IRCON INTERNATIONAL LIMITED
(A Govt. of India Undertaking)
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AVNISH MISHRA — Digitally signed by AVNISH MISHRA — Date: 2022.08.31 15:46:00 IST — AMBASTHIRCON

I P Sharma — Digitally signed by I P Sharma — Date: 2022.08.31 15:46:00 IST — CMDSTHIRCON

पूर्व तट रेल
ईस्ट कोस्ट रेलवे
EAST CENTRAL RAILWAY
DANAPUR DIVISION

APPROVED BY: NIRAJ YADAV (NIRAJ YADAV) CSTE/DADHUP — PCSTE / ECR / HJP

COUNTER SIGNED BY: NEERAJ AMBASTH (NEERAJ AMBASTH) PCOM / ECR / HJP; Md. Imtey az Alam — PCOM / ECR / HJP; MAN Digitally signed by MAN SINGH KUMAR Date: 2022.08.31 15:46:00 IST — Sr. DOS (COM) DDU; BINOD KUMAR SINGH — Sr. DOS (COM) DDU; SUMAN KUMAR SINGH — ASTM/P.C/ECR/SHUP; RAVI SHANKAR — ASTM/P.C/ECR/SHUP

CHECKED BY: RAVI SHANKAR — ASTM/P.C/ECR/SHUP; Arun Kumar Singh — SSE /P.C/ECR/SHUP; Mukesh Tiwari — SSE /SIG /ECR/SHUP

C.R.S. SANCTION NO.: DATE :- COMPLETED ON

SCALE: LONGITUDINAL : 1CM = 10M; TRANSVERSE : 1CM = 5 M

CENTRAL PANEL(E.I.)
SIGNAL INTERLOCKING PLAN
MAGL. STD-II(R) CLASS-B

तिलैया
TILAIYA (TIA)

SIP No.: ECR/SIP/DNR/TIA 316/2022

BASED ON CR 1 DRG. NO. TI-85-2000 ALT-2

SPECIAL INSTRUCTIONS/APPROVED SPECIAL INSTRUCTIONS

SL NO.	INSTRUCTIONS	ISSUED BY	AUTHORITY	DATE	REMARKS
1.	UNDER THE PROVISION OF GR PARA 3.47 FOR TAKING 'OFF' SIGNAL FOR MORE THAN ONE TRAIN AT A TIME OR SIMULTANEOUS RECEPTION OF TRAINS.	PCOM/ ECORUP			TO BE OBTAINED
2.	UNDER THE PROVISION OF GR PARA 3.51(1) FOR TAKING POINT 54 NORMALLY TOWARDS LSS 'UP' BYTHE TRAIN STRAIGHT	PCOM/ ECRHJP			TO BE OBTAINED

DETAILS OF SIGNAL ROUTES HAVING ALTERNATE OVERLAPS:

SIGNAL NO.	LEADING TO	DETAILS OF OVERLAP
S91	LINE NO.1	TOWARDS LSS 917 WHEN POINT 69 REVERSE & 60 ,66 & 63 NORMAL.
	LINE NO.2	TOWARDS LSS 917 WHEN POINT 69 ,60 ,62 , 66 & 68 NORMAL.
	LINE NO.3	TOWARDS LSS 919 WHEN POINT 69,61, 62,66,68 & 60 NORMAL & 60 & 63 REVERSE
		TOWARDS OVERRUN LINE WHEN POINT 60, 51, 62, 63 & 65 NORMAL.
		TOWARDS LSS 919 WHEN POINT 60, 51, 62, 64 & 66 NORMAL & 63 REVERSE
		TOWARDS LSS 917 WHEN POINT 60, 51, 63 & 65 NORMAL & 62 REVERSE
	LINE NO.4	UP TO DS 54 NORMAL
S93	LINE NO.1	TOWARDS LSS 919 WHEN POINT 61 & 63 NORMAL & 54 REVERSE
		TOWARDS LSS 917 WHEN POINT 69 REVERSE & 60 ,62 & 66 NORMAL.
		TOWARDS LSS 919 WHEN POINT 69 ,60 & 63 REVERSE & 61, 62, 64, 66 & 68 NORMAL.
	LINE NO.2	TOWARDS LSS 917 WHEN POINT 69, 60, 62, 66 & 68 NORMAL.
		TOWARDS LSS 919 WHEN POINT 69,61, 62,64,66 & 68 NORMAL & 60 & 63 REVERSE
	LINE NO.3	TOWARDS OVERRUN LINE WHEN POINT 60, 51, 62, 63 & 65 NORMAL.
		TOWARDS LSS 919 WHEN POINT 60, 61, 62, 64 & 66 NORMAL & 63 REVERSE
		TOWARDS LSS 917 WHEN POINT 69, 60, 61, 62 & 65 NORMAL & 63 REVERSE
	LINE NO.4	UP TO DS 54 NORMAL.
S19	LINE NO.1	TOWARDS SHAND HUMP WHEN POIN 54 NORMAL.
		TOWARDS LSS 54 WHEN POINT 54 REVERSE & 51 & 52 NORMAL.
	LINE NO.2	TOWARDS LSS 52 WHEN POINT 52 & 53 NORMAL 51 & 54 REVERSE
		TOWARDS LSS 54 WHEN POINT 51, 53, 54 NORMAL & 52, REVERSE
	LINE NO.3	TOWARDS LSS 52 WHEN POINT 51, 53 & 53 NORMAL.
		TOWARDS SHAND HUMP WHEN POIN 53 & 55 NORMAL.
		TOWARDS LSS 54 WHEN POIN 51, 54 & 55 NORMAL & 52 & 53 REVERSE.
		TOWARDS LSS 52 WHEN POIN 51, 52 & 55 NORMAL & 53 REVERSE.
S20	LINE NO.1	TOWARDS SHAND HUMP WHEN POIN 54 NORMAL.
		TOWARDS LSS 54 WHEN POINT 54 REVERSE & 51 & 52 NORMAL.
	LINE NO.2	TOWARDS LSS 54 WHEN POINT 51, 53, 54 NORMAL & 52, REVERSE
		TOWARDS LSS 52 WHEN POINT 51, 52 & 53 NORMAL.
	LINE NO.3	TOWARDS SHAND HUMP WHEN POIN 53 & 55 NORMAL.
		TOWARDS LSS 54 WHEN POIN 51, 54 & 55 NORMAL & 52 & 53 REVERSE.
		TOWARDS LSS 52 WHEN POIN 51, 52 & 55 NORMAL & 53 REVERSE.
	LINE NO.4	TOWARDS TWS WHEN POIN 55 & 56 NORMAL.

ALT	DESCRIPTION	REFERENCE	CHECKED BY	COUNTER SIGNED BY	APPROVED BY	CRS SANCTION NO. & DATE	DATE OF COMM.
		JE/DR/SI HJP; SSE/SI HJP; ASTE/ D&D/HJP; SSTE/ D&D/HJP; DY.CSTE/ D&D-1/HJP		F.COMM/HJP	CSTE/P.C/HJP / CSTE/HJP		

LEGENDS:-
1. PROPOSED WORK
2. EXISTING WORK

THIS SIP SUPERCEDES PREVIOUS SIP NO. ECR/SIP/DNR/316/2016 UPTO ALT-VIII

PANEL DETAILS:-

PANEL NO.	: 1,2,3,4,5,6,7,8,9,10,11,12,17,18,19,20.
CALLING ON SIGNAL	: C-1, C-3, C-18, C-26.
SHUNT SIGNAL	: 1S, 3S, 5S, 7S, 9S, 11S, 113,201, 203, 204, 205.
PBS	: 51, 52, 53, 54, 55, 56, 60, 61, 62, 63, 64, 65, 66.
CRANK HANDLE CONTROL	: CH1, CH2, CH3, CH4, CH5, CH6, CH9, CH10, CH11, CH12, CH13, CH14.
L-X WB GATE CONTROL	: GX1.

NOTES:-

1. ABSOLUTE BLOCK SYSTEM OF WORKING WITH WAZIRGANJ, KHERAUNDH, ORO (JAGDISHPUR) & NAWADA JN.
2. SINGLE LINE UFSB BLOCK PANEL WITH HASSDAC WORKING WITH KHERAUNDH,ORO (JAGDISHPUR) & NAWADA JN. & DOUBLE LINE UFSB BLOCK PANEL WORKING WITH WAZIRGANJ.
3. MAGNETIC TELEPHONE PROVIDED WITH PANEL ROOM & GATE NO.-14,15,16,43,46,47,48.
4. ALL ANGLE OF XING ARE 1 IN 12 EXCEPT AS MENTIONED.
5. CONTROL TELEPHONE PROVIDED AT PANEL ROOM.
6. LED SIGNAL PROVIDED FOR ALL MAIN SIGNALS.
7. TWO-WAY HAND MADE AC CIRCUIT PROVIDED WITH NEW B.G. LINE BETWEEN TILAYA-KODERMA.
8. 60 SEC. TIME DELAY PROVIDED FOR ALL CALLING -ON RECEPTION SIGNAL.
9. VIDE RLY BOARD L.NO.-2010/SAFETY (ARS)/1/92, DATED-02/11/2012(ITEM NO.-C INTEGRATED POWER SUPPLY TO BE PROVIDED.
10. 60 SEC. TIME DELAY PROVIDED FOR ALL CALLING ON SIGNAL WITH CANCEL OPTION AT PANEL ROOM.
11. EXISTING SIGNALLING INSTALLATION TO BODIFY TO SUIT 25KV AC TRACTION.
12. MOTOR OPERATED ELECTRICAL LIFTING BARRIER AT LC NO-46C IN PLACE OF MECHANICAL LIFTING BARRIER.
13. AXLE COUNTER PROVIDED IN REAR OF S-17 INSTEAD OF TRACK CIRCUIT.