

यांत्रिक MECHANICAL



MADURAI Division

मदुरै मंडल

MADURAI DIVISION

Depot wise – Coach Holding

DEPOT	Bare Holding		
	AC	NAC	TOTAL
MDU-ICF	12	243	255
MDU-LHB	92	106	198
TEN-ICF	0	118	118
TEN LHB	65	79	144
RMM- ICF	29	113	142
RMM LHB	22	18	40
TN LHB	40	44	84
Total ICF	41	474	515
Total LHB	219	247	466
Total	260	721	981
Vande Bharat	DTC	TC	MC
	2	2	4
Grand Total	989		

COACHING MAINTENANCE

Type of Maintenance	Depot	Number of Trains	Number of Coaches
Primary	MDU	12 Trains (27 Rakes)	453
	TEN	10 Trains (18 Rakes)	270
	RMM	04 Trains (09 Rakes)	183
	TN	01 Train (04 Rakes)	84
Secondary	MDU	--	--
	TEN	02 Trains (03 Rakes)	66
	RMM	02 Trains (02 Rakes)	40
	TN	01 Train (01 Rakes)	21
PFTR	MDU	12 Trains	195
	TEN	13 Trains	164
	RMM	11 Trains	203
	TN	04 Trains	51
	DG	03 Trains	36
	KKDI	04 Trains	44
	SCT	12 Trains	109
	TCN	07 Trains	96
	PUU	02 Trains	30
	BDNK	02 Trains	19

MADURAI DIVISION

MECHANICAL ORGANISATION

Category	Sanction	Actual	Vacancy
Supervisor	76	57	19
C & W Staff	722	662	60
Ministerial staff including Drawing staff	52	49	3
Total	850	768	82



MDU DEPOT



MADURAI

1. Coach Holding

DEPOT	Bare Holding		
	AC	NAC	TOTAL
MDU - ICF	12	243	255
MDU - LHB	92	106	198
Total	104	349	453

2. Important Activities

- Coach Holding – 453 (255 ICF coaches & 198 LHB coaches)
- Coach maintenance- 110 coaches per day
- Intermediate Overhaul of Coaches @ 28 coaches per month
- SSI attention of LHB coaches @ 11 coaches per month
- Sick Rolling Stock Attention.
- A Class ART with 140 T Dsl. Crane, Hydraulic Re-railing Equipment and SPART.
- PFTR attention. - 111 coaches per day

3. Coaching Maintenance

Primary	12 Trains	27 Rakes	453 Coaches
Secondary	--		--
PFTR	12 trains		195 Coaches
Pass Through	43 Trains (Avg.)		
Daily Average coach maintenance (PM)	110 coaches per day		

4. Disaster management system :

“A” class ART at MDU & SPART at MDU

5. Rake Maintenance

Primary Maintenance							
SF / Express Trains							
Train No	Train Name.	No of coaches per rake	No. of Rakes	Frequency of slot	Maintenance slot	KM's Earned	OEA/ SM
12638/22675/ 12654/ 12653/ 22676/12637 (LHB)	Pandiyan/ Cholan/ Rock fort Exp	22	4	Daily	09.00-17.00 Hrs	2465	MS & TPJ
12636/12605/ 12606/12635 (LHB)	Vaigai/ Pallavan Exp.	22	2	Mon, Tue, Thur & Fri	22.00-06.00 Hrs	3688 (2 trips)	MS & KKDI
22631/22632 (LHB)	MDU – BKN AC Exp	22	1	Wed	09.00-17.00 Hrs	5117	SM @ BKN
16729/16730	MDU – PUU Exp	18	2	Mon, Tue, Thur & Fri	06.00-14.00 Hrs	1729 (2 trips)	PUU
22623/22624 (LHB)	Chennai Bi weekly Exp.	15	2	Thurs	09.00 – 17.00 Hrs	2240	MS
12651/12652 (LHB)	Nizamuddin Exp.	22		Sat & Mon	09.00 – 17.00 Hrs & 14.00 – 22.00 hrs	5338	SM @ NZM
12687/12688	MDU-CDG Exp	21	2	Wed & Sun	14.00 – 22.00 hrs	6174	SM @ CDG
16327/16328	MDU-GUV Exp	14	2	Tue, Wed, Fri & Sat	22.00- 06.00 hrs	3241 (2 trips)	GUV
Passenger Trains							
06701/06702/06651/ 06654/ 06655/ 06652/ 06610/06609/ 06653/ 06656	MDU-BDNK- MDU- RMM- MDU-DG-MDU -RMM - MDU	11	4	Daily	22.00-06.00 hrs	1277	BDNK, DG, RMM
06504/ 06658/ 06657/ 16848/ 06873/06729/ 06646/ 16847/ 06682/ 06681/ 06664	MDU-SCT- TEN – SCT – MV- TJ- TPJ- MV- SCT- TEN-SCT-MDU	12	4	Daily	22.00-06.00Hrs	1814	SCT, TEN, MV, TJ, TPJ
16722/16608/ 06477/ 06478/ 16607/16721	MDU-CBE- CAN-MAQ- CAN-CBE- MDU	14	3	Daily	22.00-06.00 hrs	1277	CBE, CAN, MAQ
Special Train							
IRCTC Spl On Demand	On Demand	15	1	--	--	--	--

6. Platform Turn Round : (Daily Average PFTR - 111 Coaches per day)

No of Trains – 12 Pairs of Trains

Sl. No.	Train No.	From	To	Arrival	Departure	PFTR on Days	No of Coaches
1.	12636/12605/ 12606/12635 (LHB)	MDU	MS	21.15	07.10	Sun, Wed, Sat	22
2.	22671/22672 (LHB) TEJAS Exp	MDU	MS	12.15	15.00	Daily (Except THU)	15
3.	16343/16344	MDU	TVC	10.10	16.05	Daily	22
4.	16729/16730	MDU	PUU	06.15	23.30	Sun, Wed, Sat	18
5.	12652/22624	MDU	MS	08.10	21.50	Saturday	15
6.	06702/06651	TENI/ MDU	RMM	19.50	06.50	Daily	11
7.	06654/06655	RMM/ MDU	RMM	14.40	18.10	Daily	11
8.	06652/06610	RMM/ MDU	DG	09.30	18.10	Daily	11
9.	06609/06653	DG/ MDU	RMM	09.20	12.30	Daily	11
10.	22101/22102 (LHB)	MDU	LTT	18.10	15.50	Fri	22
11.	22716/22715 (LHB)	MDU	KCG	05.15	13.10	Sunday	22
12.	16328/16327	GUV/ MDU	GUV	19.15	11.20	Mon, Thu & Sun	14

7. Break Down Special:

B.G BD spl	140 T – DSL crane (COWANS SHELDON MAKE) UK
Crane Name	IR 141004
YEAR BUILT	1999, Commissioned on : 2002
COST	13.47 crore
CODAL LIFE	25 Years
POH DATE	GKPW 22.12.2023, R/D : 07/2025

8. Infra Structure Facilities

IOH Facilities

Name of IOH Depot	No. of IOH lines	Capacity (in No. of coach) covered area	Capacity (in no. of coach) Uncovered area	Total capacity in no. of coach (Length of sick line – covered & uncovered area)
MDU	3	3 x 1 = 3	15	3 x 6 = 18 (140m each)

MDU IOH	No of line	Capacity (in No. of coach) covered area	Total capacity in no. of coach (Length of sick line – covered)
Examination Pit	2	2 x 1=2	2

Pit line facilities

Pit Line Nos.	Holding Capacity	High pressure jet cleaning plants
I	26	Available.
II	26	
III	26	
IV	24	

Plat form facilities

Plat form No	Holding capacity	Provision of water hydrants	Provision of washing apron	Availability of drainage facility	High pressure jet cleaning plant
PF 1	26	Available	Available	Available	Not Available
PF 2	26	Available	Available	Available	Not Available
PF 3	26	Available	Available	Available	Available
PF 4	24	Available	Available	Available	Available
PF 5	24	Available	Not Available	Available	Available
PF 6	18	Not Available	Not Available	Not Available	Not Available
PF 7	13	Available	Not Available	Not Available	Not Available

9. C&W Staff Position

Category	Sanction	Actual	Vacancy
Supervisor	27	21	6
Group 'C'	203	198	5
Group 'D'	88	73	15
Total	318	292	26



TEN DEPOT



TIRUNELVELI

1. Coach Holding:-

DEPOT	Bare Holding		
	AC	NAC	TOTAL
TEN-ICF	0	118	118
TEN-LHB	65	79	144
Total	65	197	262
Vande Bharat	DTC	TC	MC
	2	2	4

2. Important Activities:-

- Coach Holding – 270 (118 ICF coaches + 144 LHB coaches + VB 8 Coaches)
- Coach Maintenance- 64 coaches per day
- Intermediate Overhaul of Coaches @ 13 coaches per month
- SSI attention of LHB coaches @ 8 coaches per month
- Sick Rolling Stock Attention
- B Class ART with Hydraulic Re-railing Equipment
- PFTR attention- 134 coaches per day

3. Coaching Maintenance:-

Primary	10 Trains	18 Rakes	270 Coaches
Secondary	2 Trains	3 Rakes	66 Coaches
PFTR	13 Trains		164 Coaches
Pass Through	30 Trains (avg.)		
Daily average maintenance (PM+ SM)	72.5 coaches per day		
Vande Bharat Trip Schedule coaches per day	6 coaches		

4. Disaster management system :

'B' Class ART at TEN

5. Rake Maintenance

Primary Maintenance							
SF / Express Trains							
Train No	Train Name.	No. of coach es per rake	No. of Rakes	Frequency slot	Maintenance slot	KM's Earned	OEA/ SM
12632/12661/12662/ 12631 (LHB)	Nellai/ Pothigai Exp	22	4	Daily	09.00 to 17.00 Hrs	2642	MS, SCT
22619/22620 (LHB)	TEN-BSP Exp.	22	1	Sat	09.00 to 17.00 Hrs	4577	SM @ BSP
22629/22630 (LHB)	TEN-DR	15	1	Tue	09.00 to 17.00 Hrs	3850	SM @ DA
16791/16792	TEN – PGT	14	2	Sun, Mon Thu & Fri	09.00 to 17.00 Hrs	3084 (2 trips)	PGT, TEN
16787/16788 Weekly Exp (LHB)	TEN-SVDK	19	1	Mon	06.00 to 14.00 Hrs	7255	SM @ SVDK
20665/ 20666 Vande Bharat	TEN-MS	8	1	Tue	09.00 – 17.00 Hrs	7833 (6 trips)	MS, TEN
Passenger Trains							
06668/06667	TEN – TN Unreserved Exp	07	1	Mon & Thu	22.00 to 06.00 Hrs	480 (4 trips)	TN, TEN
06642/ 06643/ 06640/ 06639/ 06641	TEN -NCJ - CAPE -PUU - NCJ -TEN. Pass link	12	2	Tue, Wed, Fri & Sat	22.00 to 06.00 Hrs	2096 (2 trips)	NCJ, CAPE PUU, TEN
06673/16732/16731/ 06676/ 06677/ 06405/ 06675/ 06680/ 06672/ 06847/ 06848/ 06671/ 06679/ 06678	TEN -TCN -PGT - TCN -TEN -TCN – TEN – TCN – MEJ – TN – MEJ – TN – MEJ – TCN - TEN Unreserved Exp	12	4	Daily	22.00 to 06.00 Hrs	1598	TCN, PGT, TN, TEN
06685/06684/06687/0 6686	TEN-SCT	12	1	Thur & Sun	22.00 to 06.00 Hrs	320 (4trips)	SCT

Secondary Maintenance					
Train No	Train Name.	No. of coaches per rake	No. of Rakes	Frequency slot	Maintenance slot
19577/ 19578 Bi-(LHB) weekly Exp	TEN – JAM	22	2	Sun/Mon & Mon/Tue	22.00 to 06.00 Hrs
20924/20923 (LHB) weekly Exp	TEN-GIMB	22	1	Wed	14.00 to 22.00 Hrs

6. Platform Turn Round: Daily Average PFTR – 134 coaches per day,
No of Trains – 13 Pairs of Trains

SL No	Train No	From	To	Arrival	Departure	PFTR on Days	No of Coaches
1.	16791/16792	TEN-PGT	PGT	04.55	23.15	Tue, Wed, Sat	14
2.	06658/06657	SCT-TEN	SCT	17.00	18.15	Daily	12
3.	06682/06681	SCT-TEN	SCT	08.50	09.45	Daily	12
4.	11021/11022	DR-TEN	DR	11.50	15.15	Mon, Thu & Fri	17
5.	06676/06677	TCN-TEN	TCN	18.00	18.45	Daily	12
6.	06405/06675	TCN-TEN	TCN	08.50	10.00	Daily	12
7.	06668/06667	TN-TEN	TN	20.15	07.35	Sun, Tue, Wed, Fri & Sat	7
8.	06641/ 06642	NCJ-TEN	NCJ	20.45	06.35	Sun, Mon & Thu	12
9.	06674/06409	TCN-TEN	TCN	10.00	16.15	Daily	18
10.	06684/06687	SCT-TEN	SCT	12.25	13.50	Daily	12
11.	06686/16846	SCT-TEN	ED	18.00	20.10	Daily	12
12.	06674/06409	TCN-TEN	TCN	08.15	10.01	Daily	18
13.	06684/06687	SCT-TEN	SCT	10.00	12.15	Mon,Tue,Wed, Fri,Sat	12

7. Infrastructure Facilities

IOH Facilities:-

Name of IOH Depot	No. of IOH lines	Capacity (in No. of coach) covered area	Capacity (in no. of coach) Uncovered area	Total capacity in no. of coach (Length of sick line – covered & uncovered area)
TEN	2	2 x 3 = 6 coaches	10 Coaches	2 x 8 = 16 (210m each)

TEN IOH	No of line	Capacity (in No. of coach) covered area	Total capacity in no. of coach (Length of sick line – covered)
Examination Pit	2	2 x 1=2	2

Pit line Facilities:-

Pit Line Nos	Holding Capacity	High pressure jet cleaning pit line
I	26	Available for both sides.
II	26	
III	26	Available at one side (East side only).

Platform Facilities:-

Plat form No	Holding capacity	Provision of water hydrants	Provision of washing apron	Availability of drainage facility	High pressure jet cleaning plant
PF 1	26	Available	Available	Available	Not Available
PF 2	26	Available	Available	Available	Not Available
PF 3	26	Available only 23 Coach length	Not Available	Available	Available
PF 4	26	Available only 23 Coach length	Not Available	Available	Available
PF 5	26	Damaged and not working.	Not Available	Open drain Available	Available

8. C&W Staff Position

Category	Sanction	Actual	Vacancy
Supervisor	17	12	5
Group 'C'	110	96	14
Group 'D'	68	61	7
Total	195	169	26



RMM DEPOT



RAMESWARAM

1. Depot wise – Coach Holding

DEPOT	Bare Holding		
	AC	NAC	TOTAL
RMM- ICF	29	113	142
RMM – LHB	22	18	40
Total	51	131	182

2. Important Depots and Activities

- Coach Holding – 182 coaches (142 ICF coaches + 40 LHB coaches)
- Coach maintenance- 42 coaches per day
- Intermediate Overhaul of Coaches @ 15.7 coaches per month
- SSI attention of LHB coaches @ 2 coaches per month
- Sick Rolling Stock Attention
- PFTR attention 104 coaches per day

3. Coaching Maintenance

Primary	4 Trains	9 Rakes	183 Coaches
Secondary	2 Train	2 Rakes	40 Coaches
PFTR	11 Trains		203 Coaches
Daily average maintenance (PM+SM)		42 coaches per day	

4. Rake Maintenance

Primary Maintenance							
SF /Express Trains							
Train No	Train Name.	No of coaches per rake	No of Rakes	Frequency	Maintenance slot	KM's Earned	OEA/ SM
22661/22662/ 16751/16752	Sethu/ Port mail Exp.	22	4	Daily	09.00-17.00 Hrs	2400	MS, RMM
16733/16734(LHB)	RMM- OKHA	21	1	Friday	09.00-17.00 Hrs	6306	SM @ OKHA
16780/16779/ 22621/22622	RMM- TPTY- RMM-CAPE	18	1	Wed/Thu	22.00-06.00 Hrs	2416	TPTY, CAPE

16780/16779	RMM-TPTY	18	1	Thu/Fri	22.00-06.00 Hrs	3206	TPTY
22621/22622	RMM-CAPE	18	1	Sun/Mon	22.00-06.00 Hrs	1625	CAPE
22613/22614 (LHB)	RMM-AYC	19	1	Sun	06.00 to 14.00 Hrs	5842	SM @ AYC

Secondary Maintenance					
Train No	Train Name.	No of coaches per rake	No of Rakes	Frequency	Maintenance slot
22536/22535	RMM-BSBS (LHB)	20	1	WED	09.00 to 17.00 Hrs
20973/20974	RMM – All (LHB)	20	1	TUE	09.00 to 17.00 Hrs
Due to Pamban Bridge under construction, 4 PM rakes at TBM depot are maintained, the remaining 5 PM rakes and 2 SM rakes at MDU depot are maintained.					

5. Platform Turn Round Trains: (Daily Average PFTR – 104 coaches per day)

No of Trains – 12 Pairs of trains

SL No.	Train No	From	To	Arrival	Departure	PFTR on Days	No of coaches
1.	20896/20895 (LHB)	RMM	BBS	22.40	08.40	SUN	19
2.	16849/16850	RMM	TPJ	12.25	14.35	Daily	10
3.	16751/16752	MS/RMM	RMM	08.20	17.20	Daily	22
4.	22661/22662	MS/RMM	MS	04.10	20.20	Daily	22
5.	06651/06654	MDU/RMM	MDU	10.35	11.00	Daily	11
6.	06653/06656	MDU/RMM	MDU	16.10	18.00	Daily	11
7.	06655/06652	MDU/RMM	MDU	22.25	05.40	Daily	11
8.	16618/16617	RMM	CBE	06.15	19.10	Wed	22
9.	16779/16780	TPTY/RMM	TPTY	04.55	16.20	Sun	18
10.	22622/22621	CAPE/RMM	CAPE	05.35	21.00	Wed	18
11.	16779/22621	TPTY/RMM	CAPE	04.55	21.00	Sat	18
12.	07685/07686	RMM	SC	03.10	23.55	Thu	21

6. Infra Structure Facilities

IOH Facilities:-

Name of IOH Depot	No. of IOH lines	Capacity (in No. of coach) covered area	Capacity (in no. of coach) Uncovered area	Total capacity in no. of coach (Length of sick line – covered & uncovered area)
RMM	3	3 x 1 = 3	21	3 x 8 =24 (200m each)

RMM IOH	No of line	Capacity (in No. of coach) covered area	Total capacity in no. of coach (Length of sick line – covered)
Examination Pit	2	2 x 1=2	2

Pit line facilities:-

Pit Line Nos	Holding Capacity	Remarks
I	26	Catwalks under reconstruction.
II	26	

Plat form facilities

Plat form No	Holding capacity	Provision of water hydrants	Provision of washing apron	Availability of drainage facility	High pressure jet cleaning plant
PF 1	17	Available	Available	Available	Available
PF 2	21	Available	Available	Available	Available
PF 3	26	Available	Available	Available	Available
PF 4	26	Available	Available	Available	Available

7. C&W Staff Position

Category	C&W Staff Position		
	Sanction	Actual	Vacancy
Supervisor	10	9	1
Group 'C'	61	65	+4
Group 'D'	44	41	3
Total	115	115	0



TN DEPOT



TUTICORIN

1. Depot wise – Coach Holding

DEPOT	AC	NAC	TOTAL
TN (LHB)	40	44	84

2. Important Depots and Activities

- Coach Holding – 84 LHB coaches
- Coach maintenance – 24 coaches per day
- SSI attention of LHB coaches @ 4.6 coaches per month
- Sick Rolling stock attention.
- PFTR Attention – 51 coaches per day.

3. Coaching Maintenance

Primary	1 Train	4 Rakes	84 Coaches
Secondary	1 Train	1 Rake	21 Coaches
PFTR	4 Train		51 Coaches
Daily average maintenance (PM & SM)		24 coaches per day	

4. Rake Maintenance

Primary Maintenance							
Train No	Train Name.	No of coaches per rake	No of Rakes	Frequency	Maintenance slot	KM's Earned	OEA
12694/ 12633/ 12634/ 12693	Pearl City Exp/ MS-CAPE Exp (LHB)	21	4	Daily	09.00 to 17.00 Hrs (Except Sun 06.00 to 14.00 Hrs)	2824	MS, CAPE

Secondary Maintenance					
Train No	Train Name.	No of coaches per rake	No of Rakes	Frequency	Maintenance slot
19568/67 (LHB)	OKHA – TN Exp	19	1	SUN	14.00 to 22.00 Hrs (Sun)

5. Platform Turn Round: (Daily Average PFTR - 51 coaches per day)

No of Trains – 4 pairs of Trains.

SL No	Train No	From	To	Arrival	Dep.	PFTR on Days	No of coaches
1.	16235/36 (LHB)	MYS/TN	MYS	11.00	17.15	Daily	21
2.	06672/06847	MEJ/TN	MEJ	20.10	22.10	Daily	12
3.	06848/06671	MEJ/TN	MEJ	04.00	08.25	Daily	12
4.	06668/06667	TEN/TN	TEN	09.25	18.00	Daily	7

6. Infrastructure Facilities

IOH Facilities

Name of IOH Depot	No. of IOH lines	Capacity (in No. of coach) covered area	Capacity (in no. of coach) Uncovered area	Total capacity in no. of coach (Length of sick line – covered & uncovered area)
TN	2	2x2=4	14	2X9=18 (240m each)

TN IOH	No of line	Capacity (in No. of coach) covered area	Total capacity in no. of coach (Length of sick line – covered)
Examination Pit	2	2 x 1=2	2

Pit line Facilities

Pit Line Nos.	Holding Capacity	High pressure jet cleaning plants
I	19 (LHB)	Available.

Platform Facilities

Plat form No	Holding capacity	Provision of water hydrants	Provision of washing apron	Availability of drainage facility	High pressure jet cleaning plant
PF 1	23	Available	Available	Available	Available
PF 2	24	Available	Available	Available	Available
PF 3	18	Not Available	Not Available	Available	Available

7. C&W Staff Position

Category	Sanction	Actual	Vacancy
Supervisor	3	3	0
Group 'C'	30	42	+12
Group 'D'	19	9	10
Total	52	54	+2



DG DEPOT



DINDIGUL

Rake Maintenance	Nil	
Platform Activities	Attention of pass through trains	Pass through attention of goods trains
Platform Turn Round	Daily Average Coaches	24 coaches per day
	No of Trains	2 Pairs of Trains

SL No	Train No	From	To	Arrival	Dep.	Frequency	No of coaches
1	06610/06498	MDU/ DG	TPJ	19.45	06.15	Daily	12
2	06499/06609	TPJ/ DG	MDU	20.45	08.00	Daily	12
3	16868/16867	VM/DG	VM	22.15	05.00	Daily	12

C&W Staff Position

Category	Sanction	Actual	Vacancy
Supervisor	2	1	1
Group 'C'	19	11	8
Group 'D'	2	4	+2
Total	23	16	7

Infrastructure Facilities

Platform Facilities

Platform No	Holding capacity	Provision of water hydrants	Provision of washing apron	Availability of drainage facility	High pressure jet cleaning plant
PF 1	26	Available	Available	Available (Open drainage)	Not Available
PF 2	26	Available	Available	Available	Not Available
PF 3	26	Available	Removed for speed enhancement	Available	Not Available
PF 4	26	Available	Removed for speed enhancement	Available	Not Available
PF 5	26	Available	Available	Available (Open drainage)	Not Available



KKDI DEPOT



KARAIKUDI

Rake Maintenance	Nil	
Platform Activities	Attention of pass through trains	Pass through attention of goods trains
Platform Turn Round	Daily Average Coaches	35 coaches per day
	No of Trains	4 Pairs of Trains

SL No	Train No	From	To	Arrival	Departure	No of coaches	Frequency
1.	12605/12606	MS/KKDI	MS	23.00	05.00	22	Daily
2.	06197/06198	TVR/KKDI	TVR	11.45	16.00	9	Daily (except Sun)
3.	06125/06126	TPJ/KKDI	TPJ	20.05	07.05	5	Daily
4.	06829/06830	TPJ/KKDI	TPJ	10.15	12.10	8	Daily

Infrastructure Facilities

Platform Facilities

Plat form No	Holding capacity	Provision of water hydrants	Provision of washing apron	Availability of drainage facility	High pressure jet cleaning plant
PF 1	24	Available	Not Available	Available	Not Available
PF 2	24	Not Available	Not Available	Available	Not Available
PF 3	24	Yet to be commissioned.	Not Available	Available	Not Available
PF 4	24	Not Available	Not Available	Available	Not Available
PF 5	24	Not Available	Not Available	Not Available	Not Available

C&W Staff Position

Category	Sanction	Actual	Vacancy
Supervisor	1	0	1
Group 'C'	5	4	1
Group 'D'	4	5	+1
Total	10	9	1



MNM DEPOT



MANAMADURAI

No C&W Activities only RCD fuelling Activities

Infrastructure Facilities

Platform Facilities

Plat form No	Holding capacity	Provision of water hydrants	Provision of washing apron	Availability of drainage facility	High pressure jet cleaning plant
PF 1	24	Available	Available	Available	Not Available
PF 2	24	Available	Available	Available	Not Available
PF 3	24	Not Available	Not Available	Not Available	Not Available
PF 4	24	Available	Not Available	Not Available	Not Available

C&W Staff Position

Category	Sanction	Actual	Vacancy
Supervisor	0	0	0
Group 'C'	6	5	1
Group 'D'	2	3	+ 1
Total	8	8	0



SCT DEPOT



SENGOTTAI

Rake Maintenance	Nil	
Platform Activities	Attention of pass through trains	
Platform Turn Round	Daily Average Coaches	109 coaches per day
	No of Trains	9 Pairs of Trains

SL No	Train No	From	To	Arrival	Departure	Frequency	No of coaches
1.	12661/62 (LHB)	MS/ SCT	MS	08.30	18.10	Daily	22
2.	20681/20682	MS/ SCT	MS	08.55	16.50	Tri Weekly (Thu, Sat & Sun)	17
3.	06504/06658	MDU/ SCT	TEN	10.35	14.55	Daily	12
4.	06657/16848	TEN/ SCT	MV	20.20	07.00	Daily	12
5.	06687/06686	TEN/ SCT	TEN	16.15	17.50	Daily	12
6.	06681/06664	TEN/ SCT	MDU	11.50	12.10	Daily	12
7.	16847/06682	MV/ SCT	TEN	21.30	06.40	Daily	12
8.	20683/20684 (LHB)	TBM/ SCT	TBM	10.50	16.15	Mon, Wed & Fri	17
10.	16845/16846	ED- SCT	ED	23.15	04.50	Daily	12
11.	06685/06684	TEN/ SCT	TEN	09.15	10.05	Daily	12
12.	06687/06686	TEN/ SCT	TEN	16.15	17.50	Daily	12

Infrastructure Facilities:

Platform Facilities

Plat form No	Holding capacity	Provision of water hydrants	Provision of washing apron	Availability of drainage facility	High pressure jet cleaning plant
PF 1	24	Available	Partially available for 18 coaches	Available	Available
PF 2	24	Available	Not Available	Available	Available
PF 3	24	Available	Not Available	Available	Available
PF 4	24	Available	Not Available	Available	Available

C&W Staff Position

Category	Sanction	Actual	Vacancy
Supervisor	2	1	1
Group 'C'	17	15	2
Group 'D'	3	1	2
Total	22	17	5



MVN DEPOT



MILAVITTAN

Goods Train Examination and BPC Issued	Air brake	45 trains (average per month)
Infra Structure Facilities	Examination lines	3 lines 700 mts length each
	Sick line	3 (1 of 12 wagons & 2 of 7 wagons each = 26 Vehicles)

C&W Staff Position

Category	Sanction	Actual	Vacancy
Supervisor	5	4	1
Group 'C'	35	23	12
Group 'D'	4	6	+2
Total	44	34	11



TCN DEPOT



THIRUCENDHUR

Rake Maintenance	Nil	
Platform Turn Round	Daily Average Coaches	96 coaches per day
	No of Trains	7 Pairs of Trains

Sl. No.	Train No	From	To	Arrival	Departure	Frequency	No of coaches
1.	20605/06674	MS-TCN	TEN	06.10	08.25	Daily	18
2.	06409/20606	TEN-TCN	MS	17.50	20.25	Daily	18
3.	06673/16732	TEN-TCN	PGT	09.00	12.20	Daily	12
4.	06677/06405	TEN-TCN	TEN	20.20	07.20	Daily	12
5.	06675/06680	TEN-TCN	TN	12.10	14.30	Daily	12
6.	16731/06676	PGT-TCN	TEN	15.15	16.35	Daily	12
7.	06679/06678	TN-TCN	TEN	13.35	18.15	Daily	12

Platform facilities:-

Plat form No	Holding capacity	Provision of water hydrants	Provision of washing apron	Availability of drainage facility	High pressure jet cleaning plant
PF 1	24	Available	Not available	Available	Available.
PF 2	16	Available	Not available	Available	Available.
PF 3	12	Not available	Not available	Not Available	Available.

PUNALUR

Rake Maintenance	Nil	
Platform Turn Round	Daily Average Coaches	45 coaches per day
	No of Trains	3 Pairs of Trains

Sl. No.	Train No	From	To	Arrival	Departure	Frequency	No of coaches
1.	16729/16730	MDU-PUU	MDU	10.10	17.15	Daily	18
2.	06640/06639	CAPE-PUU	NCJ	20.15	06.30	Daily	12

Platform facilities:-

Platform No	Holding capacity	Provision of water hydrants	Provision of washing apron	Availability of drainage facility	High pressure jet cleaning plant
PF 1	24	Completed	Not available	Available	Available.
PF 2	24	Completed	Not available	Available	Available.

BODINAYAKKANUR

Rake Maintenance	Nil	
Platform Turn Round	Daily Average Coaches	19 coaches per day
	No of Trains	2 Pairs of Trains

Sl. No.	Train No	From	To	Arrival	Departure	Frequency	No of coaches
1.	06701/06702	MDU-BDNK	MDU	10.30	17.50	Daily	11
2.	20601/20602 (LHB)	MGR-BDNK	MGR	09.35	20.30	Tue, Thu & Sat	18

Platform facilities:-

Plat form No	Holding capacity	Provision of water hydrants	Provision of washing apron	Availability of drainage facility	High pressure jet cleaning plant
PF 1	24	Available	Not available	Available	Not available
PF 2	24	Available	Not available	Available	Not available

INNOVATION:-

Nov – 2023

The Non-working of Pressurized Flushing System (PFS) in bio toilets is one of the maintenance challenge being faced by the coaching depots mainly due to worn out actuating piston assembly. On detailed examination, it is noticed that out of 2 actuating pistons in the pressuring cylinder, one on water end and other on pneumatic end. The water end are getting eroded on service due to salt deposits and abrasion due to minor floating particles in the water. The efforts made to replace the worn-out parts with OEMs did not yield results due to their poor response and instead of child parts, OEMs are interested to offer complete cylinder assembly, which costs around Rs.22000 per cylinder.

On this account, a significant number of cylinders in toilets running deficient and, in some case, it is forced to convert such in to other system including gravity flushing,

In this connection, the following technical team of MDU, took the initiative and came out with a cost-effective solution by designing a piston which can replace the defective ones and restore the system.

The team drafted its own design and developed 5 new pistons duly purchasing raw materials and machining in a CNC machining centre at a total cost of Rs.2100 per piston. One such piston was fitted in the PFS cylinder of Coach Number LWSCZ 216440 on 11.11.023 and so far it has been working satisfactorily. . This not only solves the problem of worn-out pistons but also potentially provides a more economical solution for maintaining the PFS.

Team Involved:

1. P. Sakthivel – SSE/C&W/MDU
2. S. Manikandan – SSE/C&W/MDU
3. M. Saga Devan – Tech. Gr-III/C&W/MDU
4. P. Ramachandran – Acct/C&W/MDU



Piston Disc (Air side) found good and intact



Piston Disc (Water side) found decayed



Final Product (After CNC lathe Work)

Dec- 2023

1. Name of Railway:- Southern Railway
2. Name of the Subject:- Blinking Rotary lamp signalling device for OHE Line status
3. Name of Good work:- Blinking Rotary lamp signalling device for OHE Line status
4. Summary and Detailed Description:-

Blinking Rotary Lamp Signaling Device for OHE Line Status Awareness

In accordance with Para No. 13 of the Inspection notes from the Additional Member (Mechanical Engineering), which stipulates that 'System of working under OHE should be reviewed critically for absolute safe conditions. Red/green indication related to OHE charged condition may be displayed in the working area to make staff aware about the condition of OHE,' a dedicated signaling system has been meticulously implemented at Pitline No. 3 on both sides. This targeted initiative, specifically tailored for the maintenance of the Vande Bharath rake, incorporates a red indicator light pole seamlessly integrated with an audible siren. The primary objective of this system is to provide both visual and auditory alerts to the staff, effectively communicating the charged status of the Overhead Electric (OHE) power line. This strategic implementation serves as a proactive measure in mitigating potential risks and further underscores our unwavering commitment to ensure a safe operational environment.

Materials Used

- | | |
|--------------------------|-----------|
| • 1 ½" GI Pipe | – 20 Feet |
| • 3" Round Plate | – 02 Nos. |
| • 1sq mm wire | – 30 m |
| • ½" Spring hose | – 30 m |
| • 150 mm tag | – 15 Nos. |
| • 8 x 30 Bolt and Nut | – 08 Nos. |
| • ¼" spring washer | – 08 Nos. |
| • Insulation Tape | – 02 Nos. |
| • 12V Rotary Signal lamp | – 02 Nos. |
| • Single pose MCB switch | – 02 Nos. |

Device features

The signaling device is composed of a robust 3-meter galvanized iron pole, featuring a blinking rotary signal lamp at one end and secure clamp fittings for mounting at the other end. To ensure safety and durability, the internal wiring of the blinking rotary signal lamp is meticulously routed through the pole and encased in a corrugated tube conduit. The operational switch for the entire setup is conveniently located beneath the pit line, mounted on the catwalk pillar.

Operation Procedure

Before energizing the OHE, operating staff are required to activate the blinking rotary signal lamp by toggling the MCB switch located beneath the pit line on the catwalk pillar. This action triggers the rotary signal light, emitting a cautionary red light and siren voice to alert staff about the energized condition of the overhead power line. Following the completion of the de-energization process, the operating staff can deactivate the indicator by turning off the MCB switch.

Kindly access the provided link to review the operational procedure







<https://youtube.com/watch/4iJR8zhkm28?si=1nWBOWDZrxjXK6g9>

This comprehensive signaling system not only visually indicates the status but also ensures an audible warning, promoting a safer working environment around the OHE Power line. The inclusion of both visual and auditory alerts enhances overall awareness, contributing significantly to the secure operational setting near the Overhead Electric (OHE) power line.

Future scope

Looking ahead, there are strategic initiatives to enhance the current signaling light system. The future advancements involve the integration of both red and green lights, signifying energized and de-energized statuses, respectively. Notably, this planned upgrade envisions a fully automated signaling system, eliminating the necessity for manual intervention. This forward-looking approach prioritizes operational efficiency and safety, facilitating a seamless and autonomous signaling process for transitions between energized and de-energized states.

5. Uploaded support Documents/Photographs/Diagram:

<p>Blinking rotary signal light with</p>  <p>siren</p>	 <p>Metal clamp with mounting bolt nuts</p>	 <p>Metal clamp with mounting bolt nuts</p>
 <p>Spring hose pipe for wiring</p>	 <p>1 1/2" GI Pipe Pole for light mounting</p>	 <p>Single pole MCB switch</p>



Signal pole installed on east side
of pit line No. 3



Signal pole installed on west side
of pit line No. 3

Prepared by

M. Manthira Moorthy

SSE/C&W/TEN

G. Ramamoorthy

Asst/C&W/TEN

6. Contact person Name : Shri. S. BALAMURUGAN

7. Contact person Designation : SSE/C&W/TEN

Jan- 2024

INNOVATION:-

6. Name of Railway:- Southern Railway
7. Name of the Subject:- Bottle Holder Modification in Tr.No. 20666/65 TEN-MS Vande Bharat
8. Name of Good work:- Bottle Holder Modification in Tr.No. 20666/65 TEN-MS Vande Bharat
9. Summary and Detailed Description:-

Bottle Holder Modification in T.No:20666/65 (TEN -MS) Vande Bharat Express

Passenger complaints were received regarding the unavailability of a bottle holder in the middle row seats of all coaches.

As per the current design, passengers have to utilize the bottle holder attached to the seat in-front. Recognizing the absence of a front seat in the middle row and the presence of a wooden snack table instead, a thoughtful modification initiative was undertaken, successfully incorporating extra bottle holders into the middle row to enhance passenger convenience and accessibility during travel. The modification was also tested to see if there is any inconvenience to the seating of a passenger due to it.

10. Uploaded support Documents/Photographs/Diagram:








Before Modification









After Modification



8. Contact person Name : Shri. S. BALAMURUGAN
9. Contact person Designation : SSE/C&W/TEN

Si.No	Deatiled Description	Picture
1	<p><u>Gauge for Measuring Air Spring Height</u></p> <p>Stainless steel gauges of 2.5 mm thickness plate for measuring Air Spring Height.</p>	
2	<p><u>GO /NO GO gauge for measuring Bump stop Clearances</u></p> <p>Two numbers of Go / No Go gauge for measuring of Vertical, Longitudinal and lateral bump stop clearance was developed.</p>	
3	<p><u>Plunger wall thickness measuring Caliper</u></p> <p>To measure the wall thickness of Buffer plunger through out a full length a extension was made and fitted with vernier caliper arms.</p>	
4	<p><u>Gauge for Measuring Web Rim Thickness</u></p> <p>Scissor type calliper made of stainless steel was developed to measure Web Rim Thickness. (web thickness of 14mm+3 or 17mm+3)</p>	
5.	<p><u>Air Bellow Top Plate Remover aiding kit</u></p> <p>An adopter was fabricated to dismantle top plate from air bellow in air spring arrangement.</p>	
6.	<p><u>Gadget of keeping one bogie over the another bogie</u></p> <p>A gaget was developed to keep one bogie over the another bogie. Hence, occupying space reduced and more bogies can be stocked.</p>	
7	<p><u>Torque Wrench Calibration Test Bench</u></p> <p>To ensure the accuracy of torque wrench the test bench with pre set torque value was fabricated.</p>	

8.	<p><u>Pedal Operated Dustbin for Multi Purpose</u></p> <p>An innovation made in the dust bins by single operation of foot pedal. The dustbin will open, and at the same time already available garbages will be squeezed.</p>	
9	<p><u>Foot Pedal operated Liquid soap dispenser and Hand wash</u></p> <p>During COVID-19 pandemic, foot operated Liquid soap dispenser and foot operated water tap was developed to avoid using of hands.</p>	
10	<p><u>CBC Supporting Screw Jack Type Gadget</u></p> <p>CBC supporting screw jack type gadget was made to remove CBC supporting assembly from coach body at pitline itself.</p>	
11	<p><u>Wire Rope and Pulley Mechanism for Manual Release of DV</u></p> <p>To eliminate DV struck up, a release mechanism was developed by utilizing SS wire rope (3 mm) and Pulley (5 Nos.)</p>	
12	<p><u>Tri Wheel Material Trolley</u></p> <p>Tri-wheel trolley was fabricated to carry goods up & down on irregular pathways, staircases as well as on flat ground.</p>	
13	<p><u>Instructional Videos for Educating C&W Staff's in LHB Maintenance</u></p> <p>Detailed Instructional video on the following subjects was made with QR code.</p> <ol style="list-style-type: none"> 1. Schedule attention in LHB coaches. 2. Hand brake trouble shooting in LHB coaches. 3. Air spring suspension. 	
14	<p><u>Provision of Stopper in Hand BrakeArrangement</u></p> <p>The stopper was made to avoid damaging of the limit switch in LWLRRM Hand Brake.</p>	