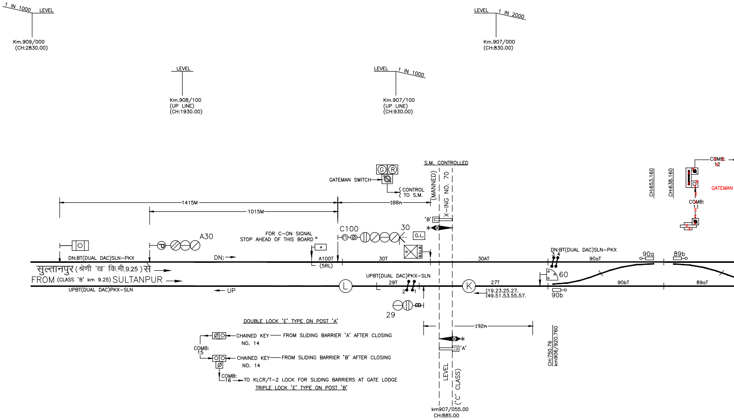
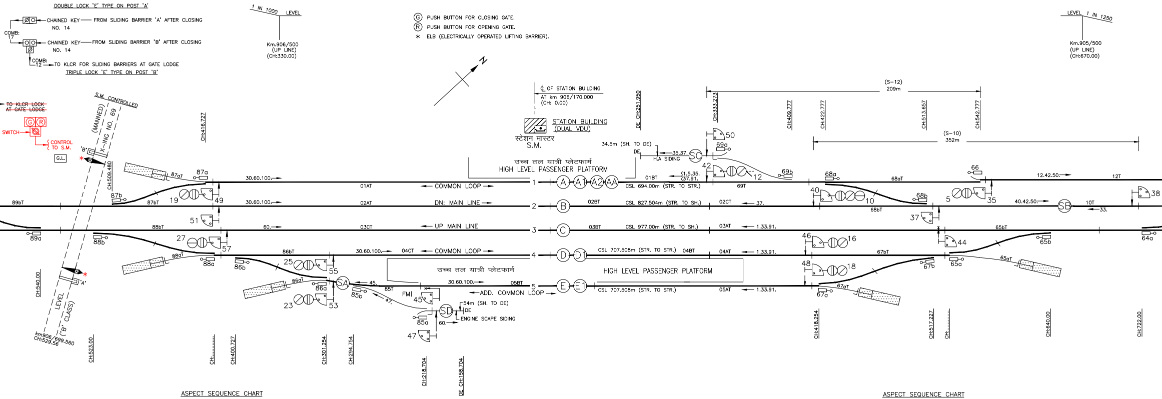

1 IN 1000 LEVEL
Km.909/000
(CH:2830.00)
LEVEL 1 IN 2000
Km.907/000
(CH:830.00)
LEVEL
Km.908/100
(UP LINE)
(CH:1930.00)
LEVEL 1 IN 1000
Km.907/100
(UP LINE)
(CH:930.00)
S.M. CONTROLLED
(MANNED)
X-ING NO. 70
GATEMAN SWITCH
CONTROL TO S.M.
1415M
1015M
188m
'B'
C100
30
G.L.
A30
FOR C-ON SIGNAL
STOP AHEAD OF THIS BOARD *
*
B.S.L.B.
DN:BT(DUAL DAC)SLN-PKX
DN:
A100T
(5RL)
30T
30AT
सुल्तानपुर (श्रेणी 'ख' कि.मी.9.25) से
FROM (CLASS 'B' km 9.25) SULTANPUR
UPBT(DUAL DAC)PKX-SLN
UP
L
UPBT(DUAL DAC)PKX-SLN
29T
2 1
29
K
27T
19.23.25.27.
49.51.53.55.57.
DN:BT(DUAL DAC)SLN-PKX
3 4
60
90aT
90a
89b
90bT
89aT
90b
CH:653.160
CH:638.160
COMB: 12
GATEMAN
COMB: 11
DOUBLE LOCK 'E' TYPE ON POST 'A'
CHAINED KEY NO. 14 — FROM SLIDING BARRIER 'A' AFTER CLOSING
COMB: 15
CHAINED KEY NO. 14 — FROM SLIDING BARRIER 'B' AFTER CLOSING
COMB: 16 TO KLCR/T-2 LOCK FOR SLIDING BARRIERS AT GATE LODGE
TRIPLE LOCK 'E' TYPE ON POST 'B'
192m
'A'
LEVEL
('C' CLASS)
km907/055.00
CH:885.00
CH:750.76
km906/920.760

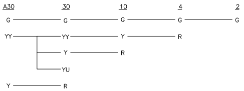
ALT 'A'	PROVISION OF ELECTRIC LIFTING BARRIER AT L-XING NO. 69. (i) NOTE NO. 17 DELETED.	Sr.DSTE/LKO VIDE LETTER NO. 256/SIG/PLAN DATED: 09.05.24			GOURAV MEENA Digitally signed by GOURAV MEENA Date: 2024.05.17 16:26:48 +05'30'		VIKAS MAKHIJA Digitally signed by VIKAS MAKHIJA Date: 2024.05.20 13:22:15 +05'30'	RITIKA KELKAR			VIJAY KUMAR PANDEY Digitally signed by VIJAY KUMAR PANDEY Date: 2024.05.21 11:00:36 +05'30'	
COMPLETION	PLAN CORRECTED AND DATE OF COMPLETION ENDORSED AS 16.01.2023 AS PER SITE VERIFIED COMPLETION COPY RECEIVED FROM DY. CSTE/C-I/LKO VIDE LETTER NO. 287-SIG/C/LKO/SLN-ZBD DATED 25.07.2023. (I) INTER SIGNAL DISTANCES CORRECTED. (II) LC-69 MADE AS MECHANICALLY OPERATED GATE. (III) BSLB SHIFTED TOWARDS SULTANPUR END. (IV) POINT MACHINE POSITION CHANGE OF POINT NO. 62b, 63a, 63b. (V) NOTE NO. 17 ADDED. (VI) THREE TRACKS PROVIDED ON LINE NO. 2, 3 & 4.	DY.CSTE/C-I/LKO LETTER NO.287-SIG/C/LKO/SLN-ZBD DATED 25.07.2023.	JITENDER Digitally signed by JITENDER Date :2023.07.31 04:52:44 +05'30'		JITENDRA KUMAR GANGVAR Digitally signed by JITENDRA KUMAR GANGVAR Date:2023.08.09 17:18:35 +05'30'	ANIL KUMAR GOD Digitally signed by ANIL KUMAR GOD Date: 2023.07.31 17:50:28 +05'30'	VIKAS MAKHIJA Digitally signed by VIKAS MAKHIJA Date:2023.10.11 12:27:22 +05'30'	RITIKA KELKAR Digitally signed by RITIKA KELKAR Date:2023.10.12 17:57:02 +05'30'	—	Sanjay Goel Digitally signed by Sanjay Goel Date:2023.08.01 11:16:53 +05'30'	Vijay Kumar Pandey Digitally signed by Vijay Kumar Pandey Date:2023.11.08 16:28:20 +05'30'	16.01.2023
ALT/C.U.TO/ COMP:	DESCRIPTION	REFERENCE	JE/C/SIG	SSE/C/D&D	SSE/D&D	AESTE/C/D&D	AESTE/D&D	ESTE/D&D	DRM/LKO	(DY.CSTE/C/D&D) FOR CSTE/C	(DY.CSTE/D&D) FOR PCSTE	COMP:

Signature Not Verified
Digitally signed by ANURAG SRIVASTAV
Date: 2026.0[illegible].16 17:07:34 IST
Reason: IREPS-CRIS
Location: New Delhi


DOUBLE LOCK 'E' TYPE ON POST 'A'
CHAINED KEY NO. 14 — FROM SLIDING BARRIER 'A' AFTER CLOSING
COMB: 17
CHAINED KEY NO. 14 — FROM SLIDING BARRIER 'B' AFTER CLOSING
COMB: 12 → TO KLCR FOR SLIDING BARRIERS AT GATE LODGE
TRIPLE LOCK 'E' TYPE ON POST 'B'
1 IN 1000 LEVEL
Km.906/500 (UP LINE) (CH:330.00)
Ⓖ PUSH BUTTON FOR CLOSING GATE.
Ⓡ PUSH BUTTON FOR OPENING GATE.
* ELB (ELECTRICALLY OPERATED LIFTING BARRIER).
N
LEVEL 1 IN 1250
Km.905/500 (UP LINE) (CH:670.00)
~~TO KLCR LOCK AT GATE LODGE~~
G R
SWITCH
CONTROL TO S.M.
G.L.
S.M. CONTROLLED
(MANNED) X-ING NO. 69
'B'
'A'
LEVEL ('B' CLASS)
km906/699.560
CH:529.56
CH:540.00
CH:523.00
CH:509.480
CH:416.727
CH:......
CH:400.727
CH:301.254
CH:294.754
CH:218.704
DE CH:158.704
℄ OF STATION BUILDING AT km 906/170.000 (CH: 0.00)
STATION BUILDING (DUAL VDU)
स्टेशन मास्टर
S.M.
DE CH:251.950
CH:333.273
CH:409.777
CH:422.777
CH:513.657
CH:542.777
(S-12) 209m
(S-10) 352m
34.5m (SH. TO DE)
DE
H.A SIDING
35.37.
SC
50
69a
42
12
69b
(1.5.35.
(37.91.
उच्च तल यात्री प्लेटफार्म
HIGH LEVEL PASSENGER PLATFORM
87aT
87a
87b
87bT
19
49
89bT
30.60.100.
01AT
COMMON LOOP
1
A A1 A2 AA
01BT
CSL 694.00m (STR. TO STR.)
69T
68a
68aT
66
12.42.50.
12T
38
30.60.100.
02AT
DN: MAIN LINE
2
B
02BT
CSL 827.504m (STR. TO SH.)
02CT
37.
40
10
68b
68bT
5
35
40.42.50.
SB
10T
33.
37
51
88bT
60.
03CT
UP MAIN LINE
3
C
03BT
CSL 977.00m (STR. TO SH.)
03AT
1.33.91.
65bT
89a
88b
27
57
46
16
44
65b
64a
88aT
88a
86bT
30.60.100.
04CT
COMMON LOOP
4
D D1
CSL 707.508m (STR. TO STR.)
04BT
04AT
1.33.91.
67bT
86b
25
55
48
18
67b
65a
65aT
उच्च तल यात्री प्लेटफार्म
HIGH LEVEL PASSENGER PLATFORM
86aT
86a
SA
45.
85T
30.60.100.
05BT
5
E E1
CSL 707.508m (STR. TO STR.)
05AT
1.33.91.
67aT
67a
23
53
85b
47.
FMI
45
ADD. COMMON LOOP
SD
54m (SH. TO DE)
DE
ENGINE SCAPE SIDING
85a
60.
47
CH:418.254
CH:517.227
CH:......
CH:640.00
CH:722.00

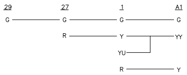
ASPECT SEQUENCE CHART

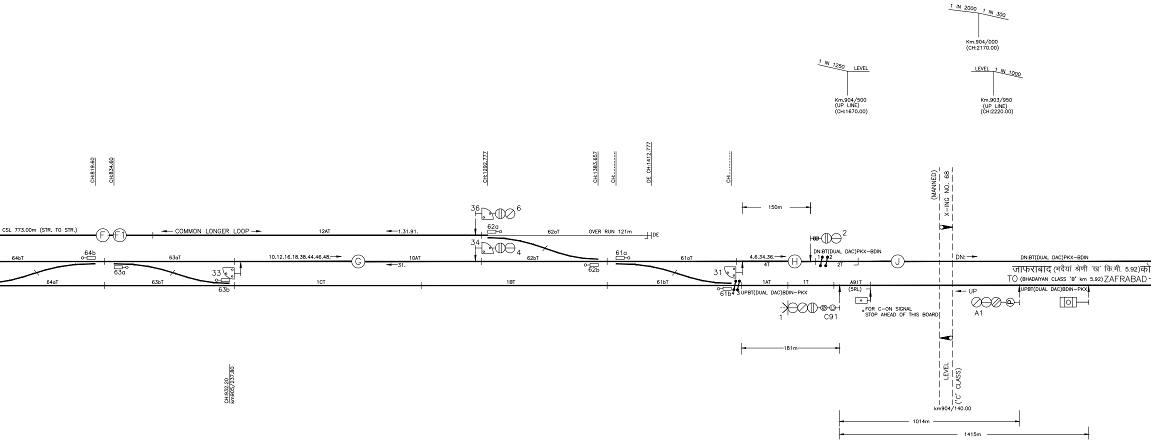
(DN: DIRECTION) →


A30
30
10
4
2
G
G
G
G
G
YY
YY
Y
R
Y
R
YU
Y
R

ASPECT SEQUENCE CHART

← (UP DIRECTION)


29
27
1
A1
G
G
G
G
R
Y
YY
YU
R
Y


1 IN 2000
1 IN 300
Km.904/000
(CH:2170.00)
1 IN 1250
LEVEL
Km.904/500
(UP LINE)
(CH:1670.00)
LEVEL
1 IN 1000
Km.903/950
(UP LINE)
(CH:2220.00)
CH:819.60
CH:834.60
CH:1292.777
CH:1383.657
CH:..........
DE CH:1412.777
CH:..........
(MANNED)
X-ING NO. 68
150m
36
6
62a
34
4
2
CSL 773.00m (STR. TO STR.)
F
F1
COMMON LONGER LOOP
12AT
1.31.91.
62aT
OVER RUN 121m
DE
64bT
64b
63aT
10.12.16.18.38.44.46.48.
G
10AT
31.
62bT
61a
61aT
4.6.34.36.
H
4T
DN:BT(DUAL DAC)PKX-BDIN
1
2
2T
J
DN:
DN:BT(DUAL DAC)PKX-BDIN
जाफराबाद (भदैयां श्रेणी 'ख' कि.मी. 5.92)को
TO (BHADAIYAN CLASS 'B' km 5.92) ZAFRABAD
63a
33
62b
31
64aT
63bT
1CT
1BT
61bT
1AT
1T
A91T
(5RL)
63b
61b
4
3
UPBT(DUAL DAC)BDIN-PKX
UP
UPBT(DUAL DAC)BDIN-PKX
1
C91
*FOR C-ON SIGNAL
STOP AHEAD OF THIS BOARD
A1
181m
CH:932.20
km905/237.80
LEVEL
('C' CLASS)
km904/140.00
1014m
1415m

उ0रे0 N.R. लखनऊ (LKO)	Sd/- 28.05.2022 वरि. मंपरिप्र./लखनऊ SR.DOM/LKO	Sd/- वरि. मंसिग.एवं दूसंइन्जी./स./लखनऊ SR.DSTE/C/LKO	Sd/- उप मुसिग.एवं दूसंइन्जी./नि.I/लखनऊ DY.CSTE/C-I/LKO	Mr Neeraj Mathur Digitally signed by Mr Neeraj Mathur Date:2022.06.13 04:01:19 +05'30' कम्पयूटरीकरण जू. इन्जी./नि./डी एण्ड डी CAD BY. JE/C/D&D

NO. OF ROUTES: 77

Case No. 256–Sig/Const./Longer Loop

Field Unit:– DY. CSTE/C–I/LKO

(470X2572)

EXTENSION OF EXISTING LOOP LINE LENGTH TO 1500m IN C/W LONGER LOOP LINE WORK

NM_13.12.2021
NM_23.12.2021
NM_28.12.2021
NM_20.01.2022
R.A_03.02.2022
R.A_10.03.2022
R.A_14.03.2022
NM_06.06.2022
NM_13.06.2022
JITEN_31.07.2023_COMPLN.
JITEN_04.08.2023_COMPLN.
R.A_Gourav_17.05.2024

NOTE:

1. THIS PLAN IS BASED ON THE APPROVED ESP NO. N.R.H.Q.E PLAN NO. LKO/25/12–2012/R1/R2/R3/R4, DATED:05.09.2019.
2. SIGNALLING INSTALLATION IS SUITABLE FOR 25KV AC TRACTION.
3. TYPE OF INTERLOCKING : CENTRALISED ELECTRONIC INTERLOCKING ALONGWITH DUAL VDU (1+1s.by) FOR OPERATION HAS BEEN PROVIDED.
4. BLOCK WORKING :

S.NO.	BLOCK SECTION	BLOCK WORKING
1.	PAKHRAULI – BHADAIYAN	DOUBLE LINE SGE TYPE BLOCK INSTRUMENT ALONGWITH DUAL SSDAC
2.	PAKHRAULI – SULTANPUR	

5. L–XING GATES IN STATION SECTION :
ALL L–XING GATES AS SHOWN IN THE PLAN IN THE STATION SECTION ARE INTERLOCKED AND TELEPHONICALLY CONNECTED WITH THE SM.
INTERLOCKED EMERGENCY KEYS (WITH CHAINED CRANK HANDLE FOR ELB) ARE KEPT LOCKED IN A SEALED GLAZED COVER BOX IN CUSTODY OF THE SM FOR EMERGENCY OPERATION OF THE L–XING GATES:
(A) L–XING NO. 69 'B' CLASS AT km 906/699.560 (CH:529.56).
(B) L–XING NO. 70 'C' CLASS AT km 907/055.00 (CH:885.00).

6. FOLLOWING NON–INTERLOCKED L–XING GATES IN THE BLOCK SECTION ARE TELEPHONICALLY CONNECTED WITH THE SM:
(A) 'C' CLASS L–XING NO. 68 AT km 904/140.00 BETWEEN PKX–BDIN SECTION.

7. TRACK CIRCUITING : DCTC HAS BEEN PROVIDED IN THE ENTIRE YARD.
8. THE FM OF CONVERGING X–OVER IN A LINE SHALL BE CONSIDERED AS THE SJ OF THE X–OVER POINT IN THE ADJACENT LINE.
9. NUMBERING OF SIGNALS & PONTS :

FUNCTIONS	DIRECTION	RANGE	SPARES
SIGNAL	UP	1–29 (ODD NUMBERS)	3.7.9.11.13.15.17.21.
	DN	02–30 (EVEN NUMBERS)	8.14.20.22.24.26.28.
SHUNT SIGNAL	UP	SH–31 TO SH–59 (ODD NUMBERS)	39.41.43.59.
	DN	SH–32 TO SH–60 (EVEN NUMBERS)	32.52.54.56.58.
POINTS	——	61–90	70.71.72.73.74.75.76.77.78.79.80.81.82.83.84.
C–ON SIGNAL	UP	91–99 (ODD NUMBERS)	93.95.97.99.
	DN	92–100 (EVEN NUMBERS)	92.94.96.98.

10. POINT CRANK HANDLES :
CRANK HANDLE FOR EACH GROUP SHALL HAVE DIFFERENT WARD WITH POINT MACHINES HAVING MATCHING SPIGOTS.
FOLLOWING CRANK HANDLE GROUP ARE PROVIDED:

GROUP	POINTS
CH01	61a/b
CH02	62a/b
CH03	63a/b.64a/b
CH04	65a/b
CH05	66
CH06	67a/b
CH07	68a/b

GROUP	POINTS
CH08	69a/b
CH09	85a/b
CH10	86a/b
CH11	87a/b
CH12	88a/b
CH13	89a/b.90a/b

ALL CRANK HANDLES ARE KEPT IN THE LOCATION BOX ONLY.

11. DESCRIPTION OF ROUTES AND OVERLAPS :

S.NO.	SIGNAL NO.	ROUTE	OVERLAP	
			POINTS(N/R)	TRACK CIRCUIT UPTO
1.	1	A & AA	87N	87aT
2.	1	A1	87R	27T
3.	1	C	––	27T
4.	1	D	88N	88aT
5.	1	D1	88R	27T
6.	1	E	86N	86aT
7.	1	E1	86R	27T
8.	1	F	66R	01AT
9.	5	A	87N	87aT
10.	5	A1	87R	27T
11.	10	G	––	4T
12.	12	F	62N	62aT
13.	12	F1	62R	4T
14.	12	G	––	4T
15.	16	G	––	4T
16.	18	G	––	4T
17.	30	A	68N.66N	68aT
18.	30	A1	68N.66R	12AT
19.	30	A2	68R.66N	10AT
20.	30	B	––	10T
21.	30	D	65N	65aT
22.	30	D1	65R.64R	10AT
23.	30	E	67N	67aT
24.	30	E1	67R.64R	10AT

12. ISOLATION :
FOLLOWING ISOLATION HAS BEEN PROVIDED FOR MAIN/C–ON SIGNALS ROUTE IN TERMS OF GR PARA 3.47, 5.16 & OTHER PROVISIONS :

S.NO.	MAIN/C–ON ROUTE	POINTS LOCKED (N/R)	MAIN SIGNAL/C–ON ROUTES LOCKED	SHUNT SIGNALS ROUTE LOCKED
1.	S1/C91– A	65N.66N	––	60B.31G.60C
2.	S1– A1	65N.66N	––	31G
3.	S1/C91– AA	66N	––	60B
4.	S1/C91– C	––	––	––
5.	S1/C91– D	––	––	60C
6.	S1– D1	––	––	––
7.	S1/C91– E	––	––	60C.60D
8.	S1– E1	––	––	––
9.	S1/C91– F	––	––	38G.44G.46G.48G
10.	S30/C100– A	––	––	37B
11.	S30– A1	––	––	37B
12.	S30– A2	66N	––	––
13.	S30– B	––	––	(31G OR PT 64R)
	C100– B	––	––	(33SB OR PT 68R)
14.	S30/C100– D	87N	––	33C.37B
15.	S30– D1	87N	––	37B
16.	S30/C100– E	87N	––	33C.33D.37B
17.	S30– E1	87N	––	37B
18.	S5– A	––	––	––
19.	S5– A1	––	––	––
20.	S12– F	––	––	––
21.	S12– F1	––	––	––
22.	S12– G	66N	––	60B
23.	S4– H	––	––	––
24.	S6– H	––	––	38G.44G.46G.48G
25.	S10– G	––	––	––
26.	S16– G	––	––	60C.40SB.42SB.50SB
27.	S18– G	––	––	40SB.60C.60D.42SB.50SB
28.	S19– K	88N	––	33C.37B
29.	S23– K	––	––	33C.33D
30.	S25– K	––	––	33C
31.	S27– K	––	––	––

13. THE 'OFF' ASPECT OF A STARTER SIGNAL IMMEDIATELY PRECEDING AN ADVANCE STARTER SIGNAL SHALL BE RELEASED BY THE 'OFF' ASPECT OF THE ADVANCE STARTER SIGNAL.

14. SPECIAL FEATURES :
(A) ALL LOOP LINE STARTER SIGNALS ARE APPROACH CLEARED.
(B) DC TRACK CIRCUIT WITH QBAT RELAY HAS BEEN PROVIDED ON ALL BERTHING LINES(1,2,3,4 & 5) AND LONGER LOOP.

15. GR DEVIATIONS :
(A) FOLLOWING SIMULTANEOUS MOVEMENTS HAVE BEEN PERMITTED VIDE GR 3.47 AS SANCTIONED BY CRS/NC/NDLS VIDE SANCTION NO. SANC/217/Q/S&T/LKO/PKX/NC DATED 30.12.2022.
  (i) WHILE DN: HOME SIGNAL NO. 30 IS 'OFF' FOR 'B' ROUTE,
    (a) DEPARTURE OF DN: TRAIN FROM LINE NO. 4 OR 5 OR COMMON LONGER LOOP('6H' ROUTE).
    (b) RECEPTION OF UP TRAIN ON COMMON LONGER LOOP ('1F' ROUTE).
  (ii) WHILE DN: HOME SIGNAL NO. 30 IS 'OFF' FOR 'D1' OR 'E1' ROUTE,
    (a) DEPARTURE OF DN: TRAIN FROM COMMON LONGER LOOP('6H' ROUTE).
    (b) RECEPTION OF UP TRAIN ON COMMON LONGER LOOP ('1F' ROUTE).
  (iii) WHILE DN: HOME SIGNAL NO. 30 IS 'OFF' FOR 'A2' ROUTE,
    (a) DEPARTURE OF DN: TRAIN FROM COMMON LONGER LOOP('6H' ROUTE).

16. DESCRIPTION OF ALTERNATIVE ROUTES :

S.NO.	SIGNAL NO.	ROUTE	POINT(N)	POINT(R)
1.	S1/C91	A	61	63
2.	S1/C91	AA	63	61

~~17. THE FOLLOWING SPARE KEYS ARE KEPT IN A SEPERATE SEALED GLASS FRONTED BOX IN SAFE CUSTODY OF SM ON DUTY TO BE USED IN CASE OF EMERGENCY WHEN KLCR FAILS:–~~
~~(i) KEY COMB: NO. 12.~~

PAKHRAULI S–IP NO..........
पखरौली

RAKESH KUMAR MEENA Digitally signed by RAKESH KUMAR MEENA Date:2022.06.13 04:05:43 +05'30'	Jitender Kumar Digitally signed by Jitender Kumar Date:2022.06.17 02:20:35 +05'30'		ANIL KUMAR GOD Digitally signed by ANIL KUMAR GOD Date:2022.06.13 04:17:07 +05'30'	Vikas Makhija Digitally signed by Vikas Makhija Date:2022.06.22 11:54:09 +05'30'		Sd/– 28.05.2022	anita Digitally signed by anita Date:2022.06.13 04:33:04 +05'30'	SANJAY BAJPAI Digitally signed by SANJAY BAJPAI Date:2022.06.14 05:42:56 +05'30'	Vijay Kumar Pandey Digitally signed by Vijay Kumar Pandey Date:2022.06.22 04:20:20 +05'30'
सीनियर सेक्शन इन्जी./नि./डी एण्ड डी SSE/C/D&D	सीनियर सेक्शन इन्जी./डी एण्ड डी SSE/D&D	स.अभि. सिग.एवं दूसंइन्जी./नि.II/डी एण्ड डी AESTE/C–II/D&D	स.अभि. सिग.एवं दूसंइन्जी./नि./डी एण्ड डी AESTE/C/D&D	स.अभि. सिग.एवं दूसंइन्जी./डी एण्ड डी AESTE/D&D	अभि. सिग.एवं दूसंइन्जी./डी एण्ड डी ESTE/D&D	मं. रे. प्र./लखनऊ DRM/LKO	उप मुसिग.एवं दूसंइन्जी./नि./डी एण्ड डी कृते मुसिग.एवं दूसंइन्जी./नि. (DY.CSTE/C/D&D) FOR CSTE/C	मु.या.यो.प्र. CTPM	उप मुसिग.एवं दूसंइन्जी./डी एण्ड डी कृते प्र.मुसिग.एवं दूसंइन्जी. (DY.CSTE/D&D) FOR PCSTE

संकेत एवं अन्तर्पाशन विन्यास
SIGNAL & INTERLOCKING PLAN
(ELECTRONIC INTERLOCKING) (STD - II)

पखरौली
PAKHRAULI (PKX)
(CLASS 'B') (श्रेणी 'ख')

№ S-IP
7346

BASED ON No. S–IP 6720 ALT:'E'	COMP. ON: 16.01.2023	SUPERSEDES I/P NO.	PKX–IP–DL–LKO–NR