

East Central Railway Danapur



Electrical (G)

Danapur Division

Organization Diagram of Electrical (G) Department/DNR

Sr.DEE (G)
(Shivendra Kumar)
(Mob:- 9771449300)

DEE (G)
(MD.Fiyazhussain)
Mob:- 9771449305

DEE (Coaching)
(MD.Fiyazhussain)
Addnl.

SSE/PH/
IAJ

SSE/PH/
KIUL

SSE/PH/
MKA

SSE/PH/
BKP

SSE/PH/
RGD

SSE/PH/
PNBE

SSE/PH/
PPTA

SSE/PH/
DNR

SSE/PH/
ARA

SSE/PH/
BXR

SSE/DG/
PNBE

SSE/PH/
DIGHA

SSE/PH/
JHD

SSE/AC/RNCC

SSE/TL/RNCC

SSE/AC/DNR

SSE/TL/DNR

SSE/AC & TL /RGD

SSE/AC & TL /ARA

A: -(POWER)

Escalators over Danapur Division (16 Nos.)

SL.	Station	Platform	Location
01	PNBE	PF-10	Middle FOB
02	PNBE	PF-10	Middle FOB
03	PNBE	PF-10	East FOB
04	PNBE	PF-01	West FOB
05	PNBE	PF-01	East FOB
06	PNBE	PF-01	East FOB
07	PNBE	PF- 04& 05	Middle FOB
08	PNBE	PF- 04 & 05	Middle FOB
09	RJPB	PF-01	East FOB
10	RJPB	PF- 02 & 03	East FOB
11	ARA	PF-01	New FOB
12	ARA	PF- 02 & 03	New FOB
13	BXR	PF-01	New FOB
14	BXR	PF- 02 & 03	New FOB
15	PPTA	PF-01	(Up direction)
16	PPTA	PF-01	(Down Direction)

Lifts over Danapur Division (30 nos.)

SL.	Station	No of Lift	Location
01	BXR	01	PF-01
02	BXR	01	PF- 02 & 03
03	RJPB(T)	01	PF-01
04	RJPB(T)	01	PF- 02 & 03
05	RJPB(T)	01	PF-04
06	ORH(RJPB)	01	Residential building
07	Rail Ashray	02	Residential building
08	Rail Vihar	02	Residential Building
09	Digha	02	Block "A"
10	Digha	02	Block "B"
11	Digha	03	Block "C"
12	Digha	02	(ORH)
13	PPTA	01	PF-01
14	PPTA	01	PF- 04 & 05
15	MHX	01	Meeting Hall
16	Central Hospital	02	Main Entrance
17	Central Hospital	01	Back Entrance
18	Patna Jn.	01	PF-10
19	Patna Jn.	01	PF-01
20	Danapur	01	PF-01
21	Ara	02	PF-04/01

Roof Top Solar System in Danapur Division



SL	Station	Location	Capacity of Solar (kWp)
01	Rajendra Nagar	Station Building	75
		RNCC Depot	260
		New ORS	20
		Guard Room	30
		Total at RJPB:-	385
02	Patna Junction	Central Hospital	145
		Station Building	442
		Power House	50
		Total at PNBE:-	637
03	Danapur	DRM Office	250
		Railway Hospital	150
		Railway School	100
		Station Building	20
		OPD Railway Hospital	100
		Total at DNR:-	620
04	Patliputra	Platform Shed	140
		Total at PATLIPUTRA:-	140
05	Rajgir	Platform Shed	50
		Rest house(open line)	100
		Total at RGD:-	150
06	5 no. stations	1.Pws	1.20
		2.PNC	2.70
		3.FUT	3.20
		4.BARH	4.20
		5.BKP	5.20
		Total	150
07	PRP DIGHA	PATEL SPORTS STADIUM	260

		TOTAL	260
		Total in DNR Division	2342 KWP

Provision of 100 feet National Flag over Danapur Division.



SL	Station	Location
01	Patna Jn.	Circulating Area (North Side)
02	Rajendra Nagar (T)	Circulating Area
03	Patliputra JN.	Circulating Area
04	Danapur JN.	Circulating Area
05	Danapur	Jagjivan Stadium
06	ARA	Circulating Area
07	Jamui	Circulating Area
08	Lakhisarai	Circulating Area
09	Shekhpura	Circulating Area
10	Nawada	Circulating Area
11	BXR	Circulating Area

Provision of HVLS (High Volume Low Speed) Fan over Danapur Division.



SL	Station	No of HVLS Fan	Location
01	Patna Junction	03	Main Concourse North Side
02	Patna Junction	04	Waiting hall cum booking office
03	Karbigahiya End	02	Main Concourse South Side
04	Central Hospital	01	Main Concourse
05	Patliputra	01	Main Concourse
06	Patliputra	02	Platform no-01
07	ARA	01	Main Concourse
08	Buxer	02	Main Concourse
09	Patna city	01	Main Concourse
10	Jhajha	02	Main Concourse
11	Dildarnagar	01	Booking Office
12	Mokama	03	Main Concourse
13	Barh	01	Main Concourse
14	Barh	01	Booking Office
15	Digha	02	Stadium
16	Rajgir	01	Main Concourse
	Total:-	28	

Façade lighting -

❖ Patna Jn.



❖ Rajendra Nagar :-



❖ Patliputra : -



❖ Jhajha :-



❖ ARA Jn.:-



❖ **Rajgir:-**



❖ **Provision of Hi Mast Light over Danapur Division.**



SL	Location	No of Tower	SL	Location	No of Tower
01	JAJ	13	22	BEA	1
02	GHR	1	23	DURE	2
03	JMU	2	24	BXR	3
04	KEU	7	25	DLN	1
05	LKR	5	26	PPNG	1
06	HTZ	1	27	TEA	2
07	MKA	2	28	JHD	3
08	BARH	2	29	JHDC	1
09	BKP	1	30	CKH	2
10	FUT	10	31	SRY	4
11	PNC	1	32	WRS	8
12	GZH	2	33	NWD	2
13	RNCC	4	34	SHK	3
14	RJPB	5	35	TIA	1
15	PNBE	10	36	WZJ	1
16	MHX	1	37	WENA	2
17	PWS	3	38	BEHS	2
18	DNR	21	39	RGD	5
19	BTA	2	40	PPTA	10
20	KUA	2	41	PRP Digha	6
21	ARA	10	42	TRG	3
			Total		168

❖ **Solar E.V. Charging System: -**

✓ Provided in Divisional Rail Manager Office at Danapur.



- ❖ No of HT Connection: - 27 Nos. (33 KV= 03, 11 KV = 24 Nos.)
- ❖ No of LT Connection: - 139 Nos. (Station= 74, L.C. Gate= 65 Nos.)
- ❖ No of High Mast Tower: - 168 Nos.
- ❖ No of Electrified Halt/Station: - 158 Nos.
- ❖ No. of Electrified quarters: - 4191 Nos.
- ❖ No. of stationary DG sets: -57 Nos.
- ❖ No. of Air-Conditions (Split & Window) : -1003 Nos.
- ❖ No. of Centralized AC Unit (Ton): -1825.50Tons.
- ❖ No. of Water coolers: - 87 Nos.
- ❖ No. of Pumps: 200 Nos.

❖ No. of Power Depots:19

(JAJ, KEU, SHK, NWD, MKA, BARH, BKP, BEHS, RGD, FUT, PNC, RJPB, PNBE, JHD, PPTA,DNR,ARA,BXR,)DLN

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B.(COACHING - AC&TL)

DEPOT DETAILS: -**{1} RAJENDRA NAGAR COACHING COMPLEX: -**

SL	TYPE OF COACH	HOLDING	BARE
01	LWFAC (1st AC) (TEJAS)	5	4
02	LWACCW (2nd AC) (TEJAS)	12	10
03	LWACCN (3rd AC) (TEJAS)	27	22
04	LWCBAC (Pantry car) (TEJAS)	3	2
05	LWLRRM (Power car) (TEJAS)	5	4
06	LWFAC (1st AC)	23	16
07	LWFCWAC (1st & 2nd ac)	2	0
08	LWACCW (2nd AC)	70	32
09	LWACCN (3rd AC)	148	102
10	LWACCNE (Economy 3rd AC)	18	15
11	LWACCNAA (Economy 3rd AC)	0	0
12	LWCBAC (Pantry car)	17	14
13	LWLRRM (Power car)	30	22
14	LWSCN (Sleeper)	139	96
15	LWS (General)	71	73
16	LSLRD	21	18
17	LWSCZAC Janshabdi AC)	6	7
18	LWSCZ (Janshabdi non-AC)	49	42
	<u>TOTAL</u>	646	479

❖ RNCC DEPOT HAVE ONLY LHB TYPE OF COACHES**❖ 03 NO. VANDE BHARAT EXP STARTED**

- 1) (22349/50) w.e.f. 28.06.2023 between **PNBE - RNC.**
(Rake composition -DTC- 02, TC – 02, MC-04, **Load detail= 08 nos).**
- 2) (22347/48) w.e.f. 26.09.2023 between **PNBE - HWH.**
(Rake composition - TSDTC-2, TSMC-8, TSTC-4, TSNDTC-2 ,**Load detail= 16nos).**
- 3) (22345/46) w.e.f. 18.03.2024 between **PNBE – GTNR.**
(Rake composition - DTC- 02, TC – 02, MC-04, **Load details= 08 nos)**
- 4) 94804/03 Namo Bharat Rapid Rail Started w.e.f 25.04.2025 between PNBE – JYG.
(PM- RNCC)
- 5) (22361/62) Amrit Bharat Exp w.e.f 31.07.2025 between **RJPB- NDLS. (PM- RNCC)**

{2} DANAPUR COACHING COMPLEX: -

❖ DETAILS OF LHB TYPE OF COACHES: -

SL	TYPE OF COACH	HOLDING	BARE
01	LWFAC (1st AC)	3	1
02	LWACCW (2nd AC)	14	4
03	LWACCN (3rd AC)	15	10
04	LWACCNE (Economy 3rd AC)	1	1
05	LWCBAC (Pantry car)	3	1
06	LWLRRM (Power car)	7	6
07	LWSCN (Sleeper)	14	20
08	LWS (General)	69	73
09	LSLRD	7	6
10	LWSCZAC (Janshabdi AC)	0	1
	TOTAL	133	123

❖ DETAILS OF ICF (NON-LHB) TYPE OF COACHES: -

SL	TYPE OF COACH	HOLDING	BARE
01	WGSCZACJ (Janshabdi AC chair car)	2	0
02	WGSCZJ (JanshabdiNon-AC chair car)	3	0
03	WGSCZRJ	0	0
04	WGFAC (1st AC)	0	0
05	WGFACCW (1st & 2nd AC)	0	0
06	WGACCW (2nd AC)	12	7
07	WGCWNAC (2nd & 3rd AC)	0	0
08	WGACCN (3rd AC)	20	9
09	WGACCN/C 3rd AC)	0	0
10	WGSCZAC (AC chair car)	3	1
11	GS/GSCZ (General)	96	95
12	GS/GSCZ/C (General)	4	0
13	WGSCN (Sleeper)	72	45
14	WGSCN/C (Sleeper)	2	0
15	WGCB (Pantry car)	0	0
16	SLR	24	14
17	SLR/C	0	0
	TOTAL	238	171

{3} RAJGIR COACHING COMPLEX: -

❖ DETAILS OF LHB TYPE OF COACHES: -

SL	TYPE OF COACH	HOLDING	BARE
01	LWFAC (1st AC)	4	3
02	LWACCW (2nd AC)	11	6
03	LWACCN (3rd AC)	25	18
04	LWCBAC (Pantry car)	4	3
05	LWLRRM (Power car)	4	3
06	LWSCN (Sleeper)	22	18
07	LWS (General)	14	12
08	LSLRD	4	3
01	TOTAL	88	66

❖ DETAILS OF ICF (NON-LHB) TYPE OF COACHES: -

SL	TYPE OF COACH	HOLDING	BARE
01	WGFACCW (1st & 2nd AC)	3	0
02	WGACCW (2nd AC)	4	2
03	WGACCN (3rd AC)	8	4
04	GS/GSCZ (General)	50	48
05	WGSCN (Sleeper)	28	12
06	WGCB (Pantry car)	0	0
07	SLR	7	6
	TOTAL	100	72

{4} ARA COACHING COMPLEX: -

❖ DETAILS OF LHB TYPE OF COACHES: -

SL	TYPE OF COACH	HOLDING	BARE
01	LWFAC (1st AC)	10	6
02	LWACCW (2nd AC)	16	12
03	LWACCN (3rd AC)	46	36
04	LWLRRM (Power car)	15	8
05	LWSCN (Sleeper)	45	36
06	LWS (GENERAL)	36	52
07	LSLRD	9	8
08	LWACCNE (Economy 3rd AC)	2	8
09	LWSCZAC	0	2
10	LWSCZ	12	6
11			
	TOTAL	191	174

❖ ~~ARA~~ DEPOT HAVE ONLY LHB TYPE OF COACHES

{5}PATNA COACHING COMPLEX: -

❖ **DETAILS OF ICF (NON-LHB) TYPE OF COACHES: -**

SL	TYPE OF COACH	HOLDING	BARE
01	WGFAC (1st AC)	1	0
02	WGACCW (2nd AC)	5	4
03	WGACCN (3rd AC)	7	4
04	WGCWNAC (2nd & 3rd AC)	12	0
05	GS/GSCZ (General)	18	12
06	WGSCN (Sleeper)	36	24
07	WGCB (Pantry car)	0	0
08	SLR	10	4
	TOTAL	89	48

❖

❖ PATNA COACHING depot have only ICF (Non-LHB) type of coaches

❖ **HOLDING of DNR division LHB & ICF coaches**

HOLDING			Total HOLDING
DEPOT	LHB	ICF	
RNCC	646	0	646
DNR	133	238	371
RGD	88	100	188
ARA	191	0	191
PNBE	0	89	89
TOTAL	1058	427	1485

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ANALYSIS RAIL MADAD COMPLAINS FOR FY- 2024-2025.

RAIL MADAD COMPLAINS MONTH WISE								WORST TRAIN FAILURE					
Month	No. of complain	Air Conditioner	Charging Points	Fan	Light	Other	Train no.	Grand Total	Air Conditioner	Charging Points	Fan	Light	Other
April' 24	2162	1498	369	176	78	41	13202	220	190	15	12	0	3
							13288	118	108	6	3	0	1
							2351	105	91	8	4	1	1
							2352	205	181	7	9	6	2
MAY' 24	2172	1501	410	186	51	24	12391	96	67	11	11	3	4
							13201	101	64	30	1	6	0
							2351	86	64	14	6	2	0
							3256	114	110	2	0	1	1

JUNE' 24	1902	1328	283	212	49	30	12391	70	57	5	6	1	1
							13287	65	36	16	11	1	1
							2392	90	78	8	0	4	0
							3253	78	72	1	2	1	2
Jul'24	1072	619	258	140	40	15	12391	54	42	6	5	0	1
							13201	43	22	13	1	2	5
							13239	39	25	3	10	0	1
							13288	42	21	12	7	1	1
Aug.'24	815	450	241	79	34	11	12391	27	16	10	1	0	0
							13202	32	12	17	1	2	0
							13287	32	20	6	3	1	2
							3253	27	15	6	5	1	0
Sept'24	723	375	206	94	32	16	12391	46	29	9	7	1	0
							12392	43	23	14	5	1	0
							13201	32	17	11	3	0	1
							13288	30	11	11	5	2	1
Oct'24	668	395	191	47	23	12	13202	52	33	14	1	2	2
							13240	60	44	8	5	1	2
							13287	31	22	4	3	2	0
							2394	36	28	8	0	0	0
Nov'24	852	417	328	46	43	18	13202	33	16	11	3	2	1
							13287	36	19	15	0	2	0
							2393	36	15	20	0	0	1
							2394	46	29	15	0	1	1
Dec'24	694	319	292	27	39	17	12391	41	29	10	1	1	0
							13202	35	17	15	1	2	0
							13287	42	17	19	1	2	3
							13288	36	16	16	0	2	2
Jan'25	675	379	230	17	25	24	12391	40	28	9	0	2	1
							13201	40	25	13	1	1	0
							13202	49	28	14	4	2	1
							13287	37	15	16	4	0	2

							13288	41	20	15	0	1	5
Feb'25	822	454	231	42	21	25	13201	68	45	15	3	3	2
							13202	61	37	17	0	1	6
							13287	54	29	18	3	1	3
							12394	46	29	13	0	0	4
Mar'25	738	388	220	24	24	18	13287	47	32	12	1	0	2
							13202	42	19	19	0	1	3
							12391	32	26	5	1	0	0
							12392	31	22	7	1	0	1
April' 25	699	230	220	19	29	32	13201	44	31	7	3	5	2
							13202	48	31	8	4	5	0
							13287	64	39	15	6	2	2
							13288	60	44	12	3	1	0
MAY' 25	1183	698	288	128	46	23	13287	39	18	9	5	3	4
							12391	43	21	10	5	3	3
							13288	42	18	9	6	4	5
							13201	24	13	4	2	2	3
JUNE' 25	1529	854	279	170	54	45	12391	87	72	9	3	2	1
							13288	66	42	14	8	1	1
							13287	61	35	13	11	0	2
							03253	51	13	5	20	1	12
JULY' 25	1172	563	302	148	39	20	12391	74	44	14	13	3	0
							13287	71	39	19	7	4	2
							13288	64	40	13	10	1	0

							13201	47	29	15	2	0	1
AUG' 25	1136	543	345	155	61	32	13287	70	38	20	9	0	3
							12391	58	39	11	4	3	1
							22361	54	1	43	7	2	1
							22362	53	0	43	9	0	1

Major complaints area for reducing Rail Madad

- Total 39 nos (Primary-36nos & TOD-03 nos) of LHB rakes and Total- 06nos of ICF rakes is being maintained on over DNR division.
- Generally major complain occurs on account of AC cooling and charging points.
- For ICF rakes additionally the problem is related to compromised battery backup due to either poor battery health or due to slow overall running to due traffic congestions or caution.
- 34 sets(RNCC-05 sets & DNR-29 Sets) of 120 Ah battery have been changed in TL coaches against defective and overaged in FY-2024-25
- Sufficient length of cables for platform charging of platform return SG rakes has been arranged at PNBE and DNR to meet any issue related to drained out batteries.
- At present, charging facility for SG rakes available at maintenance pits at DNR and all platforms of PNBE. Necessary repair of 415 V charging points has been done. However, new provision of 415V & 110V charging facilities at coaching maintenance depot including platforms for passing trains over Danapur division has been processed under PH-42 which under Account vetting.

Work done and work under pipe line

- In every trip each and every mobile charging points of the rake are checked by maintenance staff and 02nos coaches of the rake are being counter checked by the concerned rake supervisor on regular basis to ensure working . 93 nos. at RNCC & 22 nos. at DNR replaced out of 507 nos. (RNCC-312 nos & 195 nos.) switch plate assemble which were received from Harnaut & feeding depot/SPJ. Balance quantity is being replaced. 100 RCBO planned for change in upcoming month.

Regular work done during maintenance work

- Thermal scanning of SBC panel, Power Panel and DG sets being done regularly at RNCC and DNR coaching depot . Total 443 coaches including power cars/LSLRD & pantry cars.
- Scheduled cleaning by Air pressure of SBC panel of AC and TL coaches, Power panel of Power car , Battery box, Transformers, Fuse Boxes being done.
- ZS coupler of power car checked monthly at neck for any sign of breakage.
- RMPU filter cleaning done in every trip . In monthly schedule cooling coil and condenser coils are cleaned at pit.

Sensitizing maintenance staff, escorting staff and train passing staff.

- All AC maintenance staff, escorting staff & train passing staff (Railway & outsourced) have been counseled for proper maintenance of AC coaches. Departmental Passing staffs have specially been deployed at ARA, DNR, PNBE, RJPB and RGD to ensure that the enroute problems specially of minor nature like charging point not working etc gets attended at these points to minimize passenger inconvenience.
- Proper dress code and name plates being ensured for escorting staffs so that passenger may recognize escorting staff to avoid delay in attention of Rail Madad complain. ACCIs are required to paste their mobile number in every coaches before the start of journey and personally inform the passengers about it.
- DNR control as well as escorting staffs are aware of the fueling stations enroute to coordinate for fueling requirements if any in long distance trains.
- The DNR control has mobile number of every on duty escorting staff and they regularly interact to resolve passenger complaints.
- Two Senior SSE specially attached in control room to monitor the passenger issues reported.

THANK YOU