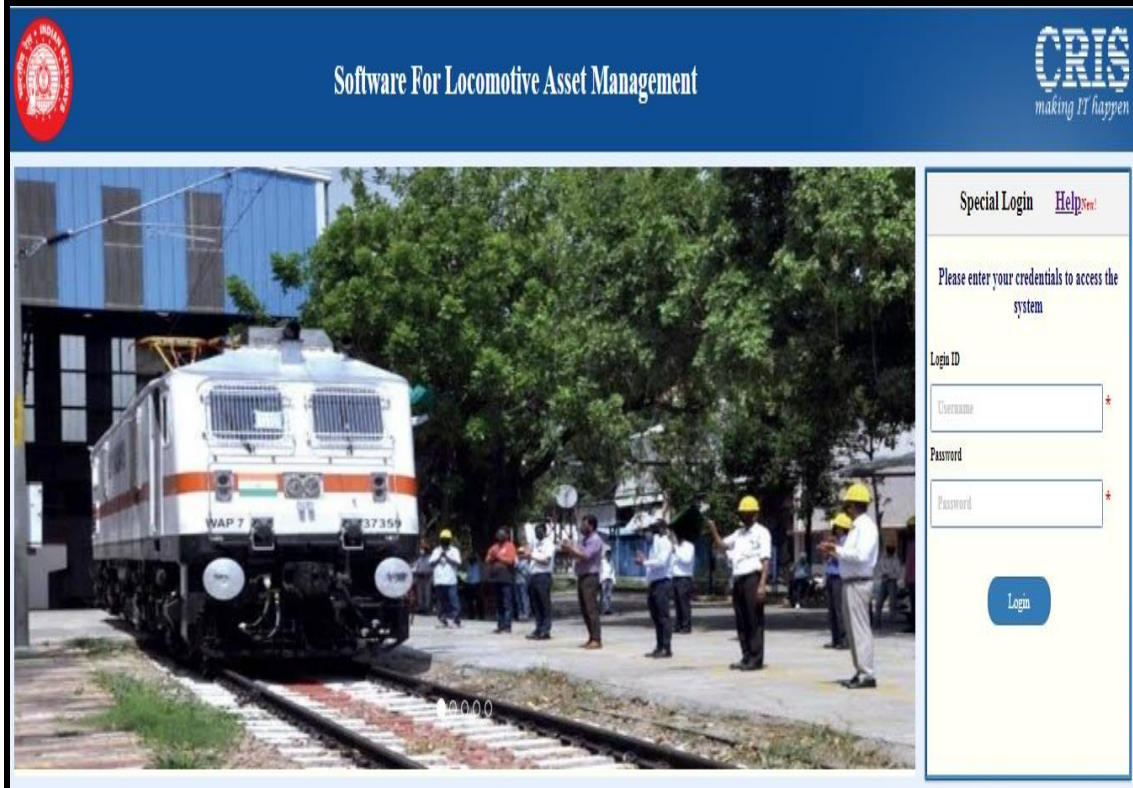
TS

- Instant information of electrical locomotives
- Accelerate the loco/trip shed maintenance & support activities.

Overview of Zonal HQ Module

- To monitor Overdue locos (Minor & Major), Asset Failures, Turnaround Time Taken for schedules (Minor & Major) and Forecast status of all the divisions which are under their zones
- Line failures, ICMS failures, ELS daily planning, Line failure defect summary, Ready Locos (On date) and Dispatched Locos (On date), Unscheduled Loco visits (Last 30 days)
- Using SLAM Application Zonal Head quarters can monitor all the above on daily basis and give appropriate instructions if needed

SLAM Login



Software For Locomotive Asset Management

CRIS
making IT happen

Special Login [Help](#)

Please enter your credentials to access the system

Login ID

Username *

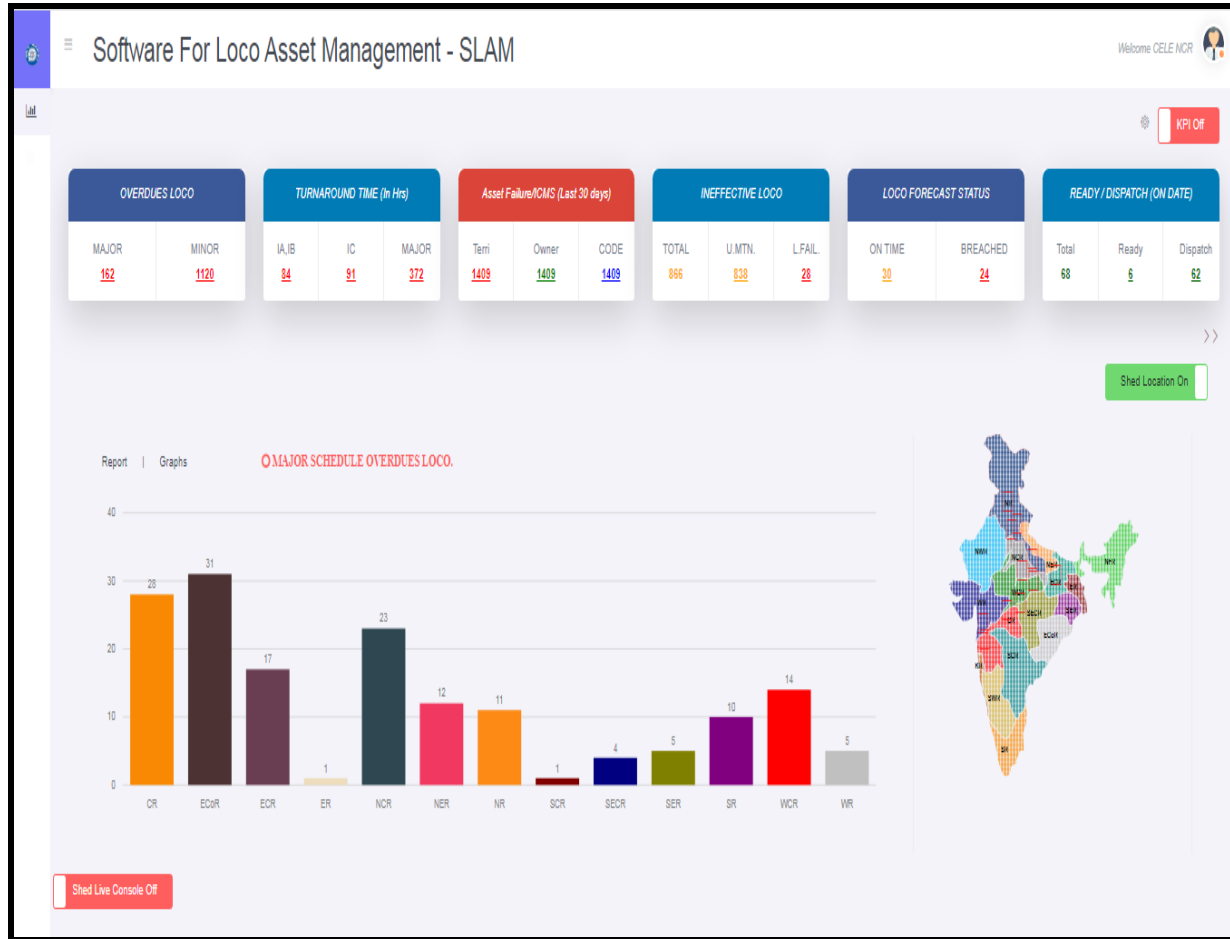
Password

Password *

Login

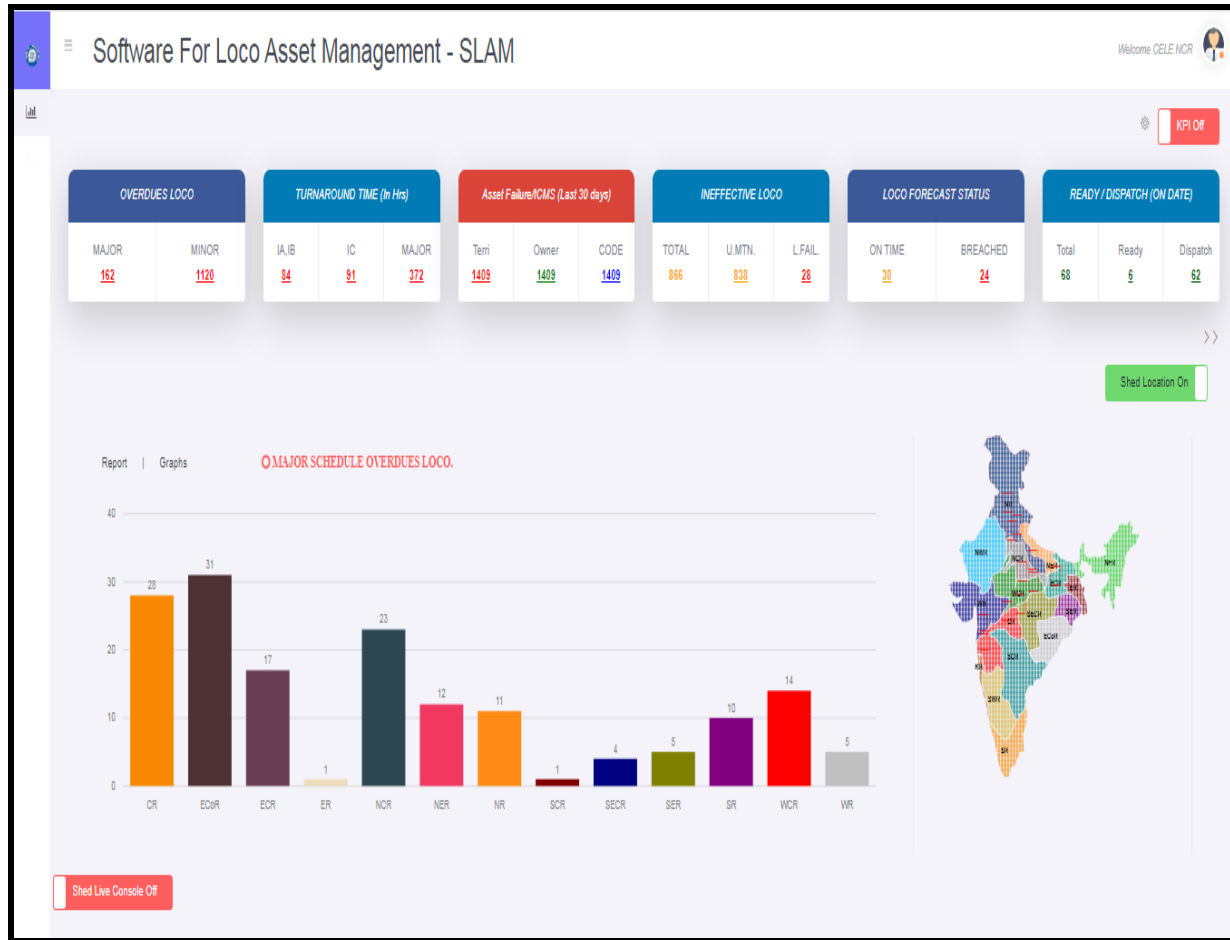
- User has to login into SLAM application using this credentials shown in the screen

SLAM Dashboard



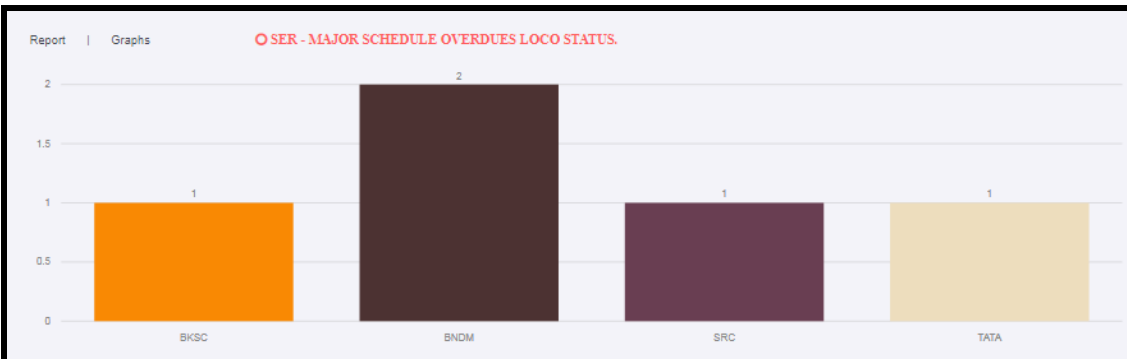
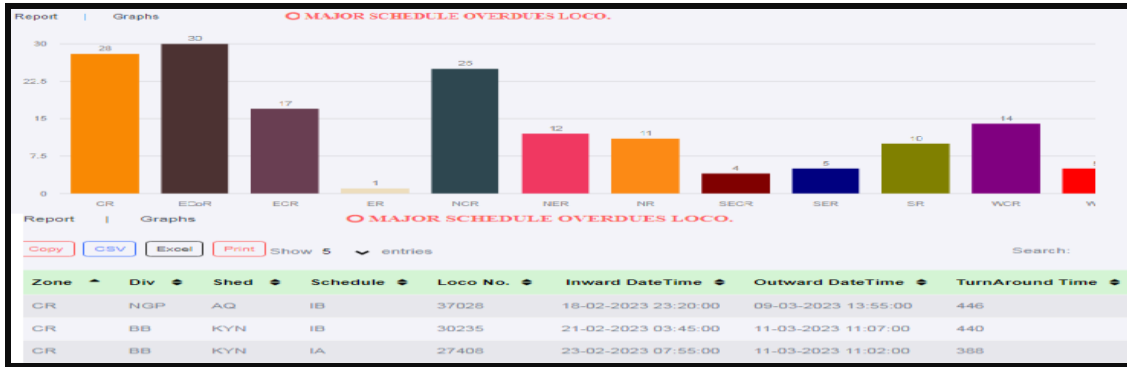
- Zonal Dashboard displays the overview position of Major Overdue Loco, Minor Overdue Loco ,Turnaround Time(In Hrs) ,Asset Failure/ICMS (Last 30 days),Ineffective Loco, Loco Forecast Status, Ready / Dispatch (On Date)
- We need to click on the number hyper link in each KPI column to get the result in graphical representation and tabular form
- In bar graph the bar which is blinking shows the current zone status
- The result can be represented in two ways : 1)Report 2)Graph

SLAM Dashboard



- In the application all the information is in Graphical and Tabular forms
- Graphical form facilitates the total count for each zone in a bar chart
- Tabular Form Facilitates reports of each zone with a search option, sort option and select No. of entries
- Reports can be downloaded as CSV and Excel .Copy option is also there. Print option is for printing

Over Due Locos(Major)

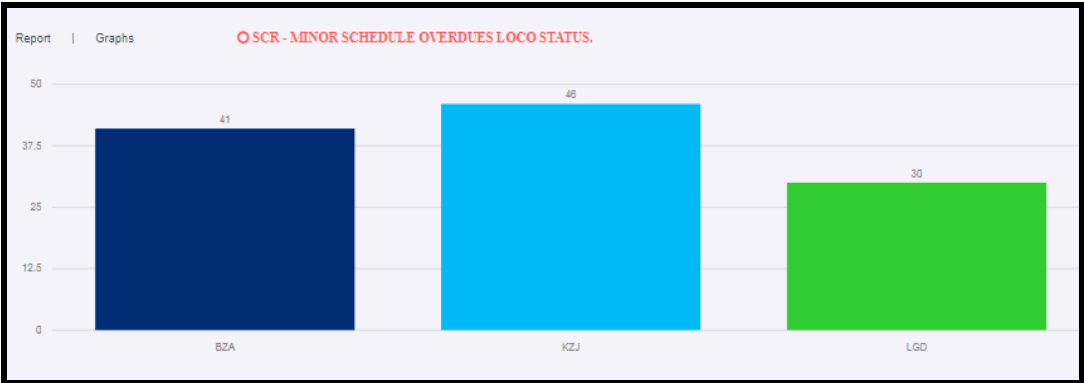


- User Can view the details of Major schedule overdue locos in tabular form and graphical form
- User can view overdue position of divisions (ELS) on clicking Zone bar in graph.

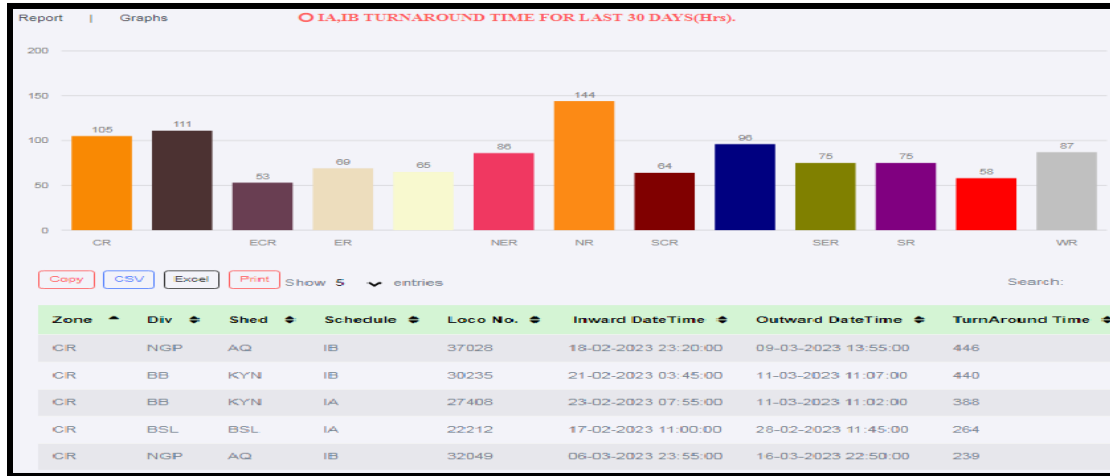
Over Due Locos(Minor)



- User Can view the details of Minor schedule overdue locos in tabular form and graphical form
- User can view overdue position of divisions (ELS) on clicking Zone bar in graph.



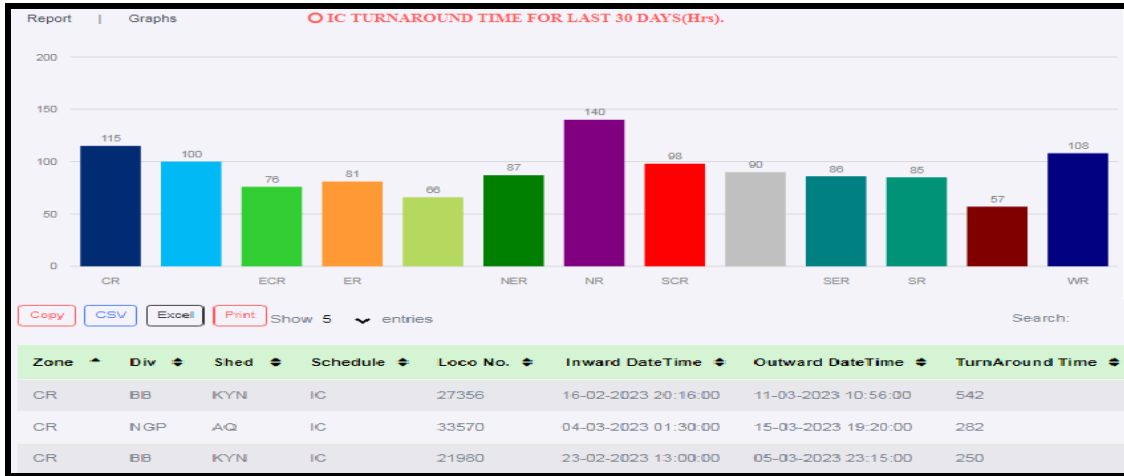
Turnaround Time (IA, IB)



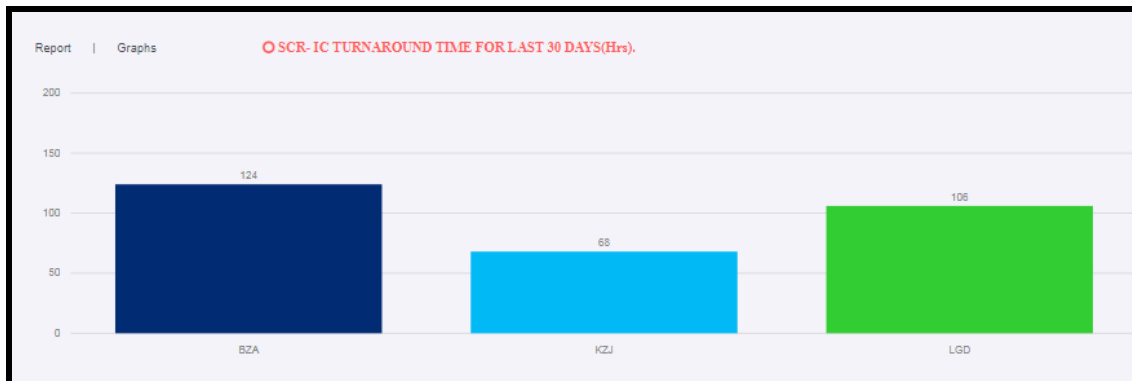
- This screen shows the Overview position for IA & IB schedules for the last 30 days in tabular form and graphical form
- We can view ELS wise Turn Around status when we click on particular ZONE bar



Turnaround Time (IC)



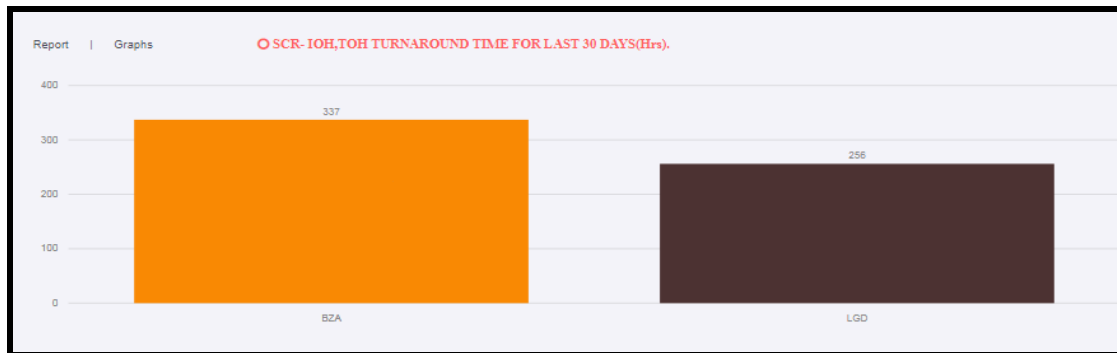
- This screen shows the Overview position of last 30 days for IC Schedule in graphical form and tabular form
- We can view ELS wise Turn Around status when we click on particular ZONE bar



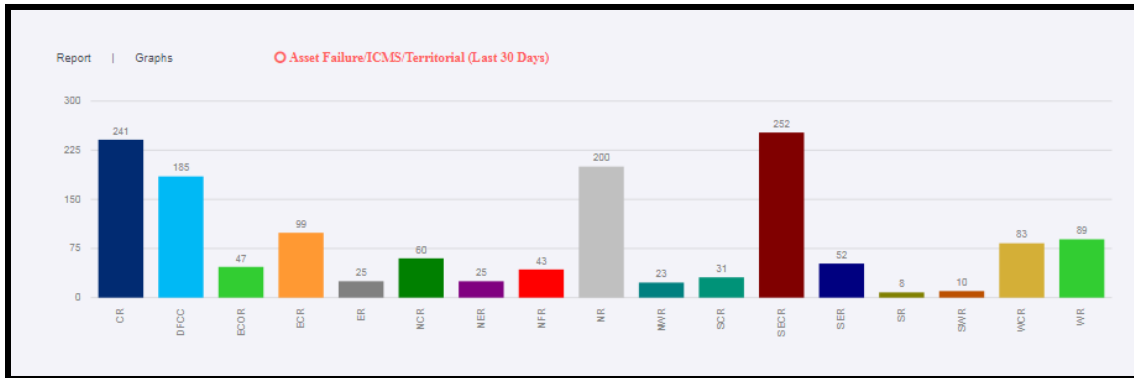
Turnaround Time (IOH, TOH)



- This screen shows the overview position details of last 30 days records of major schedule (IOH,TOH) schedules in graphical form and tabular form
- We can view ELS wise Turn Around status when we click on particular ZONE bar



Asset Failure/ICMS (Territorial)



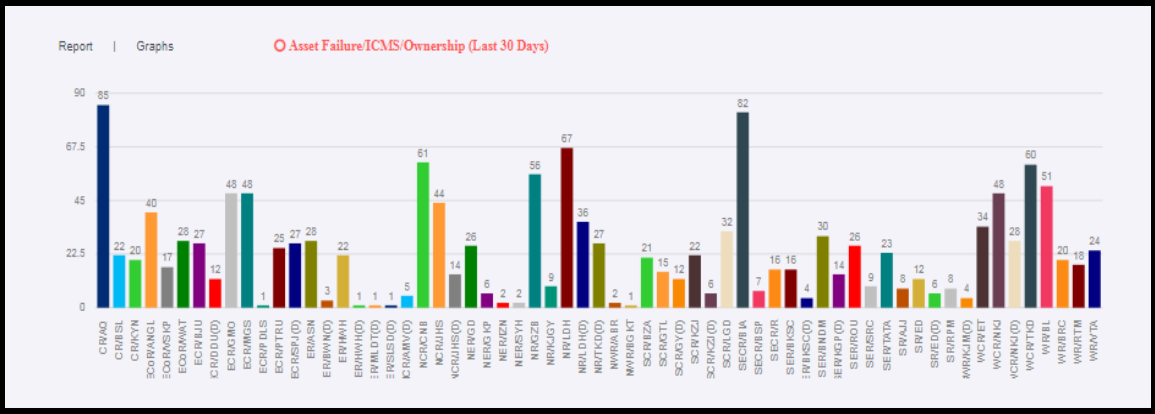
- User can view the overview position of territorial locos for the past 30 days (Locos failed in our division) in graphical form and tabular form ,but unable to view division wise.

Report | Graphs ○ Asset Failure/ICMS/Territorial (Last 30 Days)

Copy CSV Excel Print Show 25 entries

Ownership	Territorial															
ZONE/DIVISION/SHED	CR	ECoR	ECR	ER	NCR	NER	NFR	NR	NWR	SCR	SECR	SER	SR	SWR	WCR	W
CR/BB/KYN/ETSK	14	0	0	1	2	0	0	0	0	1	1	0	0	0	1	0
CR/BSL/BSL/BELS	9	0	0	1	0	0	0	3	1	1	3	0	0	0	0	1
CR/NGPIA/Q/ELAJ	23	3	4	0	6	0	1	7	2	2	15	1	0	0	8	6
ECOR/KUR/ANGL/ELSA	6	5	1	0	0	0	0	2	0	1	12	7	0	0	2	2
ECOR/WATV/SKP/DLSV	0	4	1	0	0	0	1	5	0	0	2	1	0	0	0	1
ECOR/WAT/WAT/ELSV	3	10	2	0	0	0	0	1	0	2	5	2	0	0	0	0
ECR/DDU/DDU(D)/DLSU	1	0	0	0	2	0	1	5	0	0	1	0	0	0	0	1
ECR/DDU/MG/S/ELSN	1	2	7	0	4	0	1	7	0	0	9	0	0	0	4	1
ECR/DHN/GMO/ELSG	3	0	11	0	1	0	2	7	0	0	9	3	0	0	3	1
ECR/DHN/PDL S/PDLS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ECR/DHN/PTRU/DLSP	5	1	0	0	1	0	0	4	0	0	4	2	0	0	3	0
ECR/SEE/BJU/ELSH	1	1	3	1	1	0	3	5	1	0	2	0	0	0	1	1
ECR/SPJ/SPJ(D)/DLSN	3	0	11	2	1	0	1	4	1	0	0	0	0	0	4	0

Asset Failure/ICMS (Ownership)



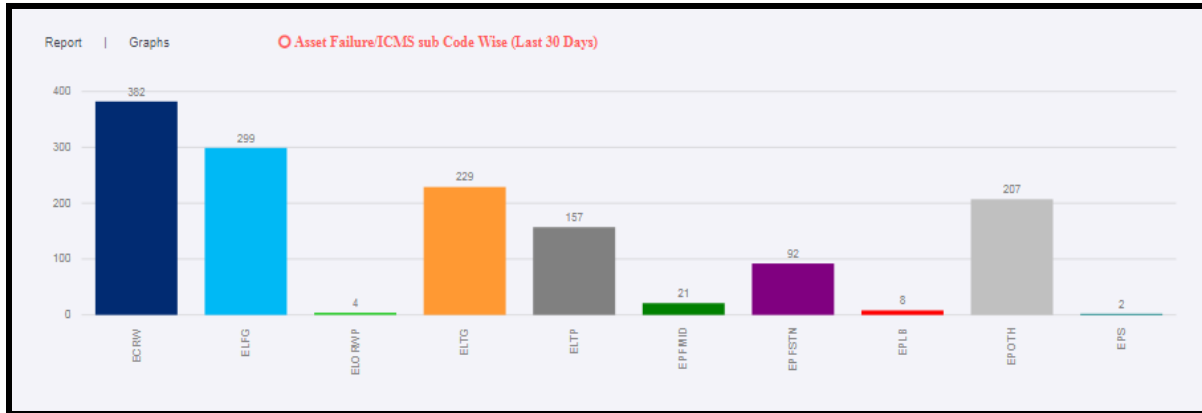
- User can view the overview position of asset failures of ownership locos for the last 30 days (Locos of our division failed at other divisions) showing all div failure locos overview in graphical form and tabular form

Report | Graphs ○ Asset Failure/ICMS Ownership (Last 30 Days)

Copy CSV Excel Print Show 25 entries

Ownership	Territorial															
	CR	ECoR	ECR	ER	NCR	NER	NFR	NR	NWR	SCR	SECR	SER	SR	SWR	WCR	W
CR/BB/KYNIETSK	14	0	0	1	2	0	0	0	0	1	1	0	0	0	1	0
CR/BSL/BSL/BELS	9	0	0	1	0	0	0	3	1	1	3	0	0	0	0	1
CR/NGP/AQ/ELAJ	23	3	4	0	6	0	1	7	2	2	15	1	0	0	8	6
ECoR/KURI/ANGL/ELSA	6	5	1	0	0	0	0	2	0	1	12	7	0	0	2	2
ECoR/WAT/VSKP/DLSV	0	4	1	0	0	0	1	5	0	0	2	1	0	0	0	1
ECoR/WAT/WAT/ELSV	3	10	2	0	0	0	0	1	0	2	5	2	0	0	0	0
ECR/DDU/DDU(D)/DLSU	1	0	0	0	2	0	1	5	0	0	1	0	0	0	0	1

Asset Failure/ICMS (Code)



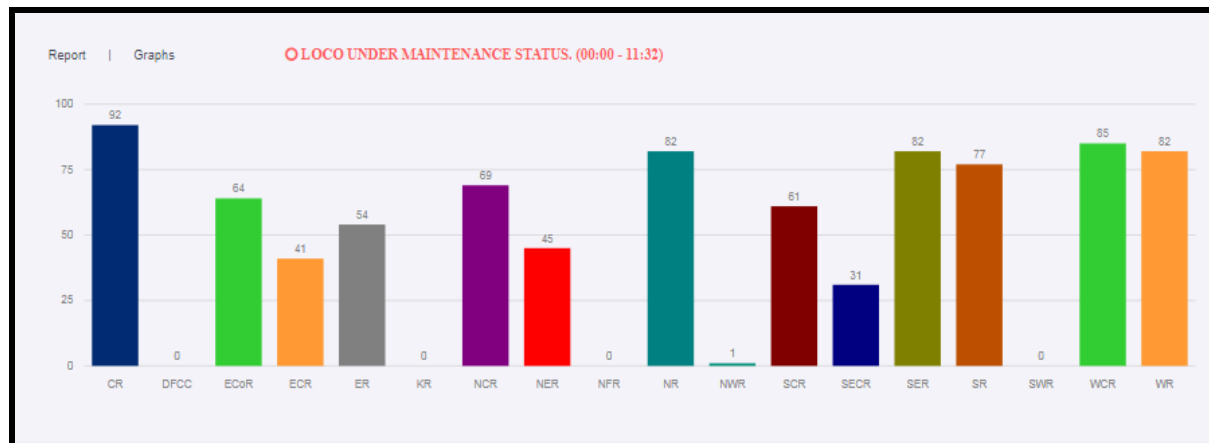
- User can view the position of asset failures for the last 30 days by ICMS Asset Failure Detention Codes/Sub codes in graphical form and tabular form

Report | Graphs ○ Asset Failure/ICMS sub Code Wise (Last 30 Days)

Copy CSV Excel Print Show 25 entries

ICMS Code	CR	ECOR	ECR	ER	NCR	NER	NFR	NR	NWR	BCR	BCR	BER	BR	BWR	WCR	WR	KR	DFCC	TOTAL
ECRW	47	1	8	2	0	7	24	85	10	7	129	30	1	0	6	19	0	6	332
ELFG	67	15	43	5	6	1	4	35	3	9	29	8	3	3	33	24	0	7	299
ELORWP	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	4
ELTO	67	9	15	2	3	2	2	34	1	1	47	13	2	3	13	11	0	4	229
ELTP	30	4	18	6	6	8	6	30	3	2	9	3	0	3	10	14	0	5	157
EPFMID	2	2	0	0	1	1	1	5	0	4	0	0	0	1	1	3	0	0	21

Ineffective Locos (Under Maintenance)



- User views the no. of locos which are Under Maintenance status in graphical manner and tabular form

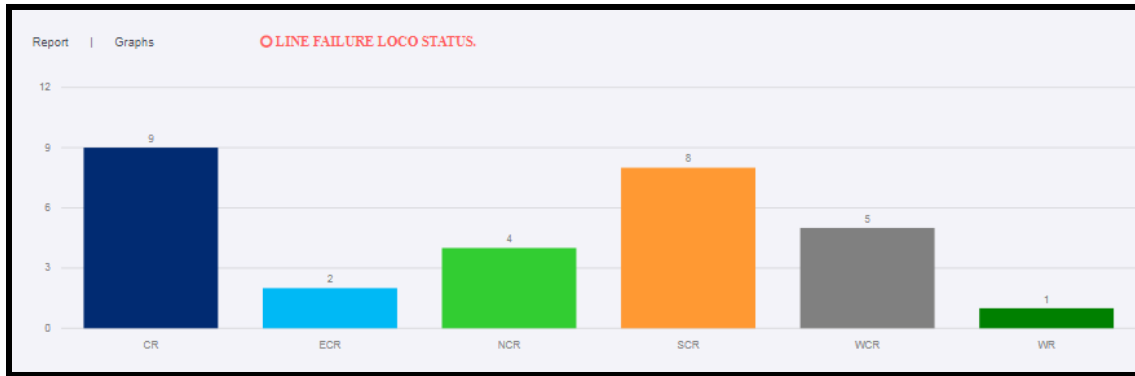
Report | Graphs ○ LOCO UNDER MAINTENANCE STATUS. (00:00 - 11:32)

Copy CSV Excel Print Show 5 entries

Zone	Division	Base Shed	Loco Number	Maint. At	Name	Arrival Time	Arrival Condition	Arrived For	Arrival Remarks
	LGD		30237	POH Shop	BSL	17-09-2022 00:00:00	Working	POH	For POH
	LGD		30415	POH Shop	BSL	30-11-2022 00:00:00	Working	POH	For POH
	GZB		30072	POH Shop	BSL	28-12-2022 00:00:00	Working	POH	For POH
	KYN		21958	POH Shop	BSL	14-12-2022 00:00:00	Working	POH	For POH
	KYN		21962	POH Shop	BSL	20-12-2022 00:00:00	Working	POH	For POH

Showing 1 to 5 of 863 entries

Ineffective Locos (On Line)



- User views details of the online loco failure in graphical form and tabular form

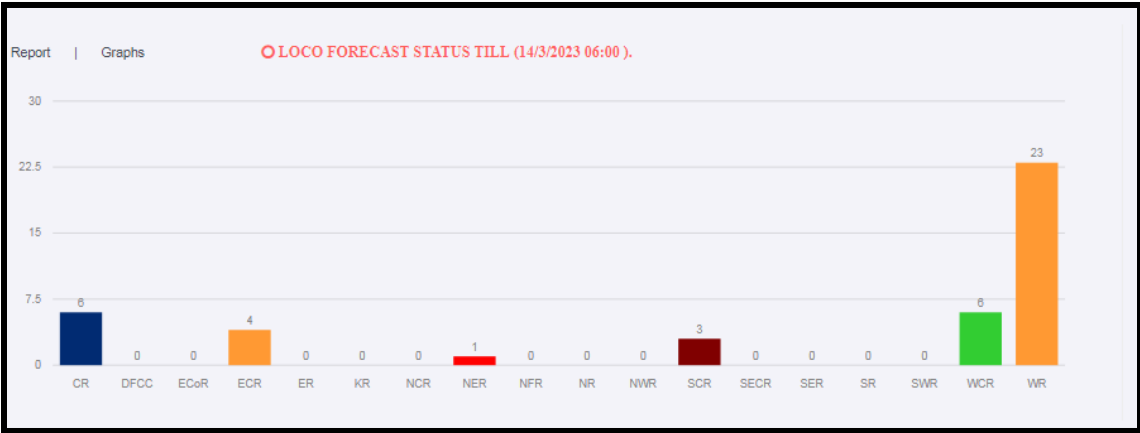
A table titled "LINE FAILURE LOCO STATUS." displaying details of online loco failures. The table includes columns for Zone, Division, Base Shed, Loco Number, Date of Occurrence, Occurrence Remarks, and Territorial Div. The table shows 5 entries, with a note indicating there are 28 entries in total.

Zone	Division	Base Shed	Loco Number	Date of Occurrence	Occurrence Remarks	Territorial Div
CR	NGP	AQ	31329	28-02-2023 16:27:00	VCB STUCKUP IN OFF POSITION	KUR
CR	NGP	AQ	31117	03-03-2023 14:00:00	TR BG 2 ISO & BUR 3 ISO	BSL
CR	NGP	AQ	37444	07-03-2023 16:19:00	F0110P1 MPO SS02+SS03 ISO	KGP
CR	NGP	AQ	30703	10-03-2023 15:07:00	BG 2 ISO, LC 1 VPH IGBT VCE SAT	LJN
CR	NGP	AQ	37157	11-03-2023 16:00:00	TM 5 ISO	BB

Showing 1 to 5 of 28 entries

Loco Forecast(On-Time)

- User shall view the details of Locos which are on time shows in both graphical form and tabular form



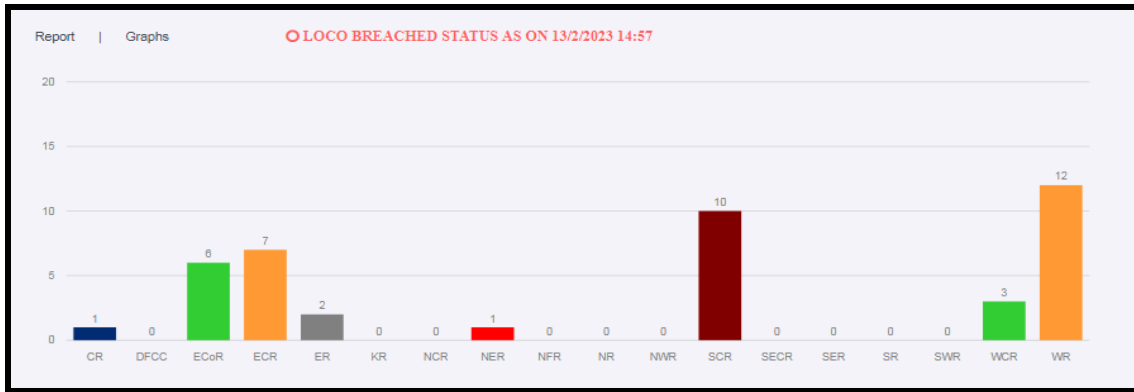
Report | Graphs ○ LOCO FORECAST STATUS TILL (14/3/2023 06:00).

Show 50 entries Search:

Zone Code	Division Code	Shed Name	Loco Number	Base Shed	Loco Inward For	Arrival Time	Arrival Remarks	Arrival Type
CR	NGP	AQ	30709	AQ	IOH	28-02-2023 02:00:00	FOR IOH	Working
CR	NGP	AQ	31100	AQ	IC	06-03-2023 12:30:00	U/C	Working
CR	NGP	AQ	31314	AQ	UnSch	09-03-2023 21:15:00	CAB 2 DEACTIVATED	Working
CR	NGP	AQ	41289	AQ	IA	10-03-2023 10:45:00	FOR IA MU WITH 41288	Working
CR	NGP	AQ	41288	AQ	IA	10-03-2023 10:45:00	FOR IA MU WITH 41289	Working
CR	NGP	AQ	33668	AQ	IB	09-03-2023 00:05:00	FOR IB	Working

Loco Forecast (Breached)

- User shall view the details of breach locos in graphical form and tabular form



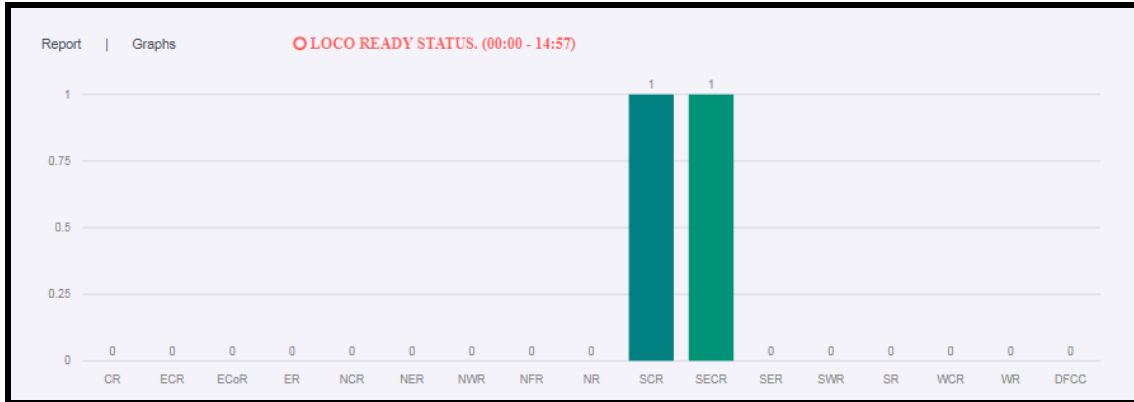
Report | Graphs ○ LOCO BREACHED STATUS AS ON 13/2/2023 14:57

Copy CSV Excel Print Show 5 entries Search:

Zone	Div	Shed	Schedule	Loco No.	Inward DateTime	Outward DateTime	TurnAround Time
CR	BB	KYN	IA	21873	15-02-2023 04:15:00	09-03-2023 12:02:00	536
CR	NGP	AQ	IB	37028	18-02-2023 23:20:00	09-03-2023 13:55:00	446
CR	BB	KYN	IB	30235	21-02-2023 03:45:00	11-03-2023 11:07:00	440
CR	BB	KYN	IA	27408	23-02-2023 07:55:00	11-03-2023 11:02:00	388
CR	NGP	AQ	IA	30489	14-02-2023 09:05:00	28-02-2023 23:10:00	350

Showing 1 to 5 of 1,022 entries

Ready Locos



- User shall view the details of locos which are ready in graphical form and tabular form.

Report | Graphs **LOCO READY STATUS. (00:00 - 14:57)**

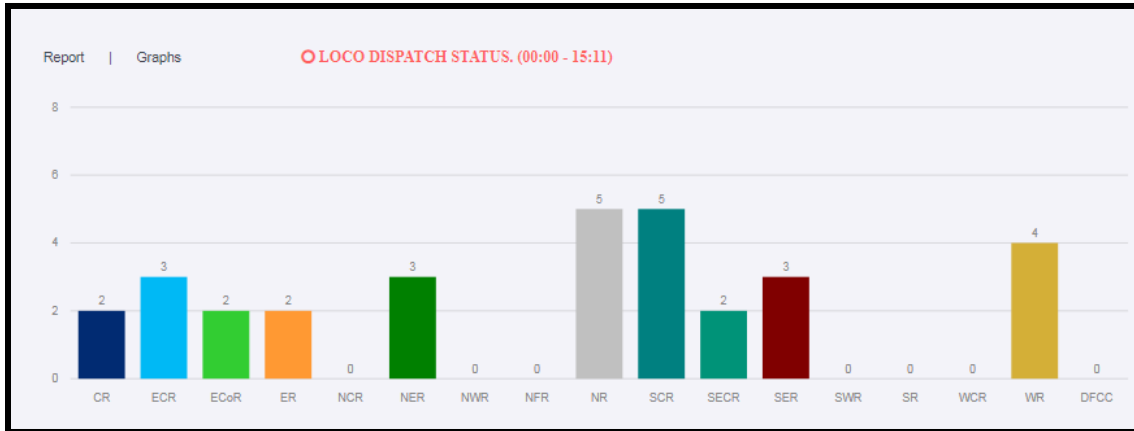
Copy CSV Excel Print

Zone Code	Shed Code	Loco Number	Base Shed	Arrival Time	Inward For	Arrival Remarks	Expected Ready Time	Ready Time
SCR	BZA	23979	BZA	06-03-2023 16:45:00	IC	N	09-03-2023 15:00:00	13-03-2023 03:30:00
SECR	BIA	31304	BIA	20-02-2023 09:00:00	UnSch	WHEN A-9 INITIAL POSITION IT SAME AS EMERGENCY	01-01-1900 00:00:00	13-03-2023 13:15:00

Showing 1 to 2 of 2 entries

Previous 1 Next

Dispatch Locos



- This screen shows the count of locos which are dispatched in graphical form and tabular form

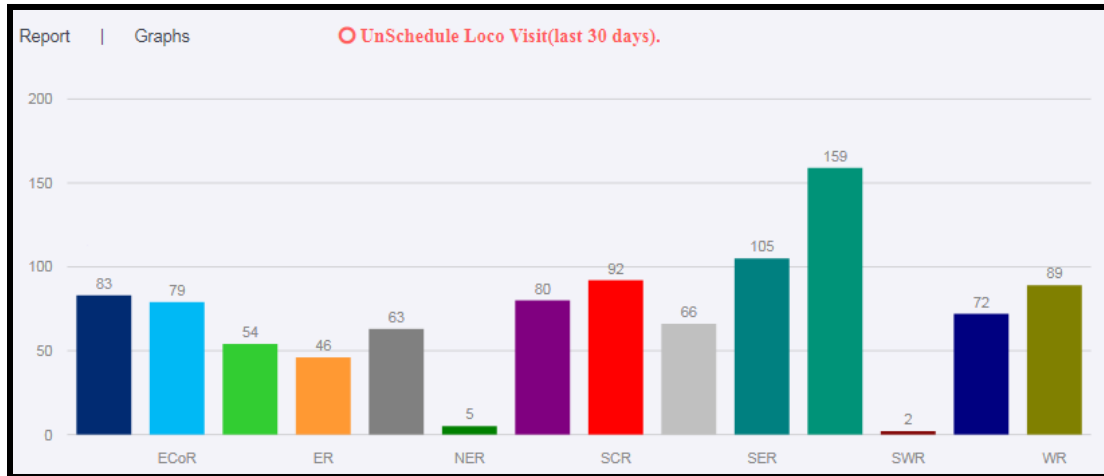
Report | Graphs ○ LOCO DISPATCH STATUS. (00:00 - 15:11)

Show 5 ▼ entries

Zone	Div	Shed	Loco No	Sch. Due	Planned On	Days	Last Sch Visit	RTIS Location
CR	NGP	AQ	27123	POH	26/12/2022	77	IA-07/01/23	--
CR	NGP	AQ	27204	POH	22/01/2023	50	IB-02/01/23	--
CR	BB	KYN	27264	POH	06/02/2023	35	TOH-03/03/23	--
CR	NGP	AQ	30302	TOH	07/02/2023	34	IB-09/11/22	ETSB
CR	NGP	AQ	31084	IOH	04/02/2023	37	IA-27/01/23	BPUN

Showing 1 to 5 of 165 entries

Un-Schedule Loco Visit



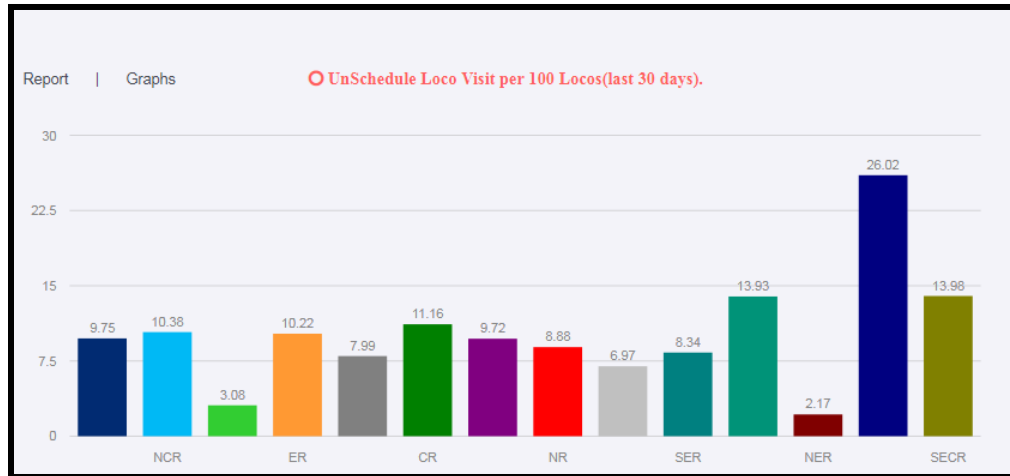
- User can view the count of Un schedule locos visits of last 30 days in graphical form and tabular form

Report | Graphs ○ UnSchedule Loco Visit(last 30 days).

Copy CSV Excel Print Show 5 ▼ entries Search:

Zone	Div	Loco No.	Base Shed	Maint Place	Inward Date Time	Outward Date Time	Maint.Time
CR	BB	21942	KYN	KYN	22/02/2023 22:30	25/02/2023 15:17	65
CR	BB	21897	KYN	KYN	22/02/2023 22:30	25/02/2023 15:10	65
CR	BB	27213	KYN	KYN	22/02/2023 08:00	02/03/2023 16:00	200
CR	BB	21900	KYN	KYN	23/02/2023 07:55	02/03/2023 16:21	177
CR	BB	30281	KYN	KYN	26/02/2023 15:15	02/03/2023 10:00	91

Un-Schedule Loco Visit (Per 100)



- User can view the count of Un schedule locos visits per 100 locos in last 30 days in graphical form and tabular form

Report | Graphs ○ UnSchedule Loco Visit per 100 Locos(last 30 days).


Copy CSV Excel Print Show 5 entries Search:


Zone	Div	Loco No.	Base Shed	Maint Place	Inward Date Time	Outward Date Time	Maint.Time
CR	BB	21942	KYN	KYN	22/02/2023 22:30	25/02/2023 15:17	65
CR	BB	21897	KYN	KYN	22/02/2023 22:30	25/02/2023 15:10	65
CR	BB	27213	KYN	KYN	22/02/2023 08:00	02/03/2023 16:00	200
CR	BB	21900	KYN	KYN	23/02/2023 07:55	02/03/2023 16:21	177
CR	BB	30281	KYN	KYN	26/02/2023 15:15	02/03/2023 10:00	91


Showing 1 to 5 of 995 entries


KPI –Key Performance Indicator (ON/OFF)

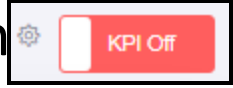
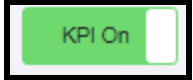
OVERDUES LOCO	
MAJOR	MINOR
<u>165</u>	<u>1106</u>

 KPI OFF

 **KPI Configuration Console**

Major Sch OverDue: **30** Days


Minor Sch OverDue: **10** Days


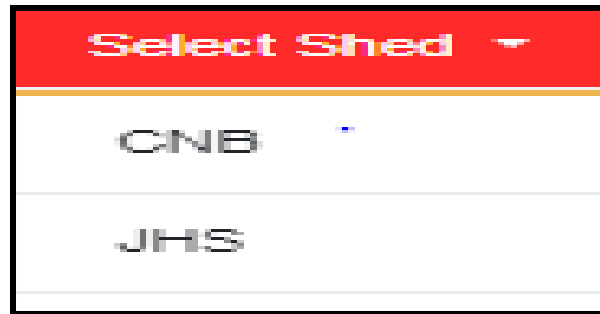
- KPI –On/Off condition 
- KPI OFF condition (no change in the values) 
- KPI ON condition (One can increase or decrease the values) of Minor and major overdue locos.
- KPI setting is used to configure the major and minor overdue days and changes can be modified .
- Configure the over due days.
- The total count of major and minor overdue will change.

Shed Location (ON/OFF)

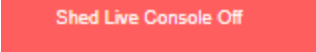



- Shed Location On/off Shed Location On
- When location is ON it will display division names of current zone and number of ELS(count) of other zones.
- When shed Location is Off mode location status disabled

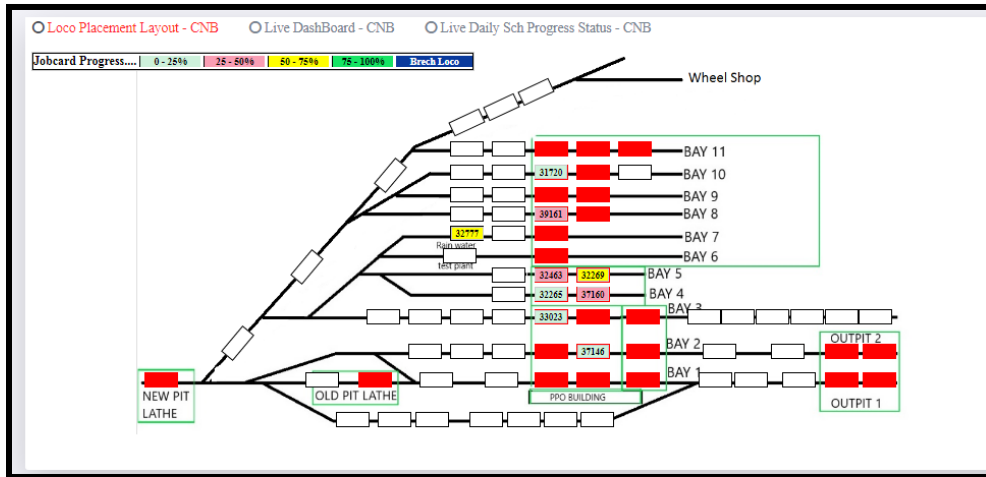
Shed Live Console (ON/OFF)



A screenshot of a web interface showing a dropdown menu titled "Select Shed". The menu is open, displaying two options: "CNB" and "JHS". The "CNB" option is currently selected, indicated by a blue checkmark to its right. The dropdown menu has a red header bar with the text "Select Shed" and a white background for the options.

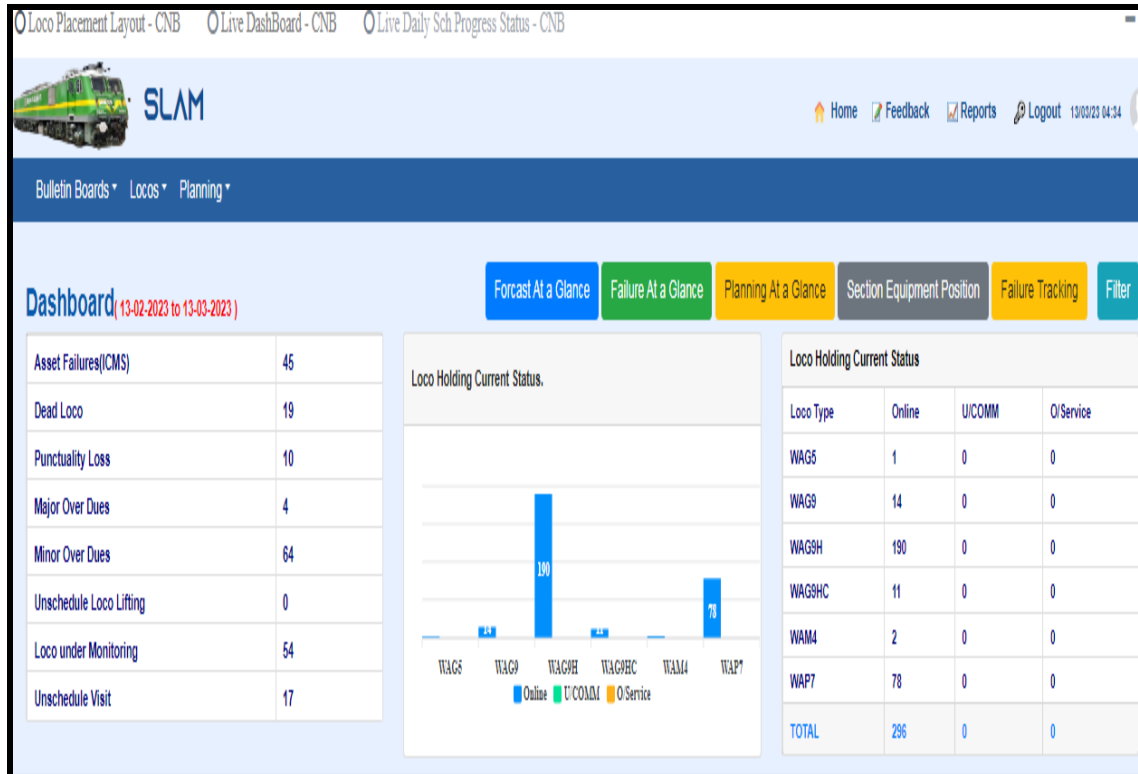
- Shed Live Console OFF no status to display 
- Shed Live Console ON 
- Select the Division from drop down
- After selecting Division it Shows three modules such as Loco Placement Layout, Live Dashboard ELS, Live Daily Schedule Progress Status-ELS

Shed Live Console (Loco Placement Layout)



- The Locos placed in a bay can be viewed here to check the bay positions of locos of that particular ELS location

Shed Live Console (Live Dashboard)



- User views the present Status of the locos in this Dashboard

Shed Live Console (Live Daily Schedule Progress)

Daily Schedules Progress - Dashboard

Loco in Shed: 10

Loco (10) Schedule	Inward On	BA	E1	E2	ESPL	ESALX	EXTM	E4	E5	E6	ETRR	ETSP	G1	M1	M2	M3	MSRR	MSR	M6	PPD	RDM	Tech Computer	TS	PPD Remarks	Ready (0)	Traffic Spare (0)	Under Inspection (0)	R/R	
32777	B/TOH 25/02/2023	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	FOR TOH				
31720	B/TOH 27/02/2023	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	LOCO TAKEN				
39161	B/TOH 02/03/2023	1053	1053	1053	1053	1053	1053	1053	1053	1053	1053	1053	1053	1053	1053	1053	1053	1053	1053	1053	1053	1053	1053	1053	FOR TOH				
37511	B/UnSch 11/03/2023	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	R/R				

SLAM Version - 4.0

©2021 Centre for Railway Information Systems. All Rights Reserved.

CRIS

View Loco History

Location: ---All--- Loco: 24008 Description: From: To: 26/10/2022 Purpose: Go

Loco	Activity Date	Purpose	Description	DL Completed	Location
24008	23/07/2022 17:00	IC	M-1: IC SCH DONE M-5: IC II SCH. COMPLETED TR-2: Ic schedule done M-1: IC SCH DONE M-5: IC II SCH. COMPLETED TR-2: Ic schedule done	28/07/2022 00:05	ELS/JHS
		PPD	Arrived - IC sch		
		PPD	Dispatched - fit for goods service. Mu with 24042		
24008	04/07/2022 00:10	UUO	Failed Sec: Occurrence: Loco no 24008 derailed. Wkg Cab 2 side one bogie derailed during shunting. Initial Action Taken:	--	ELS/JHS

Showing 20 Records Out of 56

Location Update - Minor Schedule Over Due Locos

Note: Due will be calculated based on the Current Date

Showing 84 Records Out of 84

S.No	Loco	Next Schedule	Due On	Planned On	Days Due	Last Visit	Last Sch Visit	RTS Last Location
1	20515	IC	07/10/2020	07/10/2020	887	UnSch-28/12/22	IC-09/09/21	--/--/--
2	32245	IB	26/01/2021	26/01/2021	776	UnSch-18/08/21	IT-12/12/20	ASAF /SC/SC
3	32334	IA	20/03/2022	20/03/2022	358	--	--	--/--/--
4	33459	IB	19/01/2023	19/01/2023	53	UnSch-17/12/22	IA-22/10/22	--/--/--
5	32446	IB	04/02/2023	04/02/2023	37	UnSch-16/01/23	IA-06/11/22	AMT /DLJ/IR
6	33232	IC	06/02/2023	06/02/2023	35	IB-08/11/22	IB-08/11/22	--/--/--
7	33486	IC	06/02/2023	06/02/2023	35	IB-09/11/22	IB-09/11/22	--/--/--

Location Update - Major Schedule Over Due Locos

Showing 4 Records Out of 4

S.No	Loco	Next Schedule	Due On	Planned On	Days Due	Last Visit	Last Sch Visit	RTS Last Location
1	37096	IOH	26/01/2023	26/01/2023	46	K-20/01/23	TOH-07/11/20	MTC /DLJ/IR
2	32092	IOH	27/01/2023	27/01/2023	45	IB-07/03/23	TOH-12/02/20	HBCC /DOU/EC
3	32093	IOH	03/03/2023	03/03/2023	10	IB-05/02/23	TOH-18/03/20	MAU /BSS/INE
4	32465	TOH	14/03/2023	14/03/2023	-1	IB-14/12/22	TOH-28/05/22	SKTN /DHN/EC

- Daily schedule Progress -The Loco Schedule Status and job card status is shown in "Daily Schedule Progress" Dashboard with corresponding colors
- Green indicates completed, Yellow indicates in progress, Pink indicates waiting for acknowledgement
- Loco History - In this page, Loco History details like Loco Number, Inward Date, Purpose of Visit, Description and Completed Date etc., are displayed
- Schedule overdue locos- This page shows Minor & Major Schedule Over Due Locos information

Thank You