

# North Eastern Railway

## S & T Department

AS ON 30.11.2020

**1.0 INFRASTRUCTURE:** The important statistics/details regarding S&T installations spread over Izzatnagar; Lucknow and Varanasi divisions are as under:

**1.1 INFRASTRUCTURE - SIGNALLING :**

**1.1.1 ROUTE DETAILS ON NER**

Div./ Route	IZN		LJN		BSB		Total	
	Stns.	Route Km.	Stns.	Route Km.	Stns.	Route Km.	Stns.	Route Km.
<b>A</b>	-	-	-	-	-	-	-	-
<b>B</b>	-	-	-	-	-	-	-	-
<b>C</b>	-	-	-	-	-	-	-	-
<b>D'Spl'</b>	0	0	34	245	23	182	57	427
<b>D</b>	0		17	160	77	800	94	960
<b>E</b>	82	907	40	517	22	290	144	1714
<b>Total (BG)</b>	<b>82</b>	<b>907</b>	<b>91</b>	<b>922</b>	<b>122</b>	<b>1272</b>	<b>295</b>	<b>3101</b>
<b>Total (MG)</b>	<b>5</b>	<b>111</b>	<b>14</b>	<b>225</b>	<b>0</b>	<b>35</b>	<b>19*</b>	<b>371</b>
<b>G.Total</b>	<b>87</b>	<b>1018</b>	<b>105</b>	<b>1147</b>	<b>122</b>	<b>1307</b>	<b>314</b>	<b>3472</b>
<b>* All 19 stations are presently closed.</b>								

**1.1.2 STANDARD OF INTERLOCKING :**

Standard of Interlocking		IZN	LJN	BSB	Total
Std. II (R)	BG	75	89	120	284
	MG	-	-	-	0
Std. I (R)	BG	7	2	2	11
	MG	5	4	-	9*
MNI	BG	-	-	-	0
	MG	-	10		10*
<b>TOTAL</b>	<b>BG</b>	<b>82</b>	<b>91</b>	<b>122</b>	<b>295</b>
	<b>MG</b>	<b>5</b>	<b>14</b>	<b>0</b>	<b>19*</b>
<b>GRAND TOTAL</b>		<b>87</b>	<b>105</b>	<b>122</b>	<b>314</b>

**\* All 19 stations in MG are presently closed.**

### 1.1.3 SIGNALLING ARRANGEMENTS AT STATIONS :

Signalling at Stations		IZN	LJN	BSB	Total
Central Panel with CLS	BG	81	91	112	284
	MG	5	-	-	5
End Panels with CLS	BG	-	-	10	10
	MG	-	-	-	0
L/Q Semaphore	BG	1*	-	-	1
	MG	-	14	-	14
TOTAL	BG	82	91	122	295
	MG	5	14	0	19
GRAND TOTAL		87	105	122	314

\* Ramnagar station sanctioned for EI (under Railway Electrification).

### 1.1.4 BLOCK OPERATION :

Block Operation	Gauge	IZN	LJN	BSB	Total
Automatic Block Signalling	BG	-	-	-	-
CTC	BG	-	-	-	-
IBS	BG	-	10	4	14
S/L Tokenless B/I with BPAC	BG	13	35	37	85
S/L Tokenless B/I without BPAC	BG	-	2	1	3
D/L SGE B/I with BPAC	BG	-	23	32	55
Twin Single Line with Continuous track circuit (GKC-GKP-DMG)	BG	-	2	-	2
BPAC with USFBI	BG	65	22	54	141
SSBPAC with UFSBI	BG	-	-	1	1
Continuous Track Circuit	BG	1	4	2	7
S/L Token B/I	BG	7	-	-	7
	MG	7	15	-	22
One Train only system	BG	-	-	2	2
	MG	-	1	1	2
TOTAL	BG	86	98	133	317
	MG	7	16	1	24
GRAND TOTAL		93	114	134	341

### 1.1.5 TYPE OF INTERLOCKING (BG) :

Type of Interlocking	IZN	LJN	BSB	Total
EI	5	16	15	36
PI	75	74	103	252
RRI	1	1	4	6
Mechanical	1	-	-	1*
<b>GRAND TOTAL</b>	<b>82</b>	<b>91</b>	<b>122</b>	<b>295</b>

\* Ramnagar station sanctioned for EI (under Railway Electrification).

### 1.1.6 OTHER SIGNALLING EQUIPMENTS (BG) :

Div.	Station	Data Logger	IPS	AFDAS	ELD	LED signals
IZN	82	81	81	28	81	81
LJN	91	91	91	33	91	91
BSB	122	121	122	22	76	122
<b>Total</b>	<b>295</b>	<b>293</b>	<b>294</b>	<b>64</b>	<b>239</b>	<b>294</b>

### 1.1.7 LEVEL CROSSING GATES :

Class	Total Gates (Manned)	Telephone Provided	Interlocking Provided	Lifting Barrier provided
Special	168	168	168	168
A Class	115	115	115	115
B1 Class	38	38	38	38
B2 Class	153	153	152	153
C Class	836	836	327	832
<b>Total</b>	<b>1310</b>	<b>1310</b>	<b>800</b>	<b>1306</b>

## 1.2 INFRASTRUCTURE – SIGNAL WORKSHOP

Signal Workshop, Gorakhpur Cantt. is headed by Chief Workshop Manager, assisted by 2 Gazetted and 584 Non-Gazetted staff.

### 1.2.1 Product Lines of Signal Workshop :

- IRS type Electric Point Machine (143 mm stroke)
- IRS type High Thrust Electric Point Machine (220 mm stroke)
- Q series relays (QN1-12F4B & 8F8B, QNA1-12F4B & 8F8B, QECX-61 & QT2-2F2B)
- Lifting Barriers (MLB & ELB)
- Location Boxes and Battery Chargers etc.

## 1.3 INFRASTRUCTURE – S & T TRAINING CENTRE

The Centre is headed by a Principal (JS) with 6 instructors in the faculty.

- The Centre traces its origin to a modest Artisan training school in 1959 in the premises of Signal Workshop, Gorakhpur Cantt. and later on shifted to its present location in 1975.
- Hostel accommodation is available for 50 trainees.

### Courses Conducted:

1.	Refresher Course for Signal Maintainers & Tele. Maintainers	(18 Days)
2.	Initial course for App. ESM Gr-III	(102 Days)
3.	Initial course for App. ESM Gr –II	(150 Days)
4.	Initial course for App.TCM/WTM Gr- III	(102 Days)
5.	Foundation course for Promotee Signal Maintainer	(72 Days)
6.	Foundation courses for Promotee TCM-III/WTM-III	(72 Days)
7.	Induction to unskilled (Kh.)	(12 Days)
8.	Promotional courses for Sig/Tele Maintainer to JE Sig./ Tele.	(36 Days)
9.	Equipment courses for Supervisors and Artisan staff	(6 Days)
10.	Computer Application courses for Supervisors and Ministerial staff	(6 Days)