

Salient Features of Signal & Telecom of DNR Division

1.	Number of Stations	98 Stns. + 8 IBH
2.	Route Kilometer	887.836 Km.
3.	Type of Signaling & Standard of interlocking	
(i)	JAJ-KCA	MACLS, STD-III R
(ii)	PNBE-GYA	MACLS, STD-II R
(iii)	KEU-GYA	MACLS, STD- II R
(iv)	BKP-RGD-TIA	MACLS, STD- II R
(v)	LINK-RJO	MACLS, STD- II R
(vi)	FUT – IPR	MACLS, STD- II R
(vii)	DNR-PPTA	MACLS, STD- II R
(viii)	TIA-KHRUN	MACLS, STD- II R
(ix)	SHK-BARBIGHA	MACLS, STD- II R
(x)	IPR-NES	MACLS, STD- II R
4.	Block Working	
(i)	TLBI (Tokenless Diado)	2 Nos. [PHK-NTPC (ROR Line), PHK-NTPC (Surface Line)]
(ii)	One Train Only System	1 No. (DLN-TRG)
(iii)	UFSBI (Universal Fail Safe Block Interface)	114 Sets (JAJ-NGO, JAJ-DPX, DPX-GHR, GHR-CUX, CUX-JMU, JMU-BFM, BFM-MNP, MNP-BSQ, KEU – BSQ, KEU-MKB, MKB-BRYA, BRYA-RDUM, RDUM-HTZ, HTZ-TAL, TAL-MKA, MKA-MOE, MOE-PHK, PHK-RH, RH-ATL, ATL-BKP_LINK, BKP_LINK-BKP, BKP-TKBG, TKBG-KWO, KWO-KOO, KOO-FUT, FUT-BKG, BKG-PNC, PNC-GZH, GZH-RJPB, PNBE-SCY, SCY-PWS, PWS-DNR, NEO-BTA, BTA-BHC, BHC-KUA, KUA-ARA, ARA-KRS, KRS-BEA, BEA-BYN, BYN-RPR, RPR-TWG, TWG-DURE, DURE-BUE, BUE-BXR, BXR-CSA, CSA-GMR, GMR-BWH, BWH-DLN, DLN-DRV, DRV-ZNA, ZNA-DHA, DHA-SLD, SLD-KCA, KCA-MGS, PRBZ-PNBE, PRBZ-PPN, PPN-PET, PET-NDW, NDW-TEA, TEA-NDU, NDU-JHD, JHD-THA, THA-MDE, MDE-BLA, BLA-CKH, CKH-GYA, KEU-KRTR, KEU – DNRE, KRTR-SRY, SRY-SHK, SHK-KSC, KSC-WRS, WRS-NWD, NWD-TIA, TIA-WZJ, WZJ-KRJR, KRJR-PMI, PMI-MPO, PMI-BANDHUA, BKP-KRNN, KRNN-HRT, HRT-WENA, WENA-BEHS, BEHS-POE, POE-NLD, NLD-SILO, SILO-RGD, LINK-RJO, LINK-RDUM, LINK-TAL, SEA-RJO, PPTA-DNR, PPTA-PWS, PPTA-PHLG/East, PPTA-PHLG/West, FUT-DHWN, DHWN-BEHS, SGYN-HIL, HIL-IPR, KRNN-BKP_LINK, BKP_LINK-ATL, ATL-RH, RH-NTPC, RGD-NES, NES-JTIN, JTIN-ORO, ORO-TIA, TIA-KHRUN, SHK-SARSA JMP, ARA-GQN, KDJB-IPR, KTRI-NES, KTRI-KDJB & DNR-NEO

5.	Number of RRI	3 Stns. (DNR, PNBE, JAJ)
6.	Number of EI	28 Stns. (GMR, ARA, BHC, BTA, NEO, SCY, RH, BKP, BKP_LINK, ATL, HTZ, KEU, BFM, JMU, CUX, PPTA, SGYN, IPR, KDJB, KTRI, KRNN, SHK, TIA, WZJ, KRJR, PMI, KHRUN, NES)
7.	Number of PI	67 Stns. (KCA, SLD, DHA, ZNA, DRV, DLN, BWH, CSA, BXR, BUE, DURE, TWG, RPR, BYN, BEA, KRS, KUA, PWS, RJPB, GZH, PNC, BKG, FUT, KOO, KWO, TKBG, PHK, MOE, MKA, TAL, RDUM, BRYA, MKB, BSQ, MNP, GHR, DPX, DHWN, HIL, HRT, WENA, BEHS, POE, NLD, SILO, RGD, JTN, ORO, LINK, RJO, KRTR, SRY, KSC, WRS, NWD, PRBZ, PPN, PET, NDW, TEA, NDU, JHD, THA, MDE, BLA, CKH, SARSA JMP)
8.	Axle Counter	
(i)	Number of Axle Counter (Analog)	8 Nos.(KCA-2,BWH-1,DURE-2,TWG-1, BEA-2)
(ii)	Number of Digital Axle Counter (SSDAC)	15 Nos. (BTA-1, PNBE-8, FUT-4, SRY-1, NWD-1)
(iii)	Number of Digital Axle Counter (HASSDAC)	217 Nos. (KCA-3, SLD-2, TLAM IBH-2, DHA-2, BHCL IBH-2, ZNA-2, DRV-2, DLN-2, BWH-2, GMR-3, BQW IBH-2, CSA-2, PWKP IBH-2, BXR-2, BUE-2, DURE-2, TWG-2, RPR-2, BYN-2, BEA-2, SAR IBH-2, KRS-2, ARA-3, JMR IBH-2, KUA-2, BHC-4, BTA-2, SDE IBH-2, NEO-2, DNR-13, PWS-2, SCY-2, PNBE-2, RJPB-2, GZH-2, PNC-2, BKG-2, FUT-3, KOO-2, KWO-2, TKBG-2, BKP-4, BKP_LINK-1, ATL-1, RH-4, PHK-2, MOE-2, MKA-2, TAL-2, HTZ-2, RDUM-3, BRYA-2, DMRX IBH-2, MKB-2, KEU-10, BSQ-1, MNP-2, BFM-2, JMU-2, CUX-1, GHR-3, DPX-2, JAJ-3, PPTA-3, DHWN – 1, SGYN-1, IPR-1, KDJB-1, KTRI-1, KRNN-3, NES-1, JTN-1, ORO-2, LINK-2, RJO-2, KRTR-1, SHK-3, KSC-1, WRS-1, TIA-3, WZJ-2, KRJR-1, PMI-4, KHRUN-, SARSA JMP-1, PRBZ-2, PPN-2, PET-2, NDW-2, TEA-2, NDU-1, JHD-2, THA-2, MDE-2, BLA-2, CKH-4, SILO-2, POE-1)
9.	Number of Data Logger	108 Nos. (KCA, SLD, TLAM IBH, DHA, ZNA, DRV, DLN, BWH, GMR, CSA, BXR, BUE, DURE, TWG, RPR, BYN, BEA, XSAN IBH, KRS, ARA-2, JMIR IBH, KUA, BHC, BTA, NEO, DNR-RRI, PWS, SCY, PNBE-RRI, RJPB, GZH, PNC, BKG, FUT, KOO, KWO, TKBG, BKP, BKP_LINK, ATL, RH, PHK, MOE, MKA, TAL, HTZ, RDUM, BRYA, DMRX IBH, MKB, KEU-3, BSQ, MNP, BFM, JMU, CUX, GHR, DPX, JAJ_RRI, PPTA-3, LINK, RJO, PRBZ, PPN, PET, NDW, TEA, NDU, JHD, THA, MDE, BLA, CKH, DHWN, SGYN, HIL, IPR, KDJB, KTRI, KRNN, HRT, WENA, BEHS, POE, NLD, SILO, RGD, NES, JTIN, ORO, KRTR, SRY, SHK, KSC, WRS, NWD, TIA, WZJ, KRJR, PMI-2, KHRUN, SRASA JMP)

10.	Number of IPS	156 Nos. [KCA, SLD, TLAM IBH, DHA, BHCL IBH, ZNA, DRV, LC 87 (DLN-DRV), DLN, LC 85B (BWH-DLN), LC 85A (BWH-DLN), BWH, LC 82B (BWH-GMR), GMR, BQW IBH, CSA, PWKP IBH, BXR-2, BUE, LC 68A (BUE-DURE), DURE, TWG, RPR, BYN, BEA, XSAN IBH, LC 52B (BEA-KRS), KRS, ARA-2, JMIR IBH, KUA, BHC, LC 46S (BTA-BHC), BTA, LC 44S (NEO-BTA), SDE IBH, NEO, LC 38B (DNR-NEO), DNR-4, PWS, SCY, PNBE-4, RJPB-2, GZH, PNC, BKG, FUT-3, 69S (FUT-KOO), KOO, KWO, TKBG, BKP, BKP_LINK, ATL, RH, PHK-2, MOE, MKA, TAL, HTZ, RDUM, BRYA, DMRX IBH, MKB, KEU-4, LC 55S (KEU-BSQ), BSQ, LC 52S (BSQ-MNP), MNP, BFM, JMU, CUX, LC 43S (GHR-CUX), GHR, DPX, LC 38 (DPX-JAJ), LC 39S (JAJ-DPX), JAJ-2, PPTA-3, PRBZ, LC 11A (PRBZ-PPN), PPN, PET, NDW, LC 20 (NDW-TEA), TEA, NDU, JHD, LC 29 (JHD-THA), LC 31 (JHD-THA), LC 30 (JHD-THA), THA, MDE, BLA, CKH, LC 63 (CKH-GYA), LINK, RJO, DHWN, SGYN, HIL, IPR, KDJ, KTRI, KRNN, HRT, WENA, LC 30S (WENA-BEHS), BEHS, POE, NLD, SILO, RGD, NES, JTN, ORO, KRTR, SRY, SHK, LC 11C (SHK-SRY), KSC, WRS, NWD, 29A (NWD-WRS), TIA, LC 48A (TIA-WZJ), WZJ, KRJR, PMI-2, KHRUN, SARSA JMP), LC 69B (BXR), LC 64C (DURE-TWG), LC80B1(GMR), LC 49S (BFM-MNP), LC 50S (BFM-MNP, 102'S' (SLD-KCA)]
11	Level Crossing Gate	Non Interlocked: 122, Interlocked: 127 & Total: 249
12.	LED Signal	98 Stns. (KCA, SLD, DHA, ZNA, DRV, DLN, BWH, GMR, CSA, BXR, BUE, DURE, TWG, RPR, BYN, BEA, KRS, ARA, KUA, BHC, BTA, NEO, DNR, PWS, SCY, PNBE, RJPB, GZH, PNC, BKG, FUT, KOO, KWO, TKBG, BKP, BKP_LINK, ATL, RH, PHK, MOE, MKA, TAL, HTZ, RDUM, BRYA, MKB, KEU, BSQ, MNP, BFM, JMU, CUX, GHR, DPX, JAJ, PPTA, DHWN, SGYN, HIL, IPR, KDJB, KTRI, KRNN, HRT, WENA, BEHS, POE, NLD, SILO, RGD, NES, JTN, ORO, LINK, RJO, KRTR, SRY, SHK, KSC, WRS, NWD, TIA, WZJ, KRJR, PMI, KHRUN, SARSA JMP, PRBZ, PPN, PET, NDW, TEA, NDU, JHD, THA, MDE, BLA, CKH)
13.	IBH	8 Nos. [Tulsi Ashram (TLAM) IBH [SLD-DHA], Bahura Chandil (BHCL) IBH [DHA-ZNA], Barakalan (BQW) IBH [GMR-CSA], Pawani Kamarapur (PWKP) IBH [CSA-BXR], Sarvodaya (XSAN) IBH [BEA-KRS], Jamira (JMIR) IBH [ARA-KUA], Sadisopur (SDE) IBH [BTA-NEO], Dumri (DMRX) IBH [BRYA-MKB]]
14.	Control Communication	
(i)	OFC	JAJ-MGS, PNBE-GYA, KEU-GYA, BKP-RGD-TIA, LINK-RJO, FUT-IPR, DNR-PPTA, TIA-KHRUN SHK-BARBIGHA, IPR-NES & DLN-TRG
15.	Telephone Exchange	
(1)	BXR	224 Port (Intelecon Karel 200 M Make) Electronic Exchange. Installed on 03.03.2016.
(ii)	ARA	144 Port (Karel Make) ISDN Exchange. Installed on 18.09.09.

(iii)	DNR	1200 Line (Coral Telecom Make) IRIX IPDX CLOUD Exchange. Installed on 21.12.20.
(iv)	PNBE	512 Line (Siemens Make, Model- Hipath 4000) Electronic Exchange. Installed on AUG' 2006.
(v)	PNBE (Super Specialist Hospital)	1024 Line (Coral Make) ISDN Exchange. Installed on 25.05.12.
(vi)	RJPB	128 Line (Karel Make) Intelecon Exchange. Installed on 09.02.17.
(vii)	MKA	244 Port (Tata Telecom Make) Electronic Exchange. Installed on 26/03/2000.
(viii)	KEU	224 Line (Karel Make) ISDN Exchange. Installed on 25.06.09.
(ix)	JAJ	224 Line (Karel Make) ISDN Exchange. Installed on 10.07.09.
(x)	DIGHA	500 Line (Naivedyam Make) IP based Exchange. Installed on 17.01.20.
16.	Passenger Amenity	
(i)	Public Address System	101 Nos. (KCA, SLD, DHA, ZNA, DRV, DLN, BWH, GMR, CSA, BXR, BUE, DURE, TWG, RPR, BYN, BEA, KRS, ARA, KUA, KWR, BTA, SDE, NEO, DNR, PWS, SCY, PNBE, RJPB, GZH, PNC, BKG, FUT, KOO, KWO, SMBH, TKBG, BKP, BKP_LINK, ATL, RH, PHK, MOE, MKA, TAL, HTZ, RDUM, BRYA, MKB, LKR, KEU, BSQ, MNP, BFM, JMU, CUX, GHR, DPX, JAJ, PPTA, DHWN, HIL, EKR, IPR, KDJB, KTRI, KRNN, HRT, WENA, BEHS, POE, NLD, SILO, RGD, JTN, ORO, NES, RJO, KRTR, SRY, SHK, KSC, WRS, NWD, TIA, WZJ, KRJR, PMI, SARSA JMP, PRBZ, PPN, PPN/G, PET, NDW, TEA, NDU, JHD, THA, MDE, BLA, CKH, TRG)
(ii)	Unreserved Ticket System (UTS)	85 Stations. [KCA, SLD, DHA, ZNA, DRV, DLN, BWH, GMR, CSA, BXR, BUE, DURE, TWG, RPR, BYN, BEA, KRS, ARA, KUA, KWR, BTA, SDE, NEO, DNR, PWS, PNBE, RJPB, GZH, PNC, BKG, FUT, KOO, KWO, TKBG, BKP, ATL, RH, PHK, MOE, MKA, HTZ, RDUM, BRYA, MKB, LKR, KEU, BSQ, MNP, JMU, GHR, JAJ, PPTA, DHWN, HIL, EKR, IPR, KDJB, KTRI, HRT, WENA, BEHS, POE, NLD, RGD, RJO, KRTR, SRY, SHK, KSC, WRS, NWD, TIA, WZJ, PRBZ, PPN, PET, NDW, TEA, NDU, JHD, THA, MDE, BLA, CKH, TRG]
(iii)	Passengers Reservation System (PRS)	55 Locations. [ZNA, DRV, DLN, BWH, GMR, BXR, DURE, RPR, BEA, ARA, BTA, DNR, PWS, PNBE, RJPB, GZH, PNC, FUT, BKP, RH, MKA, HTZ, BRYA, MKB, LKR, KEU, MNP, JMU, JAJ, PPTA, HIL, EKR, IPR, HRT, BEHS, POE, NLD, RGD, SHK, WRS, NWD, TIA, PPN, TEA, JHD, MDE, ARWL, MHX, PNCG, PNHC, PNML, PNCS, PNUV, PGPN, GSPJ]
(iv)	Platform Clock (Digital)	59 Stns. [KCA, SLD, DHA, ZNA, DLN, BWH, GMR, BXR, DURE, RPR, BYN, BEA, ARA, BTA, DNR, PWS, PNBE, RJPB, GZH, PNC, BKG, FUT, KOO, KWO, BKP, ATL, RH, PHK, MOE, MKA, HTZ, BRYA, LKR, KEU, JMU, GHR, JAJ, PPTA, HIL, IPR, HRT, BEHS, POE, NLD, RGD, SHK, WRS, NWD, PRBZ, PPN, PET, NDW, TEA, NDU, JHD, THA, MDE, BLA, CKH]
(v)	FCT (Fixed Cellular Telephone) with SS/SM	All Stations.
(vi)	Electronic Train Indication Board	16 Stns. (ZNA, DLN, GMR, BXR, ARA, BTA, DNR, PWS, PNBE, RJPB, PNC, BKP, KEU, JMU, JAJ, PPTA)

(vii)	Coach Guidance System	10 Stns. [ZNA, DLN, GMR, BXR, ARA, DNR, RJPB, PNC, JAJ, PPTA]
(viii)	Coach at a Glance (Single Line Single Face)	9 Stns. (ZNA, DLN, GMR, BXR, ARA, BTA, PNBE, RJPB, PPTA)
	Coach at a Glance (Single Line Double Face)	4 Stns. (DLN, BKP, JAJ, PPTA)
(ix)	Computerized Announcement System	23 Stns. (ZNA, DLN, BXR, DURE, ARA, BTA, DNR, PWS, PNBE, RJPB, PNC, FUT, KOO, BKP, RH, MKA, HTZ, BRYA, KEU, JMU, JAJ, PPTA, NWD)
(x)	NTES	10 Stns. (ZNA, DLN, BXR, ARA, DNR, PNBE, RJPB, PNC, BKP, MKA)
(xi)	Video Conferencing Enquiry System	2 Stns. (PNBE-5, RJPB)
(xii)	TMS	11 Stns. (BXR, ARA, BTA, DNR, FUT, MKA, LKR, JMU, JHD, SHK, WRS)
(xiii)	CMS	8 Stns. (DNR, PNBE, RJPB, RH, KEU, JAJ, RGD, TIA)
(xiv)	CCTV at Station	19 Stns. (DLN, BXR, ARA, DNR, PNBE, RJPB, PNC, FUT BKP, RH, MKA, KEU, JMU, JAJ, PPTA, RGD, BEHS, TEA, JHD)
(xv)	CCTV at Railway Hospital	2 Nos. (DNR, PNBE)
(xvi)	CCTV at LC Gate	3 Nos. [LC 1PG'S' (PNBE), LC 33B (PWS), 72B (GZH)]
(xvii)	CCTV at Crew lobby	4 Stns. (DNR, PNBE, RJPB, JAJ)
(xviii)	CCTV at PRS & UTS	15 Stns. (DLN, BXR, ARA, DNR, PNBE, RJPB, PNC, FUT BKP, MKA, KEU, JMU, PPTA, TEA, JHD)
(xix)	CCTV in DRM office	7 Nos. (Portico – 2, DRM's Corridor – 2, Engineering Corridor – 2 & Back Entrance Gate - 1)
(xx)	CCTV in Test Room/Signal Control	1 No.
(xxi)	On – Line booking of Retiring Room	12 Stns. (BXR, ARA, DNR, PNBE, RJPB, PNC, BKP, MKA, KEU, JHD, RGD, SHK)
(xxii)	Face to Face Enquiry	7 Stns. (BXR, ARA, DNR, PNBE-4, RJPB, PNC, PPTA)
(xxiii)	WiFi at Station	97 Stns. (KCA, SLD, TLAM IBH, DHA, ZNA, DRV, DLN, BWH, GMR, CSA, BXR, BUE, DURE, TWG, RPR, BYN, BEA, KRS, ARA, KUA, BTA, SDE, NEO, DNR, PWS, SCY, PNBE, RJPB, GZH, PNC, BKG, FUT, KOO, KWO, TKBG, BKP, BKP_LINK, ATL, RH, PHK, MOE, MKA, TAL, HTZ, RDUM, HTZ_U (LINK) BRYA, MKB, LKR, KEU, BSQ, MNP, BFM, JMU, CUX, GHR, DPX, JAJ, PPTA, DHWN, SGYN, HIL, IPR, KRNN, HRT, WENA, BEHS, POE, NLD, RGD, NES, JTIN, RJO, KRTR, SRY, SHK, KSC, WRS, NWD, TIA, WZJ, KRJR, PMI, PRBZ, PPN, PET, NDW, TEA, NDU, JHD, JHDC,THA, MDE, BLA, CKH, ORO, TRG)
(xxiv)	WiFi at Railway Hospital	2 Nos. (PNBE/CSS Hospital), DNR Railway Hospital
(xxv)	On line Paperless Train Charting Display Board	4 Nos. (DNR, PNBE, RJPB, PPTA)
(xxvi)	Digital Museum	1 Stn. (PNBE)
(xxvii)	Video Walls	1 Stn. (PNBE)
(xxviii)	LED TV	1 Stn. (DNR/NTES)
(xxix)	COA (Control Office Application)	11 Stns. (ARA, DNR, PNBE, RJPB, FUT, MKA, KEU, JAJ, PPTA, IPR, RGD)
(xxx)	Railnet at Station from DNR	16 Stns. (DLN, BXR, ARA, DNR, PNBE, RJPB, PNC, FUT, BKP, MKA, TAL, KEU, JAJ, PPTA, IPR, TIA)
(xxx1)	Passenger Operated Enquiry Terminal (POET)	11 Stns. (BXR, ARA, DNR, PNBE, RJPB, PNC, MKA, KEU, JAJ, RGD, PPTA)
(xxxii)	RailNet	7 Stns. (BXR, DNR, PNBE, MKA, KEU, JAJ, Digha)

