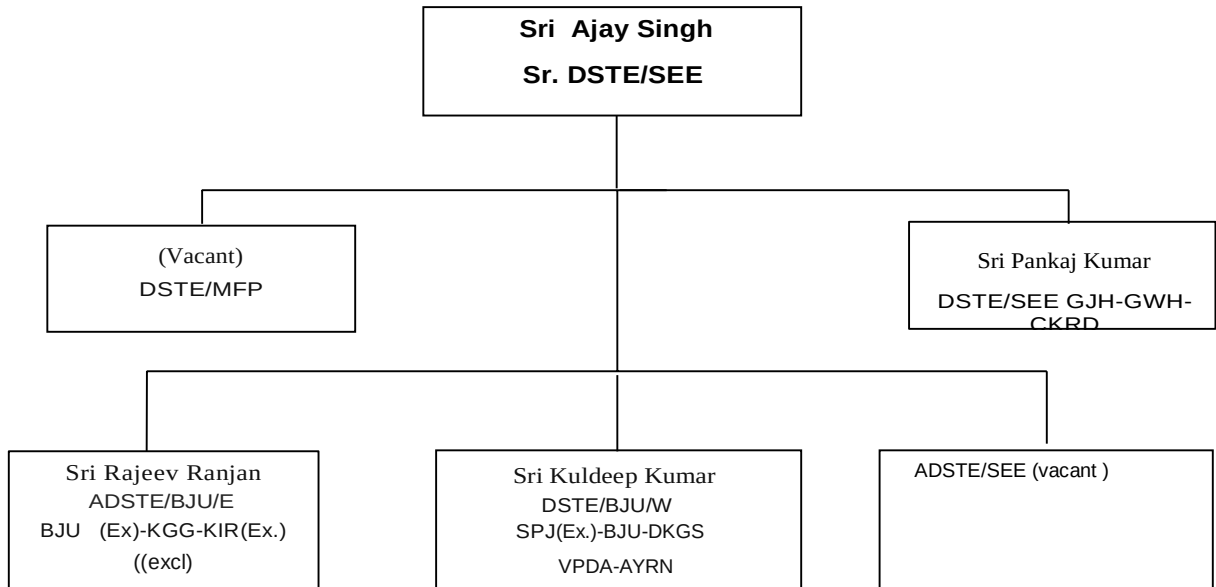


Signal&Telecommunication

General Information

I. Organization of Officers of Sonpur Division-



II. NONGAZETTED:

GROUP	SANCTIONPOSTS	ACTUALPOSTED	VACANT
"C"	512	441	71
"D"	341	324	17
TOTAL	853	765	88

III. SIGNALINGASSETSATAGLANCE

1.	Total No.of Stations	70
i)	Central Panel	68
ii)	End Panel	02BJU(BJU/West-BJU/East),GHZ(GHZ-GHZ A cabin)
iii)	IBH	06Nos.(BLRI,MPNH,CDBN,ATNR,BRKB, BUJ)
2	Type of Interlocking	
i)	EI	32Stns.(CSR,DES,CKRD,AYRN,PHLG,MNO,SDG, KBH,NRPA,KUE,GHZ,RD,TUR,KHI,KRBP,DUBH, DOL, SSO, GRL, BNR, SAI, BCA, VPDA, MOG,NNNL,SPP,BJU/E,DKGS,KGG,PARUKHAS,NAZ J, UJP)
ii)	PI	36
iii)	RRI	02(HJP,MFP)
3.	Type of Signals	
i)	Station with LED Signal	70Stations
4.	Standard of Interlocking	
i)	Standard II(R)	69Stations.

ii)	Standard I	01Station(BJU)
5. Block Instrument		
i)	Tokenless Block Instrument	04Sets (DiadoType)
ii)	SGE Double line Block Instrument	10Sets
iii)	UFSBI Block Instrument	69Sets(Including19setsofSSBPAC)
iv)	UFSBI/MUX	10sets(NNR-BRKBIBH-PSR,LC52/HJP-LC53C/HJP, LC53/HJP-HJP, BCA-MPNH, MPNH-TGA,LC36/DES-SDG,LC43/AYRN-CSR,UJP-Belari, Belari-SPJ)
6.	Electric Point Machine	1269Nos.
7.	Axle Counter (for Block Proving)	157Sets
S(i)	Axle Counter in parallel with Track Circuit	18Nos.at09stns
(ii)	MSDAC in place of Track Circuit	01Stn.(MFP-89T/S,DP-245Nos.)
(iii)	MSDAC in parallel of Track Circuit	08Stns.(VPDA-13T/S;MOG-13T/S;NNNL-15T/S;SPP-21T/S,DP-29;SDG-17T/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	111Nos.(70stns+19Nos.additional+05 Nos. IBH+15Nos. LC gates +02 Nos Training school)
(ii)	Mini !PS/Inverter	LC gates: Mini IPS(36Nos.)
10(i)	Data Logger	91Nos.(70stns.+13additional+03Nos. IBH/ATNR, IBH/MPNH, IBH Belari + 05Nos. LC-4ASpl/SEE-PMU, LC-106Spl/MFP-KVC.....)
(ii)	RTU	53 Nos.(49NosLCgates+03Nos.IBH (IBH/BRKB,IBH/BUJ,IBH/CDBN)+01No. ZRTI)
11.	Tota lNo.of Interlocked LC-Gate	183Nos.
12.	Total No.of Gate telephones	640 Nos. (Magneto telephone-368, Non Recording type m/s lave phone-86,recording type m/slave phone-186)
13.	DESU	207937

14.	SUMMARY OF LC GATES						
	B	00	0	00	00	00	00
	C	40	0	40	07	82	89
	TOTAL MANNED LC	120	0	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 SEEDivision						
	Class	Traffic	Engineering	Total			
	Spl	38	26	64			
	A	26	18	44			
	Bl	06	5	11			
	B2	10	7	17			
	B	00	00	00			
	C	40	07	47			
	Total	120	63	183			

IV. TELECOMMUNICATION ASSETS AT A GLANCE

1	Quad & OFC cable	503RKM(Entire Division)					
2	Section Control Boards With voice logger	05 Nos. SPP Board-(HJP-SPP-BCA), KIR Board-(KIR-BJU), KTI Board-(KTI-DKGS), CPR Board-(CPR-NRPA), BJU Area Control Board-(STJT, VPDA, BCA-BGS, GHZcabin, DKGS&RJO)					
3	Telephone Exchanges	06Nos.(02Nos.-Server based IP Exch.-SEE&HJP;04Nos-TDM Exch.-MFP,GHZ,KGG&THB)					
4	OFC Coverage	All sections of SEE division					
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						
	Manual PA System	Provided at all stations in SEE division					
II	Electronic Digital Clock	09Nos.(MNE,THB,BJU,BGS,KGG,SEE,HJP,MFP,NBJU)					
		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
	Bl	06	0	06	5	13	18
	B2	10	0	10	7	23	30

III	NTES (National Train Enquiry System)	Sonpur Control, Sonpur Station, Hajipur, Muzaffarpur, Naugachiya, Khagaria, Barauni,
IV	Auto Announcement System	16Nos.(SEE,HJP,MFP,BJU,BGS,KGG,MNE,THB,MSK, NNR,KHQ,DSS,SPP,BJUBypass,DES,NNA)
V	FCT with Jio sim Provided instead of BSNL Telephone on station & Enquiry	All stations and Enquiry. Total - 83
VI	Coach indication board	07Nos.(HJP,MFP,BJU,BGS,KGG,SEE,BJUBypass)
VII	TIB(Train Indication Board)	09Nos.(HJP,MFP,BJU,MNE,THB,BGS,KGG,SEE&BJU Bypass)
VIII	LCD Display	06Nos.(HJP,MFP,BJU,MNE,KGG,BGS,SEE)
IX	Video Enquiry System	03Nos.(HJP,MFP,BJU)
X	Wi-fi facility	67Nos.stations in SEE division
XI	Computerized Reservation Charting System	04Nos.(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-16Nos. (DGA,SEE,HJP,MFP,DOL,KRBP,DSS, BJU,BGS,KGG,MNE,NNA,THB,KPGM,GRL,BNR)
XIV	UTS	Locations-67Nos. (SMO,THB,NNA,KUE,CRR,MNE,KGG, UMR,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, HUF, LWP, VSHI)
XV	Video Conferencing System	SEE,HJP, MFP&HHP Locoshed/BJU
XVI	UPT (UTS cum PRS terminal)	Locations-17Nos. (SAi,MNO,VPDA,UJP,AYRN,DES,SPP, MOG,BCA,TGA,BJUBypass,LKN,MSK,NNR,KUE,CRR&SMO)
XVII	On-Line booking of Retiring room	Locations-07Nos. (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)	03Sonpur(CTNL&Carriage Control),Muzaffarpur(TNC /CDO) and Barauni(TNC/CDO)
4	FOIS Terminal (Freight Operation Information System)	17(Sonpur,Sarai,NarayanpurAnant,Karpurigram, Barauni,Begusarai,Khagariya,Mansi,Naugachiya, Kursela,Semapur,IORGBJU,Sitalpur,Hajipur,DinkargramSimar iya, Tiltrath, CYM/GHZ Cabin)
5	T.M.S. (Terminal Management System)	17(Sonpur, Sarai, NarayanpurAnant, Karpurigram, Barauni,Begusarai,Khagariya,Mansi,Naugachiya, Kursela,Semapur,IORGBJU,Sitalpur,Hajipur,DinkargramSimar iya Tiltrath, CYM/GHZ Cabin)
6	(TSR) Train Signal Register system	05Stns.(HJP,MFP,BJU,KGG,MNE)
7	Parcel Management System(PMS)	03Stations(HJP,MFP&BJU)
8	IPAS(Integrated pay roll& Accounting system)	Sonpur, Barauni
9	Control Chart	All the 05 Boards digital integrated withCOIS.

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

	Panel Interlocking-02 Nos. Panel Interlocking has been commissioned at new stations LLJP on 11/10/2023 & VSHI on 24/01/2024 in continuity to HUPF-
	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	<p>► KRB Pyard 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.</p> <p>► 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</p>
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	<p>Interlocking of LC Gates-Total 06 Nos. LC gate has been interlocked (48B2/UJP-SPJ, IOC/LLJP, 19B2/KGG-MNE, 17CNSHI, IB/KGG-Olapur, IB/KGG-HSS)</p> <p>Note-02 Nos. LC gate IB/KGG-Olapur, IB/KGG-HSS taken over from SPJ division</p>
4	<p>Sliding Boom-06 Nos. sliding boom has been commissioned at LC gate (48B2/UJP-SPJ, IOC/LLJP, 19B2/KGG-MNE, 17CNSHI, IB/KGG-Olapur, IB/KGG-HSS)</p> <p>Note-02 Nos. LC gate IB/KGG-Olapur, IB/KGG-HSS taken over from SPJ division</p>

5	Electric Lifting Barrier -Total 10 Nos. EOLB have been commissioned/replaced (LC 48B2/UJP-SPJ, IOC/LLJP, 19B2/KGG-MNE, 17CNSHI, IB/KGG-Olapur, IB/KGG-HSS, 65C/K.RBP, 32Spl/DSS, 3TSpl/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 IB/KGG-Olapur, IB/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 HASDAC 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 (14BC/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)		
	DLBI-08 Nos. averaged 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 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 datalogger -Networking and validation of datalogger has been done at LLJP, 19B2/KGG-MNE		
14	Monitoring of ELD through Data Loggers -Monitoring of ELD through Datalogger has been provided At LLJP KPGM, BCA/C, KGG/C, KGG/W, KGG/E, BJU/E.		
15	Provision of S&T Key Boxes -S&T Key Boxes with additional set of keys as per JPO issued from HQ Have been provided in SM's room at all stations in SEE division		
16	Defective/low insulation Cable replacement	Target	Cumulative Mar'24
(a)	Signaling Cable	150Km	54.165Km
(b)	Telecom Cable	30Km	15.436Km
17	Permanent Joints-142 Nos. permanent joint was done in different section during rectification of 6 quad cable.		
18	IP Based-Exchange has been commissioned at 03 stations (MFP, THB, KGG) to cater the Communication load at these location.		
19	STM1 & PDMUX each one has been commissioned at LLJP, VAISHALI,		
20	Implementation of enlargement of Mobile CUG scheme -Till date 2999 Nos. of Airtel CUG SIM has been provided to group-D & C staff of different departments, under the scope of enlargement of CUG facility.		
21	Provision of VPN connections -More than 50 Railnet VPN connection provided to railway officials to Access E-office remotely.		
22	SIM based Router-03 Nos. of SIM based route has been provided for FOIS (BTPS/BJU, IORG/BJU and HURL/BJU)		

23	Hon'ble PM'sVC 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 connectivity has been arranged.
24	Maintenance free earthing -33 Nos. maintenance free earthing was provided at CRR, SMO and BKHR, NBJU-UMNR(04 Nos), NNA-KHQ(03 Nos), GHZ/Exch, GHZ/MW, BCA, TGA, SMO, CRR, KIBH, KTRH, THB, NNA, GAI, PSR, MNE, UMNR, 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, STJT, DSS & NAZJ, BJU/Enquiry, TGA station, East Outer/BJU, Jn-Cabin/GHZ, OFC room of DKGS station, 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, SMO OFC room and MFP/enquiry, BGS
28	Battery sets -Total 116 Nos, 2V/200AH battery was installed for OFC equipment 24 Nos. at each BKHR, SIHO, TIL & SKJ. Further, 4 Nos, 12V/200AH battery was installed at each KHI, NRPA, SLT, KRBP & KPGM station.

VII Scrap Disposal-

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

Ferrous 64MT

Total Ferrous material

64MT

Non-ferrous 1.891MT

Total Non-ferrous material

1.891MT

Other Scrap i. Batteries

1195Nos.

material ii. DG sets

10Nos.

Total scrap disposal material completed-65.891MT&(1195Nos.batteries,10Nos.DGset)

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
[J	12C signaling cable	120Km	30Km	40Km	50Km	240Km
2	OFC Cable	1.5Km	1.5Km			3Km
3	IPS(6L)	1No.				1No.

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

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