

## SIGNAL & TELECOM

### [A] ESTABLISHMENT:

S N	Items	Sanctioned Strength	Man on Roll	Vacant position	Percentage vacancies
1	Group "A" / "B"	6	6	0	00.00%
2	Group "C"				
2.1	Supervisors	117	99	18	15.38%
2.2	Artisans	484	423	61	12.60%
2.3	Other Categories	14	13	1	7.14%
3.0	Group "D"	380	254	126	33.15%
	<b>Total</b>	<b>995</b>	<b>789</b>	<b>206</b>	<b>20.70%</b>

### [B] Infrastructure / Assets

#### I. WORK LOAD : As on 31.03.23\*

- Total Signal Lever Unit = 396119.40
- Total Telecom Lever Unit = 291250.75
- Total Lever unit = 687370.15**

\*Lever unit calculated at the end of each financial year

#### II. SIGNAL :

1. Total no. of BG Stations - = 115 Stations
2. MACLS stations with Panel Interlocking = 73 Stations
3. MACLS station with Route Relay Interlocking = 04 Stations
4. MACLS stations with Electronic Interlocking = 38 Stations
5. IBS = 15 Block sec.
6. Block Instruments
  - ❖ Lock & Block Instrument (D.L.) = 44 Pairs
  - ❖ Daido type token less Block Instruments (S.L.) = 27 Pairs
  - ❖ Block panel in EI – VDU = 01 Block sec.
  - ❖ SSBPAC (S/L) = 01 Pair
  - ❖ SSBPAC (D/L) = 05 Pair
  - ❖ Universal Fail Safe Block Interface (S/L) = 33 Pairs
  - ❖ Universal Fail Safe Block Interface (D/L) = 10 Pairs
  - ❖ Universal Fail Safe Block Interface (IBS) = 08 Pairs
7. Points Machine -
  - ❖ High Voltage (IRS Rotary) = 1485 Nos.
  - ❖ High Thrust (TWS) = 274 Nos.

8. LED lit Signals	=	115 Stations
9. Integrated Power Supply	=	115 Stations
10. Axle counters (For Block working)	=	219 Pairs
11. Axle counters (For Track circuiting)	=	33 Nos.
12. MSDAC (For point zone track circuiting)	=	19 Nos.

### III. TELECOMMUNICATION:

1. **Section Control** = 5 Boards

ARJ – BTT & MAU – SHG & ARJ – JNU	GKC – CHPG – Main
GKC – PYNA – THE & CPR – MHC – SV	ARJ – BSB – PRRB
ARJ – CPR & IAA – PEP	

2. **6 Quad Cable** = 1192.50R/Km

82.84	(GKC – PNYA)	91.00	(THE – CI)
62.00	(ARJ – JNU)	181.00	(GKC – CHPG)
160.00	(ARJ – BSB – PRRB)	171.00	(ARJ – CPR)
100.00	(MAU – SHG)	50.86	(IAA – PEP)
28.00	(SV – THE)	125.00	(ARJ – BTT)
98.80	(CPJ – THE)	42.00	(DDA – MHC)

3. **Optical fiber section and stations** = 120 station (1287.94 Km)

23 No. (GKP – CHPG)	181.0 Km	22 No. (ARJ – CPR)	171.00Km
09 No. (GKP – PNYA)	82.84 Km	03 No. (ARJ – JNU)	66.14 Km
12 No. (CPJ – THE)	98.80 Km	05 No. (CI – MHC)	41.72 Km
04No. (SV – THE)	28.00 Km	05 No. (IAA – PEP)	50.86 Km
18 No. (BSB – BTT)	160.0 Km	07 No. (MHC – THE)	78.00 Km
10 No. (MAU – SHG)	100.0 Km	03 No. (DDA – MHC)	42.00 Km
17 No. (BSB – PRRB)	125.0 Km	01 No. (SRU – BHJ)	41.25 Km

### IV. PASSENGER AMENITIES:

- |                                    |   |                         |
|------------------------------------|---|-------------------------|
| 1. PRS                             | = | 43 (36 + 7 Post office) |
| 2. Unified                         | = | 29 Stations             |
| 3. UTS                             | = | 115 Stations            |
| 4. Digital Clocks                  | = | 84 Stations             |
| 5. PA Systems provided at Stations | = | 104 Stations            |

**6. Auto Announcement system = 52 Stations**

PRRB	YFP	BLTR	CI	GOPG	PPC	CBN
GYN	MHO	LRD	CHPG	THE	CPJ	PEP
BSBS	SDT	SRU	MHC	DEOS	GH	BUI
BCY	JKN	RSR	RPV	BTT	SBZ	SIP
SRNT	DLR	AMH	DWDI	BHTR	POU	
ARJ	PPH	KRND	SQW	MW	TOI	
NDJ	MAU	EM	RTU	SV	TRJ	
GCT	IAA	CPR	DDA	MJV	HTW	

**7. Coach Guidance System = 10 Stations**

BSBS	DEOS	MAU	BUI	CPR	SV	BCY	GCT	AMH	BLTR
BTT									

**8. Train Display Board = 38 Stations**

PRRB	MHO	SV	MW	BHTR	BTT	CPJ
ARJ	GCT	YFP	BUI	SIP	AMH	CBN
CPR	SBZ	RSR	DLR	JKN	SDT	
NDJ	GH	PPC	EM	DDA	SRNT	
KRND	GYN	MBS	BSBS	BCY	SRU	
PEP	MAU	IAA	BLTR	LRD	DEOS	

**9. Train Indication Board (Five Lines) = 12 Stations**

BSBS	BCY	SRNT	GCT	DEOS	MAU	BUI
CPR	SV	NDJ	BLTR	AMH		

**10. Single Line Double Face Train Indication Board = 13 Stations**

BSBS	BCY	SRNT	GCT	DEOS	MAU	BUI
CPR	SV	MHO	PPH	BLTR	AMH	

**11. Video Wall & 10 Line Train Display Board = Banaras station**

**12. On Line Train Reservation Charting Display Board = CPR & BSBS**

**13. Connectivity provided for NTES = 08 Nos.**

Commercial Control	MAU	BSBS	DEOS	SV	
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- |                   |     |     |  |  |  |
|-------------------|-----|-----|--|--|--|
| Operating Control | BUI | CPR |  |  |  |
|-------------------|-----|-----|--|--|--|
14. **Coach Guidance System** = 10 Stations
- |      |      |     |     |     |    |     |     |     |      |
|------|------|-----|-----|-----|----|-----|-----|-----|------|
| BSBS | DEOS | MAU | BUI | CPR | SV | BCY | GCT | AMH | BLTR |
|------|------|-----|-----|-----|----|-----|-----|-----|------|
15. **Free WI-FI at Station** = 115 Stations
16. **Passenger Operated Enquiry Terminal (POET)** = 14 Stations
- |     |     |      |     |     |      |      |
|-----|-----|------|-----|-----|------|------|
| CPR | SRU | BLTR | MAU | AMH | DEOS | BTT  |
| SV  | MW  | BSBS | BUI | GCT | SIP  | KRND |
17. **CCTV at stations** = 11 Stations
- |     |      |      |      |     |      |    |
|-----|------|------|------|-----|------|----|
| CPR | PRRB | GCT  | BSBS | BCY | DEOS | SV |
| MAU | AMH  | BLTR | BUI  |     |      |    |
18. **CCTV at Administrative buildings** = Divisional hospital & DRM's office
19. **CCTV at DEMU Shed** = Aunrihar DEMU shed
20. **CCTV at Diesel Lobby** = Chhapra Jn.
21. **CCTV Control Room** = DRM's Office
22. **WI-FI at Administrative buildings** = Divisional hospital & DRM's office
23. **Integrated Security System** = CPR Station
24. **Digital Museum** = 04 Stations
- |     |     |     |     |  |  |  |
|-----|-----|-----|-----|--|--|--|
| AMH | MAU | CPR | BUI |  |  |  |
|-----|-----|-----|-----|--|--|--|

## Signal And Telecom Information

As on 31.03.2023

<b>Signalling Installation</b>				
<b>Section/Station</b>	<b>No. of stations</b>	<b>Standard of Interlocking</b>	<b>EI/PI/RRI/Lever frame</b>	<b>Signalling</b>
<b>Single Line – 49 stations (1 EI + 48 PI)</b>				
Prayagraj Rambagh	1	Std.-I(R)	PI	Multiple Aspect Colour Light
Daraganj,	1	Std.-II(R)	EI	
Ratanpura (1), Thawe – Khaira (12), Mahpur, Jakhania, Dullahpur, Belthra road, Salempur, Didarganj – Khurhat (5),	23		PI	
Sadat, Piparidih, Mau Jn, Lar road,	4	Std.-III	PI	
Unaula – Paniyahwa, Laxmiganj – Thawe (ex)	18			
Hathua – Amlori Sarsar	2			
<b>Double Line - 66 stations (37 EI + 25 PI+4 RRI)</b>				
Chhpara Jn.	1	Std.-I	RRI	Multiple Aspect Colour Light
Banaras	1	Std.-II(R)	RRI	
Hardatpur – Jhunsi	11	Std.-II(R)	EI	
Saiydpur bhitri – Gautamsthan	16			
Rasra, Chikahar,	2			
Dobhi, Kerakat & Muftiganj	3			
Indara Jn - Kirihirapur	2			
Sathiaon - Phariha	3	Std.-II(R)	PI	
Varanasi(ex.)–Aunrihar	5			
Chhpara Gramin	1	Std.-III	PI	
Kusumhi-Chhapra Ky.	19		RRI	
Bhatni Jn and Siwan Jn.	2		RRI	

As on 31.03.2023

<b>Nature of Block working / Media circuits</b>			
<b>Block working</b>	<b>No of Pairs</b>	<b>Media circuits</b>	<b>No of Pairs</b>
<b>Push Button Token less block instruments</b>	<b>2</b>	<b>Control Alignment (Railway)</b>	
Ratanpura – Chilkahar	2	<b>OFC</b>	
<b>Diado type Token less block instruments</b>	<b>27</b>	Gorakhpur Cantt. – Paniyahwa	9
Unaula – Valmiki Nagar	8	Jaunpur – Aunirhar – Chhapra	26
Muftiganj – Jaunpur	1	Mau – Shahganj	10
Siwan – Thawe	3	Gorakhpur – Chhapra Gramin	23
Kaptangaj – Thawe	11	Siwan – Thawe – Kaptanganj	16
Chhapra kucheheri – Khaira	1	Varanasi – Bhatni	18
Chhapra gramini – Khaira	1	Varanasi – Prayagraj	16
Chhapra – Gautamsthan	1	Chhapra Ky. – Thawe	12
Indara – Ratanpura	1	Indara – Phephna	4
<b>UFSBI in Single line</b>	<b>33</b>	Masrakh – Duraundha	1
Mau – Indara (Twin Single Line)	2	<b>Quad Cable</b>	
Aunirhar – Bhatni	9	Gorakhpur Cantt. – Paniyahwa	9
Sahatwar – Gautam Sthan	1	Varanasi – Bhatni	18
Mau – Shahganj	8	Mau – Shahganj	10
Prayagraj Rambagh – Jhunsi	2	Gorakhpur – Chhapra Gramin	23
Khaira – Thawe	11	Siwan – Thawe – Kaptanganj	16
<b>UFSBI in Double line</b>	<b>7</b>	Jaunpur – Aunirhar – Chhapra	26
Gautamsthan – Gazipur city	9	Varanasi – Prayagraj	16
Aunirhar – Dobhi	1	Chhapra Ky. – Thawe	12
<b>SSBPAC (Double line)</b>	<b>5</b>	Indara – Phephna	4
Phephna – Rasra	2	Masrakh – Duraundha	3
Indara -Kirihipur	1	Hathua – Bathua	2
Sathiaon - Phariha	2	Salempur – Barahajbazar	1
<b>SSBPAC (Single line)</b>	<b>1</b>	<b>Electronic Exchange</b>	8
Banaras – Lohta (NR)	1	Prayagraj Rambagh, Varanasi, Ballia, Chhapra, Siwan, Bhatni, Mau and Deoria Sadar	8
<b>UFSBI in IBS in Double line</b>	<b>8</b>		
<b>Double Line Block Instrument</b>	<b>45</b>		
Kusumhi – Chhapra Gramin	22	<b>NTES</b>	<b>8</b>
Varanasi (NR) – Gazipur city	10	2 Control/Varanasi, Chhapra, Deoria Sadar, Banaras, Siwan, Mau Jn. and Ballia	8
Varanasi (NR) – Jhunsi	12		
Ballia – Phephna	1		
<b>In built block instt. in EI VDU</b>	<b>1</b>		
Bhiti – Handiakhas	1		

<b>Block working</b>	<b>No of Pairs</b>	<b>Media circuits</b>	<b>No of Pairs</b>
<b>Continuous Track Circuit</b>	<b>2</b>	<b>EI Based IBS</b>	<b>11</b>
Chhapra – Chhapra Kachery	1	Ballia – Phephna (SVI IBS)	1
Prayagraj Rambagh – Prayagraj Jn.	1	Madhosingh – Gyanpur (AHM IBS)	1
<b>PI Based IBS</b>	<b>4</b>	<b>Aunrihar – Dobhi (DDNA IBS)</b>	<b>1</b>
Noonkhar – Deoria Sadar	1	Gyanpur road – Bhati (JGG IBS)	1
Bhatni – Bhatpar Rani	1	Chitbadagaon – Karimuddinpur (TJD IBS)	1
Mairwa – Zeeradei	1		
Siwan – Zeeradei	1	Dhondhadih ( DDD) IBS	1
		Saidabad IBS	1
		Shahbajkuli (SBK)	1
		Yadvendra Nagar (YDV) IBS	1
		Reoti (ROI) IBS	1
		<b>Total IBS (EI + PI)</b>	<b>11</b>

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