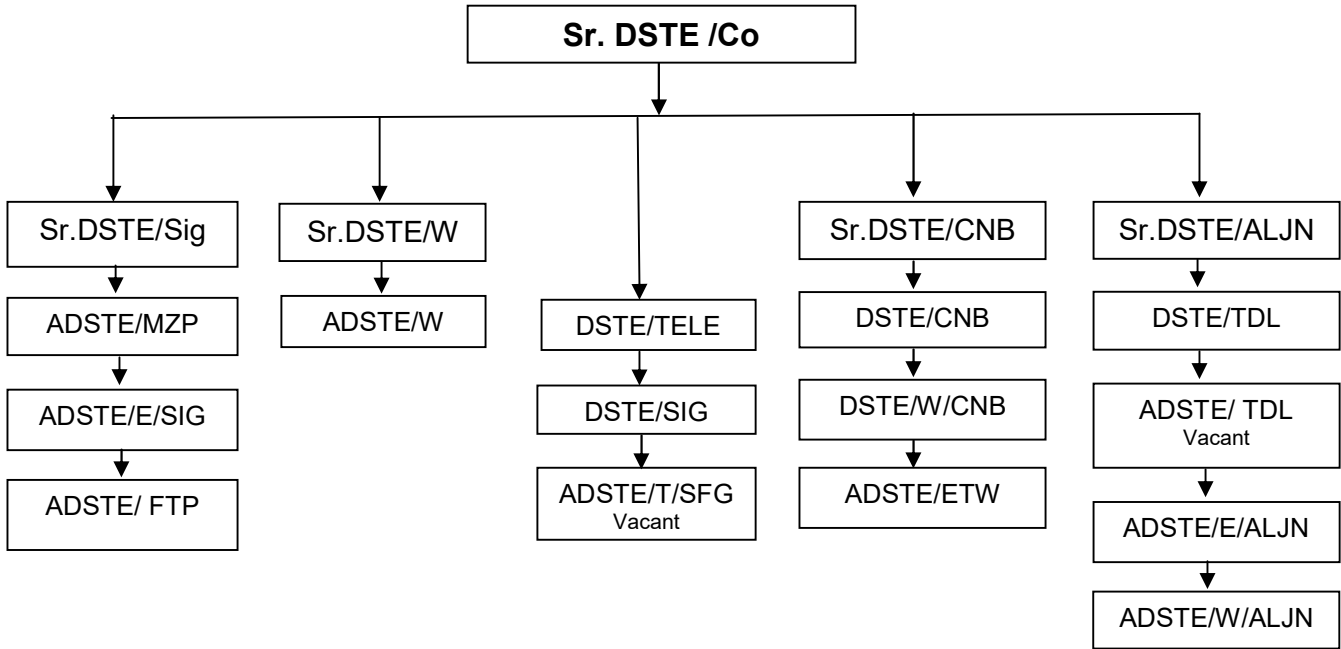


9.0 Signal & Telecommunication

ORGANISATION CHART



Note - The S&T Branch is headed by Sr.DSTE/Co, headquartered at Prayagraj who is assisted by four Sr.DSTEs (02 at Prayagraj, 01 each at Kanpur & Aligarh), 05 DSTEs (02 at Prayagraj, 02 at Kanpur & 01 Tundla) and 07 ADSTEs, (02 at Prayagraj, 01 each at Mirzapur, Fatehpur, Etawah & 02 at Aligarh).

9.1 S&T Installations:

(A) Signaling system:

(i) Type of Interlocking:

Route	Section	RRI	Panel	EI	Block Hut	Electro-mech.	Mechanical	Interlocking	Signaling	No. of Stations
A	GZB- DDU	02	01	96	01 (BH-TT)	01 (GMC A&B Cabin)	-	IIIR	MACLS	101
B	MKP-LKJN	-	03	10	-	-	-	IIR	MACLS	13
B	CNB-CPA	-	01	-	-	-	-	II(R)	MACLS	01
E	CAR-CPU	-	-	04	01 (BH-R)	02 (CUK, AGY)	-	I(R)& II®	MACLS	07
E	SKB- FKD	-	01	04	-	-	-	II(R)& III(R)	MACLS	05
E	MNQ-ETW	-	01	-	-	-	-	II(R)	MACLS	01
E	ALJN-HGJ	-	02	-	-	-	-	III (R)	MACLS	02
E	ETH-BRN	-	-	1	-	-	01 (ETH)	II(R)&Mod. N/I	Mod. N/I	02
E	HRS- HRF	-	-	-	-	-	01 (HRF)	One T/Only		01
Total		02	09	115	02	03	02			133

(B)Telecommunication:

i) Control Communication

S.No.	Route	Control Section	Communication Media
1	A	DDU - PRYJ	On Railway Owned OFC
2	E	CAR-CPU	SBDR - CAR; On Railway Owned OFC SBDR - AGY; On Rly owned 6 Quad cable
3	A	KCN-MRE (Area CNL)	On Railway Owned OFC
4	A	PRYJ-CNB	On Railway Owned OFC
5	A	SSL - RRH (Area CNL)	On Railway Owned OFC
6	A	RRH-SKB (Incl. ETW Branch)	On Railway Owned OFC
7	A	SKB-SNS (Area CNL)	On Railway Owned OFC
8	E	SKB-FKD (Area CNL of SKB-SNS)	On Railway Owned OFC (SKB-MNQ) Other section on Railway owned U/G 6 Quad Cable
9	A	SNS - GZB	On Railway Owned OFC
10	B	PRYJ-NYN-MKP	On Railway Owned OFC
11	E	ALJN - HGJ	On Railway Owned OFC
12	E	ETH - BRN	Non-Controlled

ii) Telephone Exchange:

Station	Type of Exchange	Capacity	Installation Year
MZP	Electronic Exchange	128 ports	2003
CAR	Electronic Exchange	128 ports	2003
DDU (DRM/O)	ISDN Exchange	4000 ports	2003
PRYJ(NCR/HQ)	ISDN Exchange	2000 ports	2008
FTP	Electronic Exchange	128 ports	2006
GMC	RLU (CNB)	396 ports	2011
CNB	ISDN Exchange	3000 ports	2011
ETW	Electronic Exchange	128 ports	2009
TDL	Electronic Exchange	1500 ports	2012
ALJN	Electronic Exchange	520 ports	2019
ACOI	Electronic Exchange	300 ports	2019
NYN	Electronic Exchange	256 ports	2019
SFG	Electronic Exchange	300 ports	2019
PRYJ Station	Electronic Exchange	300 ports	2019

9.2 Performance - Signal

S.No.	I T E M	TARGET (2021-22)	Actuals (Upto Feb)			Variation of 2021-22 wrt	
			2019-20	2020-21	2021-22	2019-20	2020-21
1	Signal Failures	4604	4763	3604	4177	(+)12.30%	(-)15.90%
2	Signal Failures attributed to S&T	2412	2213	1888	2111	(+)4.61%	(-)11.81%
3	Overhauling of signaling gears.						
	a)Leverframes	100% due (5)	7	5	6		
	b)Block Instt.	100% due (6)	26	21	6		
	c) Relays	100% due (1500)	2511	2472	2537		
4	Station Inspection F/P Inspection	100% due 100% due	100% 88%	76.12% 12.22%	81.15% 46.39%	(-)18.85% (-)47.25%	(+)6.60% (+)279.62%

Classification of Signal Incidences

SN	Items	Cumulative till February			% variation of 2021-22 wrt	
		(19-20)	(20-21)	(21-22)	2019-20	2020-21
1	Point Machine	155	120	213	-77.50	-37.42
2	Bad weather	22	7	51	-628.57	-131.82
3	Track device (UAC/SSDAC/MSDAC)	73	72	86	-19.44	-17.81
4	Right during testing	359	284	344	-21.13	4.18
5	BPAC	17	43	54	-25.58	-217.65
6	Poor drainage	93	32	90	-181.25	3.23
7	GJ defect	222	146	232	-58.90	-4.50
8	Fuse disconnection	18	17	23	-35.29	-27.78
9	AFTC	355	340	364	-7.06	-2.54
10	Track Lead	15	11	22	-100.00	-46.67

9.3 PERFORMANCE - TELECOM

S.No.	I T E M	TARGET (2021-22)	Actuals (Upto Feb)			Variation wrt 2019-20	Variation wrt 2020-21
			2019-20	2020-21	2021-22		
5	Efficiency of Railway owned CNL circuits						
	a) RE/Q Cable	99%	99.24%	99.81%	99.96%	(+) 0.73%	(+) 0.15%
	b) OFC	100%	99.90%	99.85%	99.98%	(+) 0.08%	(+) 0.13%
6	Efficiency of DOT owned CNL circuits	--	--	--	--		
7	Training - Refresher						
	a) SSE/JE/Sig	32	41	35	28		
	b) SM	65	61	162	97		
	c) SSE/JE/Tel	19	07	17	16		
	d) TCM	32	39	31	29		