North Eastern Railway

SIGNAL & TELECOM DEPARTMENT: AT A GLANCE

BG		
1	Details Of Interlocking	No. of station
1.1	RRI	1(GD)
1.2	Electronic Interlocking	37[16(ASH-STP-MLN-**MEDHA** MAKE) +19(TRE,TKUR,PSN,RMAR ,BVN,SYU,MMB,PPE,TSF,SDAM,BUW,NTV,BNZ,GTNR, GKC,GDK,MIR,CLJ,DMG,GKP -**KYOSAN** MAKE)+ 01 JEA (**WESTRACE**)]
1.3	Panel Interlocking with Domino Panel	52(JTB-BRCK,GHT-CKG,BUR-JBR,LJN, KEA, MIM-ANDN-LIR-,BMJ -BNY-SUBR,GADM-BRK)
1.4	Panel Interlocking with Conventional (GKC)Panel	02 (SUJ & JLD)
	Total stations	92

BG			
1.6	**Routes**	**No. of station**	**Detail**
1.6.1	Stations having more than 400 routes	2 Stations	GKP(503) & GD(707)
1.6.2	Stations having more than 200 routes	2 Stations	GKC (247) & STP(283)
1.6.3	Stations having more than 100 routes & less than 200 routes	7 Stations	MLN(110),JEA(118),LJN(130), ASH(150),BUW(155), GTNR(160),GDK(127)
1.6.4	Stations having more than 50 routes & less than 100 routes	9 Stations	SWA(68),BST(91),MUR(84),CLJ(66),DAL(66), BVN(54), ANDN(90),NTV(58) & SUBR (68)
1.6.4	Stations having less than 50 routes	72 Stations	DMG-JTB,MHH-ORW,GOVR-LKNR,JLHO-BRCK,TRE-KEA,MIR,SUJ-CKG,BUR-JBR,BNZ-LC,MBP-KB,HA-BNKJ,TKUR-RMAR,SYU-SDAM,MIM-CM,LIR,BMJ-ITE,GADM-BRK,
	Total stations	92 Stations	

North Eastern Railway

2.1	Provision of Axle counter for Block Proving	**97 Block Sections** [28 Set SSDAC(GGTronics make) + 14 Set SSDAC(CEL make) +63 Set HASSDAC (GGTronics make)) +54 Set HASSDAC(CEL make)+ 400 DP Frausher make MSDAC+ 27 DP SIGMA Make MSDAC]
2.2	Provision of Axle counter for Track circuit	**50 Track Circuits** [04 Set GGtronics make + 12 Set CEL make + 01 Set HASSDAC CEL make + 04 Set HASSDAC Ggtronics make +15 DP MSDAC CEL make + 53 DP MSDAC MEDHA make]

3	Provision of IPS	92 **Stations**(Amaraja Make-61 nos., Statcon Make- 21 nos., HBL Make-32 nos.+ Electric Industries-01+ StatconEnergia -07 no.) 10 IBS(8 HBL Make+ 2 Statcon) + 25 **LC Gate** (4 HBL+15 Statcon+4 Amar Raja+2 Statcon Energia)+ 14 **Auto Hut**(Statcon Energia)
4	Provision of Data logger	92 **Stations**(Efftronics Make)+10 **IBS**+RTU at 66 **LC Gate**+16 nos. at **End cabins**+14 nos **Auto Hut**
5	Provision of UFSBI	Total 88 **Block Section** 69 Block Section(Deltron Make) + 10 Block Section(Webfil make)+07 Efftronics make+2 Block Section(Webfil & Deltron) make)]
6	Total no of IBS	10 IBS

North Eastern Railway

SIGNALLING ARRANGEMENTS AT STATIONS

SN.	Details	No. of Stations	
		BG	MG
1.	Central Panel with CLS	92	0
2.	End Panel with CLS	0	0
3.	CLS with End Cabins	0	0
4.	L/Q Semaphore (Rod Operated)	0	0
5.	L/Q Semaphore (Wire Operated)	0	14
	Total No. of Block Stations	**92**	**14**

INTERLOCKLING ARRANGEMENTS AT STATIONS

SN.	Details	No. of Stations		
		BG	MG	BG/MG
1.	Interlocked to Standard III	22	-	
2.	Interlocked to Std. I with Std.III Equipment	02	04	
3.	Interlocked to Std. II/II R	66	-	02
4.	Interlocked to Standard I	-	-	
5.	Modified Non Interlocked (MNI)	-	10	
6.	Non Interlocked station	-	01	
	Total	90	15	02

BLOCK WORKING

Block Operation	BG	MG
Token Block Instruments	0	15*
Tokenless Block Instruments (Diado)	4	0
SGE Block Instruments	19	0
BPAC with UFSBI (Single Line)	47	0
BPAC with UFSBI (Double Line)	10	0
SSBPAC with UFSBI (Single Line)	0	0
SSBPAC with UFSBI (Double Line)	8	0
EI inbuilt Block Instruments in VDU	0	0
One Train only system	0	1$
Continuous Track Circuit	5@	0
Automatic Block Signalling	9#	0
TOTAL	**102**	**16**

Note- *Mailani – Bahraich : 15 Block section , $ NNP-NPR
@ LJN-ASH-LC-DAL & DMG-GKP-GKC (Twin Single line)
# DMG – BST

North Eastern Railway

CLASS OF STATION

S.No.	Details	No. of Stations		
		BG	MG	MG/BG
1.	Class 'A'	-	-	-
2.	Class 'B'	90	14	2
3.	Class 'C'	-	-	-
4.	Class 'Spl'	-	01	-
	Total	90	15	2

LEVEL CROSSING GATES(Class wise)

Class	Interlocking of LC Gates	Provision of Sliding Booms	Provision of Electric Lifting Booms
	LJN	LJN	LJN
Spl	**81**	**76**	**68**
A	**39**	**36**	**32**
B1	**14**	**13**	**10**
B 2	**24**	**21**	**20**
B	**05**	**05**	**05**
C	**63**	**60**	**59**
TOTAL	**226**	**211**	**194**

LEVEL CROSSING GATES(Detail)

Interlocked LC gate in Division : 226 nos		**BG**	**MG**	**BG/MG**
Traffic	**123**	**119**	**03**	**01**
Engg	**103**	**99**	**04**	**-**
Mechanical Lifting Barrier provided on: 32				
Traffic	**11**	**8**	**3**	**-**
Engg	**21**	**17**	**4**	**-**
Electric Lifting Barrier provided on: 194				
Traffic	**112**	**111**	**-**	**1**
Engg	**82**	**82**	**-**	**-**
Slide Boom Barrier provided on :211				
Traffic	**118**	**117**	**-**	**1**
Engg	**93**	**93**	**-**	**-**

North Eastern Railway

TYPE OF INTERLOCKING

Type of Interlocking		BG	MG
		LJN	LJN
RRI	M to M	1	0
PI	M to C	52	0
EI	MEDHA	16	0
	KYOSAN	20	0
	SIEMENS(WESTRACE)	01	0
	TOTAL	37	0
Station with SWS make old Conventional Panel		2	0
L/Q Semaphore (Wire Operated)		0	14
Total Station		92	14

North Eastern Railway

Signalling Installation (BG)				
Section/Station	**No. of stations**	**Standard of Interlocking**	**EI/PI/RRI/ Lever frame**	**Signalling**
Single Line				
Nakha Jangle	1	Std-IIR	EI	Multiple Aspect Colour Light
Maniram-Camperganj	3	Std.-III	PI	
Laxmipur	1	Std.-III	PI	
Nautanva	1	Std-IIR	EI	
Anandnagar-Barhny –Subhagpur	16	Std.-IIR	PI	
Gangadham -Bahraich	6	Std.-IIR	PI	
Tikri	1	Std.-IIR	EI	
Katra	1	Std.-III	PI	
Lucknow	1	Std I	PI	
Mohibullapur-Khairabad Avadh	6	Std.-IIR	EI	
Hargaon - Mailani	6	Std.-IIR	EI	
Double Line				
Gorakhpur Cantt	1	Std-II	EI	Multiple Aspect Colour Light
Gorakhpur	1	Std.-I	EI	
Domingarh	1	Std-II	EI	
Jagatbela – Govindnagar	9	Std-II	PI	
Tinich – Mankapur - Baruachak	11	Std-III	PI	
Gonda	1	Std-IIR	RRI	
Gonda Kachheri – Colonalganj	3	Std-II	EI	
Sarju – Chaowkaghat	4	Std-III	PI	
Burwal	1	Std-II	EI	
Bindaura – Jahagirabad Raj	2	Std-III	PI	
Gomtinagar – Daliganj	3	Std II	EI	
Lucknow City	1	Std IIR	EI	
Aishbagh	1	Std II	EI	
Sitapur Jn.	01	Std II	EI	
Tappa Khajuria – Ramaipur	03	Std.-IIR	EI	
Biswan-Sudhiamau	06	Std-II	EI	

North Eastern Railway

Nature of Block Working (BG)			
Block working	**No of Section**	**Block working**	**No of Section**
Token less block instruments		**BPAC With UFSBI**	
Gorakhpur – Nakha Jangle	1	Gorakhpur Cant – Kusumi (Double line)	1
Katra – Ayodhya	1	Gorakhpur Cant – Kusumi (Third Line)	1
Anandnagar – Brijmanganj	1	Gorakhpur Cant – Unaula	1
Parsa – Barhni	1	Nakha Jagle – Nautanwa	6
Lock & Block		Brijmanganj – Parsa	5
Goivndnagar – Gonda Kachhri	13	Barhni – Gonda	9
Colonalganj – Chaowkaghat	4	Gonda – Bahraich	6
Bindaura – Jhagerabadraj - Barabanki	2	Mankapur – Katra	2
IBS		Gonda Kachhari-Maijapur (Double line)	1
Goivndnagar – Tinich	1	Gonda Kachhari-Maijapur (Third line)	1
Tinich - Gaur	1	Maijapur - Colonalganj (Double Line)	1
Baruwachak – Gonda	1	Maijapur - Colonalganj (Third Line)	1
Gonda Kachhari – Maijapur	1	Chaukaghat – Burwal – Binduara	2
Maijapur – Colonalganj	1	Malhaur – Gomtinagar – Badshahnagar – Daliganj	3
Sarju – Jarwal Road	1	Lucknow Jn. - Manaknagar	1
Burwal – Bindaura	1	Aishabagh - Manaknagar	1
Jahagirabad – Barabanki	1	Daliganj – Sitapur – Mailani	13
IB SKLP	1	Sitapur - Burhwal	10
IB PBPR	1		

North Eastern Railway

II. TELECOMMUNICATION:

1. Section Control = 3 Boards

LJN – GD & BUW - STP
GD– GKC&MUR-AY
GD–GKP (Loop),GD–NNP,MLN–NNP & DAL – STP - MLN

2. 6 Quad Cable = 1133.61 R/Km

(GD-GKC)	153.10 Km
(LJN-GD)	126.00 Km
(SCC-BUW)	96.46 Km
(KEA-MUR-AY)	44.94 Km
(DAL-STP)	86.00 Km
(STP-MLN)	99.31 Km
(GKP-ANDN-NTV)	81.93 Km
(ANDN-BNY-BLP)	140.55 Km
(BLP-GD)	39.44 Km
(MLN-NNP)	170.20 Km
(GD-NNP)	95.66 Km

3. Optical fiber section and stations = 96 station
977.00 Km

GD-GKC	153.10
LJN-GD	126.00
SCC-BUW	96.46
KEA-MUR-AY	44.94
DAL-STP	86.00
STP-MLN	99.31
GKP-ANDN-NTV	81.93
ANDN-BNY-BLP	140.55
MLN-NNP	170.20
GD-NNP	95.66
BLP-GD	39.44

North Eastern Railway
Lucknow Division

III. PASSENGER AMENITIES:

1. **Non Railhead Locations(only PRS) = 6 Locations**
2. **PRS = 38 Stations**
3. **UTS = 107 Station**
4. **P.A. System provided at Rly. Stations = 107 Station**
5. **Digital Clocks = 107 Stations**
6. **Auto Announcement system = 40 Station**
   (LJN, GKP,BST,GD,KLD,BNZ,ASH,MUR,STP,GKC,BV,CLJ,BUW, DAL, LC,BVN,MMB,ANDN,NTV,SDDN,SOT,BNY,TLR,DMG,SWA,KEA, BLP,GTNR,MHH,BV,SNC,RMBG,BKT,AA,KMP,LMP,PD,GK,BNKJ, MLN)
7. **Train Display Board LED Type = 32 Station**
   (LJN,GKP,BST,GD,MHHKLD,BNZ,ASH,MUR, STP,GKC, BV,SWA,CLJ,BUW,DAL, LC,BVN,MMB,ANDN,NTV,SDDN,SOT,BNY,TLR,DMG, BLP,SNC,GTNR,LMP,GK,MLN,)

8. **Single Line Double Face Train Indication Board= 30 Stations**
   (LJN,GKC,GKP,BST,GD,KLD,BNZ,ASH,MUR,STP,,DAL,LC,SDDN,BLP,ANDN,TLR,BNY, RMBG, GTNR,BKT,AA,KMP,LMP,PD,GK,BNKJ, MLN,SNC, MHH, BV)
9. **Train Indication Board (Five Lines) = 13 Stations**
   LJN, GKP, GD, ASH, DAL, LC, MLN, LMP,GTNR, BLP,TLR,BNY,SDDN
10. **Connectivity provided for NTES = 11 Station**
11. **Coach Guidance System = 19 Station LJN, GKP, KLD, BST, MUR, GD, BNZ, ASH, LC, STP,SDDN,SNC,GK,MLN,LMP,BLP,KEA,TLR,BNY**
12. **Free WI-FI at Station = 92 Station**
13. **Passenger Operated Enquiry Terminal (POET) = 09 Station**
    LJN, GKP,GD, BNZ, MUR,GKC,LC,BNY & GTNR
14. **WI-FI at Administrative buildings = 01 (DRM Office/LJN)**
15. **Integrated Security System = 02 Station LJN & GKP**
16. VSS **at stations = 06 Station KLD, BST, MUR, GD, BNZ & STP**

North EasternRailway

Lucknow Division

17. CCTV Control Room LJN, GKP & DRM/OFFICE/LJN	**=**	**03 Nos.**
18. CCTV at RPF Post	**=**	**27 Stations**
19. Video Wall LJN & GKP	**=**	**02 Stations**
20. Digital Museum LJN & GKP	**=**	**02 Stations**
21. Electronic Exchange	**=**	**09 Nos.**

DRM/OFFICE/LJN, B.BAGH, LJN, ASH, BNZ, GD, STP & MLN, GTNR