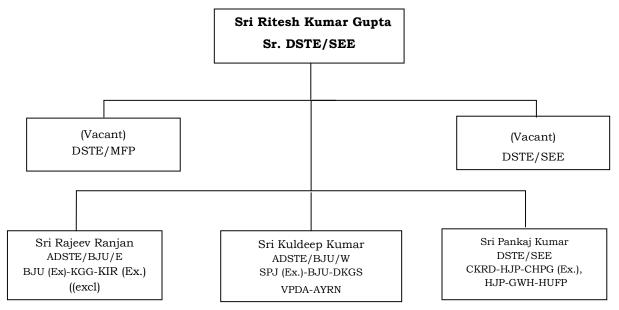
Signal & Telecommunication

General Information

I. Organization of Officers of Sonpur Division-



II. NON GAZETTED:

GROUP	SANCTION POSTS	ACTUAL POSTED	VACANT
"C"	512	441	71
"D"	341	324	17
TOTAL	853	765	88

III. SIGNALING ASSETS AT A GLANCE

U/East), GHZ (GHZ-
, CDBN, ATNR, BRKB,
D, AYRN, PHLG, MNO, SDG,
, TUR, KHI, KRBP, DUBH,
SAI, BCA, VPDA, MOG,
S, KGG, PARUKHAS, NAZJ,
,

5.	Block Instrument	
i)	Tokenless Block Instrument	04 Sets (Diado Type)
ii)	SGE Double line Block Instrument	10 Sets
iii)	UFSBI Block Instrument	69 Sets (Including 19 sets of SSBPAC)
iv)	UFSBI/MUX	10 sets (NNR-BRKB IBH-PSR, LC 52/HJP-LC 53C/HJP, LC53/HJP-HJP, BCA-MPNH, MPNH-TGA, LC36/DES-SDG, LC43/AYRN-CSR, UJP-Belari, Belari-SPJ)
6.	Electric Point Machine	1269 Nos.
7.	Axle Counter (for Block Proving)	157 Sets
8(i)	Axle Counter in parallel with Track Circuit	18 Nos. at 09 stns
(ii)	MSDAC in place of Track Circuit	01 Stn. (MFP-89 T/S, DP-245 Nos.)
(iii)	MSDAC in parallel of Track Circuit	08 Stns. (VPDA-13 T/S; MOG-13 T/S; NNNL- 15 T/S; SPP-21 T/S, DP-29; SDG-17 T/S, DP-24; MNO-15 T/S, DP-22; AYRN-T/S-23, DP-35; CKRD-T/S-18, DP-26)
9(i)	Integrated Power Supply (IPS)	111 Nos. (70 stns + 19 Nos. additional+ 05 Nos. IBH+ 15 Nos. LC gates +02 Nos Training school)
(ii)	Mini IPS/Inverter	LC gates: Mini IPS (36 Nos.)
10(i)	Data Logger	91 Nos. (70 stns. + 13 additional + 03 Nos. IBH/ATNR, IBH/MPNH, IBH Belari + 05 Nos. LC-4ASpl/SEE-PMU, LC-106Spl/MFP-KVC)
(ii)	RTU	53 Nos. (49 Nos LC gates + 03 Nos. IBH (IBH/BRKB, IBH/BUJ, IBH/CDBN)+ 01 No. ZRTI)
11.	Total No. of Interlocked LC-Gate	183 Nos.
12.	Total No. of Gate telephones	640 Nos. (Magneto telephone-368, Non recording type m/slave phone-86, recording type m/slave phone-186)
13.	DESU	207937
1.4	CHAMADY OF LOCATES	

14. SUMMARY OF LC GATES

	TRAFFIC				Engg.	
Class	Interlocked	Non- Interlocked	Total	Interlocked	Non- Interlocked	Total
Spl	38	0	38	26	7	33
A	26	0	26	18	7	25
B1	06	0	06	5	13	18
B2	10	0	10	7	23	30

В	00 40	0	00 40	00	00 82	00 89
TOTAL MANNED LC	120	O	120	63	132	195
UN-MANNED	0	0	0	0	0	0
GRAND TOTAL	120	0	119	63	132	195

15. Position of interlocked LC gates in SEE Division

Class	Traffic	Engineering	Total
Spl	38	26	64
A	26	18	44
B1	06	5	11
B2	10	7	17
В	00	00	00
С	40	07	47
Total	120	63	183

IV. TELECOMMUNICATION ASSETS AT A GLANCE

1	Quad & OFC cable	503 RKM (Entire Division)	
2	Section Control Boards	05 Nos. SPP Board-(HJP-SPP-BCA), KIR Board-(KIR-BJU),	
	with voice logger	KTI Board-(KTI-DKGS), CPR Board-(CPR-NRPA), BJU Area	
		Control Board-(STJT, VPDA, BCA-BGS, GHZ cabin, DKGS &	
		RJO)	
3	Telephone Exchanges	06 Nos. (02 NosServer based IP ExchSEE & HJP; 04 Nos-TDM	
		ExchMFP, GHZ, KGG & THB)	
4	OFC Coverage	All sections of SEE division except HUFP-VSHI section.	
5	TPC Control	BJU-BCA-SPP-SEE-GJH, HJP-MFP-SPJ-BCA, BJU-KIR	
6	Remote Control	GJH-HJP, HJP-MFP-SPJ-BCA, HJP-SPP-BCA-DKGS, BJU-KIR	
7	Passenger Amenities		
I	Manual PA System	Provided at all stations in SEE division	
II	Electronic Digital Clock	09 Nos. (MNE, THB, BJU, BGS, KGG, SEE, HJP, MFP, NBJU)	
III	NTES (National Train	Sonpur Control, Sonpur Station, Hajipur, Muzafferpur,	
	Enquiry System)	Naugachiya, Khagaria, Barauni,	
IV	Auto Announcement	16 Nos. (SEE, HJP, MFP, BJU, BGS, KGG, MNE, THB, MSK,	
	System	NNR, KHQ, DSS, SPP, BJU Bypass, DES, NNA)	
V	FCT with Jio sim	All of Common Library	
	provided instead of BSNL	All stations and Enquiry.	
	Telephone on station & Enquiry	Total - 83	
VI	Coach indication board	07 Nos. (HJP, MFP, BJU, BGS, KGG, SEE, BJU Bypass)	
VII	TIB (Train Indication	09 Nos. (HJP, MFP, BJU, MNE, THB, BGS, KGG, SEE & BJU	
	Board)	Bypass)	
VIII	LCD Display	06 Nos. (HJP, MFP, BJU, MNE, KGG, BGS, SEE)	
IX	Video Enquiry System	03 Nos. (HJP, MFP, BJU)	

X	Wi-fi facility	67 Nos. stations in SEE division
XI	Computerized Reservation Charting System	04 Nos. (HJP, MFP, BJU, KGG)
XII	CCTV	CCTV installed at 08 Nos. stations (SEE, HJP, MFP, BJU, KGG, NNA, MNE, BGS) + Rly. Hospital/SEE & GHZ, DRM/office/SEE, Zonal HQ/HJP, BJU, BCA & MFP for yard monitoring, DKGS, STLR & SMO- at Weigh bridge, Officer colony Sonpur, HHP BJU, GSD/GHZ, LC No. 07/RD-MFP, at 18 Nos. RPF Post (12)/outpost (06), all running rooms, Guard & Driver lobby)
XIII	PRS	Locations-16 Nos. (DGA, SEE, HJP, MFP, DOL, KRBP, DSS, BJU, BGS, KGG, MNE, NNA, THB, KPGM, GRL, BNR)
XIV	UTS	Locations-67 Nos. (SMO, THB, NNA, KUE, CRR, MNE, KGG, UMNR, MSK, SKJ, LKN, BGS, BJU, BCA, DSS, TGA, RD, DUBH, SSO, KPGM, KRBP, DOL, NRPA, MFP, BNR, SAI, GRL, MOG, SPP, DES, AYRN, HJP, SEE, PMU, NYO, DGA, BAGL, GJH, TUR, KHI, UJP, TIL, SLT, STJT, STLR, NAZJ, LAK, PSR, DKGS, KTRH, NNR, SDG, MNO, CSR, VPDA, KHQ, GAI, CKRD, DPL, BKHR, NNNL, PHLG, GWH, SBDP, HUFP, LLJP, VSHI)
XV	Video Conferencing System	SEE, HJP, MFP & HHP Loco shed/BJU
XVI	UPT (UTS cum PRS terminal)	Locations-17 Nos. (SAI, MNO, VPDA, UJP, AYRN, DES, SPP, MOG, BCA, TGA, BJU Bypass, LKN, MSK, NNR, KUE, CRR & SMO)
XVII	On-Line booking of retiring room	Locations-07 Nos. (SEE, HJP, MFP, BJU, BGS, KGG, NNA)
XVIII	DETU	121928

V. Information Technology:

S. No.	Equipment	Remarks	
1	Railnet facility	Provided for 775 users in division.	
2	CMS	03 (Sonpur, Muzaffarpur and Barauni)	
3	COIS/ICMS (Coaching Operation Information System / Integrated Coaching Management System)	03 Sonpur (CTNL & Carriage Control), Muzaffarpur (TNC /CDO) and Barauni (TNC/CDO)	
4	FOIS Terminal (Freight Operation Information System)	17 (Sonpur, Sarai, Narayanpur Anant, Karpurigram, Barauni, Begusarai, Khagariya, Mansi, Naugachiya, Kursela, Semapur, IORG BJU, Sitalpur, Hajipur, Dinkargram Simariya, Tilrath, CYM/GHZ Cabin)	
5	T.M.S. (Terminal Management System)	17 (Sonpur, Sarai, Narayanpur Anant, Karpurigram, Barauni, Begusarai, Khagariya, Mansi, Naugachiya, Kursela, Semapur, IORG BJU, Sitalpur, Hajipur, Dinkargram Simariya Tilrath, CYM/GHZ Cabin)	

6	(TSR) Train Signal Register system	05 Stns. (HJP, MFP, BJU, KGG, MNE)
7	Parcel Management System(PMS)	03 Stations (HJP, MFP & BJU)
8	IPAS (Integrated payroll & accounting system)	Sonpur, Barauni
9	Control Chart	All the 05 Boards digital integrated with COIS.

VI. HIGHLIGHTS OF SIGNALING & TELECOMMUNICATION FROM Apr'2023 TO Mar '2024 in 2023-24 financial year.

	2025-24 financial year.
	Panel Interlocking-02 Nos. Panel Interlocking has been commissioned at new stations LLJP on
	11/10/2023 & VSHI on 24/01/2024in continuity to HUFP-
	Electronic Interlocking-Total 03 Nos. Electronic Interlocking has been commissioned at new station
	PARUKHAS in continuity to VSHI 24/01/2024 and at NAZJ, UJP in place of Panel Interlocking in
	order to ABS commissioning on 09/03/2024.
1	> KRBP yard has been modified with addition of new private siding and provision of additional
	facility with Shunt Signal 105 for movement in private siding on 22/12/2023.
	> NNA yard has been modified in existing PI in connection with provision of shunt signals on goods
	siding and machine siding and Tower wagon siding at Naugachia (NNA) station 03/03/2024
2	New Control Building has been commissioned with commissioning of new modern equipments at SEE
	& the old equipment were shifted from old control room to new building. Entire building of New
	Control has been provided with Wi-Fi facility. All the boards and PC of New Control has been provided
	with high speed Internet facility by segregating bandwidth through V-LAN to meet the requirements.
3	Interlocking of LC Gates-Total 06 Nos. LC gate has been interlocked (48B2/UJP-SPJ, 10C/LLJP,
	19B2/KGG-MNE, 17C/VSHI, 1B/KGG-Olapur, 1B/KGG-HSS)
	Note-02 Nos. LC gate 1B/KGG-Olapur, 1B/KGG-HSS taken over from SPJ division
4	Sliding Boom-06 Nos. sliding boom has been commissioned at LC gate (48B2/UJP-SPJ, 10C/LLJP,
	19B2/KGG-MNE, 17C/VSHI, 1B/KGG-Olapur, 1B/KGG-HSS)
	Note-02 Nos. LC gate 1B/KGG-Olapur, 1B/KGG-HSS taken over from SPJ division
5	Electric Lifting Barrier- Total 10 Nos. EOLB have been commissioned/replaced (LC 48B2/UJP-SPJ,
	10C/LLJP, 19B2/KGG-MNE, 17C/VSHI, 1B/KGG-Olapur, 1B/KGG-HSS, 65C/KRBP, 32Spl/DSS,
	3T Spl/GHZ, 40C/NAZJ, 29B2/SKJ, 41C/NAZJ, 14C/STLR) in which 04 Nos. have been done during
	interlocking of LC gate, 03 Nos. conversion of mechanical lifting barrier to EOLB, 04 Nos. in place of
	worn out EOLB,
	Note-02 Nos. LC gate 1B/KGG-Olapur, 1B/KGG-HSS taken over from SPJ division
6	UFSBI-03 set UFSBI have been commissioned in LLJP-HUFP, HUFP-VSHI, VSHI-PARUKHAS
	sections
7	BPAC-03 set HASSDAC have been commissioned in LLJP-HUFP, HUFP-VSHI, VSHI-PARUKHAS
,	sections.
8	RTU-06 Nos. RTU has been commissioned at mid-section interlocked LC gates (14B C/MOG,
	19B2/MNE, 29C/MNO, 22Spl/SPP, 52C/TIL-BGS, 22A/MNE-KGG)
9	MSDAC-MSDACs have been commissioned in parallel to track circuit at MOG (13 Nos. track
	sections), NNNL (15 Nos. track sections) & VPDA (13 Nos. track sections)
10	DLBI-08 Nos. overaged DLBI have been replaced for GWH-HJP/02, GRL-BNR/02, TGA-BJU/02,
	TIL-BJU/E/02 sections.

11	Automatic Fire detection & Alarm System-Automatic Fire detection and Alarm System has been			
10	installed at PARUKHAS, VSHI, LLJP, BJU/ERH & BJU/E			
12	Remote Diagnostic Preventive Maintenance System (RDPMS) -RDPMS system has been installed at STLR, DGA, PMU, BAGL, GJH for real time health monitoring of different gears like track circuits,			
	Electrical point machines & Signals.			
13	Networking and validation of datalog	ger-Networking and v	alidation of datalogger has been done at	
15	LLJP, 19B2/KGG-MNE	ger-retworking and vi	andation of datalogger has been done at	
14	Monitoring of ELD through Data Logg	ers-Monitoring of ELI	O through Data logger has been provided	
	at LLJP KPGM, BCA/C, KGG/C, KGG/	, .		
15	Provision of S&T Key Boxes- S&T Key		l set of keys as per JPO issued from HQ	
	have been provided in SM's room at all s	tations in SEE division		
16	Defective/low insulation Cable	Target	Cumulative Mar'24	
	replacement	rarget	Cumulative Mai 24	
(a)	Signaling Cable	150 Km	54.165 Km	
		130 1411	3 1.103 Kill	
(b)	Telecom Cable	30 Km	15.436 Km	
17	Permanent Joints-142 Nos. permanent join	nt was done different sect	ion during rectification of 6 and cable	
1,	Termanent gomes-142 1vos. permanent jon	it was done afficient seet	ion during recurrences of a quad casic.	
18	IP Based-Exchange has been commis	ssioned at 03 station	ns (MFP, THB, KGG) to cater the	
	communication load at these location.			
19	STM 1 & PD MUX each one has been c	ommissioned at LLJP		
20		CUC 1 T'II 1	2000 N	
20	Implementation of enlargement of Mobile			
21	provided to group-D&C staff of different Provision of VPN connections- More than	_		
21	access E-office remotely.	30 Ramiet VI IV comice	ction provided to failway officials to	
22	SIM based Router-03 Nos. of SIM based	router has been provide	ed for FOIS(BTPS/BJU, IORG/BJU and	
	HURL/BJU)			
23		Hon'ble PM's VC Program- Video conferencing facility for 03 mega program has been organized at various railway stations in Sonpur division for inauguration/foundation laying/ dedication of various		
	railway projects over this division. For that arrangement of video wall, PA System, video conferencing			
	equipment along with last mile connectiv	ity has been arranged.		
24	Maintenance free earthing-33 Nos. mai	ntenance free earthing	was provided at CRR, SMO and BKHR,	
	NBJU-UMNR (04 Nos), NNA-KHQ(03	Nos), GHZ/Exch, GH	Z/MW, BCA, TGA,SMO, CRR, KIBH,	
	KTRH, THB, NNA, GAI, PSR, MNE, UI	MNR, SKJ, DPL, TIL	& BGS station.	
25	Fire Extinguisher- Fire Extinguisher	(CO2 type. 4.5 Kg)	each installed at BJU/Enquiry, East	
	Outer/BJU, Jn-Cabin-GHZ, OFC room	at DKGS, BCA, STJ	T, DSS & NAZJ, BJU/Enquiry, TGA	
	station, East Outer/BJU, Jn-Cabin/GHZ,	OFC room of DKGS st	tation, West Panel/BJU, East Panel/BJU,	
	GHA exchange, exchange battery room, MW/OFC room/GHZ, BCA, STJT, NAZJ & UJP station.			
26	CCTV Camera-13 Nos. CCTV cameras were installed at Running Room/BJU-06 Nos. & LC Gate No-			
	6: 07 Nos respectively.			
27	Surge Protection Device-26 Nos. SPD connection was provided at GHZ/Exch, MW/GHZ, Cabin/GHZ,			
	DKGS, STJT, DSS, NAZJ, UJP, SMO, CRR, KBH, KTRH, THB, NNA, GAI, PSR, MNE, UMNR,			
	SKJ, DPL, TIL, SKJ, BKHR, KUE, SMC			
28	Battery sets-Total 116 Nos, 2V/200AF		<u> </u>	
40		<u> </u>	• •	
	BKHR, SIHO, TIL & SKJ. Further, 4 No	os, 12 v/200AH battery	was installed at each KHI, NKPA, SLI,	
	KRBP& KPGM station.			

VII Scrap Disposal-

5287 Nos. batteries and **173** Nos. DG sets have been offered to stores for Scrap.

Ferrous 64 MT

Total Ferrous material 64 MT

Non- ferrous 1.891 MT

Total Non-ferrous material 1.891 MT

Other Scrapi.Batteries1195 Nos.materialii.DG sets10 Nos.

Total scrap disposal material completed-65.891 MT & (1195 Nos. batteries, 10 Nos. DG set) VIII. ASSISTANCE REQUIRED

i. Following materials are required on urgent basis for expeditious commissioning of various targeted reliability improvement work in division-

S. No.	Items	Provision of Freight Terminal at KTRH	Provision of additional loop line at DUBH	Provision of shunt signal at SMO	Interlocking of LC gates	Total
1	12C signaling cable	120 Km	30 Km	40Km	50 Km	240 Km
2	OFC Cable	1.5Km	1.5 Km	-	-	3 Km
3	IPS (6L)	1 No.	-	-	-	1 No.

Indents for cables and IPS have already been placed for procurement at HQ level.

ii. Post of ASTE/MFP is Vacant from March 2023