SIGNAL SPECIFIC NOTES-I

1. NUMBER GRID:

FUNCTIONS	LOCATION or DIRECTION	RANGE	SPARES
SIGNAL	RIGHT TO LEFT	01-29 (ODD NUMBERS)	9, 13 to 29
	LEFT TO RIGHT	(02-30) (EVEN NUMBERS)	14 to 30
Calling-ON SIGNAL	RIGHT TO LEFT	C-1	
	LEFT TO RIGHT	C12	
SHUNT SIGNAL	RIGHT TO LEFT	201-259 (ODD NUMBERS)	209,211,213,219 to 259
	LEFT TO RIGHT	202-260 (EVEN NUMBERS)	208, 218 to 260
POINTS	RIGHT HAUF	51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61	--
	LEFT HAUF	62, 63, 64, 65, 66, 67, 68, 69, 70, 71.	--
SIDING POINTS	RIGHT HAUF	--	--
	LEFT HAUF	G-31	--
LC GATE	RIGHT HAUF	G-32	--
	LEFT HAUF	--	--

2. BLOCK WORKING:

SECTION	TYPE OF BLOCK WORKING	BLOCK INSTRUMENT TYPE	BPAC	REMARKS IF ANY
MKA- TAL Jn.	ABSOLUTE BLOCK	UFSB+BLOCK PROVING DOUBLE LINE	HASSDAC	LOCATED AT SM ROOM
MKA - MOR	ABSOLUTE BLOCK	UFSB+BLOCK PROVING DOUBLE LINE	HASSDAC	LOCATED AT SM ROOM

3. DETAILS OF TRACK CIRCUITS:

TRACK CIRCUIT NOS.	TYPE OF TRACK CIRCUITS	REMARKS IF ANY
517-T, 007-T(T), 27-T, 12-T, 17-T, 52-T, 59T, 08BT, 03AT, 01-T, 06BT, 04BT, 01BT, 01-T, 07-T, 61T, 61BT, 61T, 07, 01071, 047, 041, 0372, 0872, 087, 0871, 0471, 0371, 0871, 07087, 0872, 0472, 037, 071, 04871, 0447, 0447T, 0371T, 0371BT, 0447BT, 0471BT, 0471T, 0871T, 0871BT, 0447, 0111, 127, C127.	DC SINGLE RAIL TRACK CIRCUIT	-

4. DETAILS OF AXLE COUNTERS:

AXLE COUNTER SECTION	AXLE COUNTER	TYPE OF RESETTING	LOCATION OF RESETTING BOX	LOCATION OF POWER/VALVE OPERATING BOX
MKA- TAL Jn. (DN)	HASSDAC	PREPARATORY	AT MOKAMA STN.	AT TAL Jn.
TAL Jn.-MKA (UP)	HASSDAC	PREPARATORY	AT TAL Jn.	AT MOKAMA STN.
MOR - MKA (DN)	HASSDAC	PREPARATORY	AT MOR STN.	AT MOKAMA STN.
MKA - MOR (UP)	HASSDAC	PREPARATORY	AT MOKAMA STN.	AT MOR STN.

SIGNAL SPECIFIC NOTES- II

5. DETAILS OF MOTOR OPERATED POINTS WITH CRANK HANDLE GROUPING:

GROUP	POINTS	TYPE OF POINT MACHINE	CH EKT KEPT AT
CH1	51	IRS POINT MACHINE	SM ROOM
CH2	52	IRS POINT MACHINE	SM ROOM
CH3	53	IRS POINT MACHINE	SM ROOM
CH4	54	IRS POINT MACHINE	SM ROOM
CH5	55	IRS POINT MACHINE	SM ROOM
CH6	56	IRS POINT MACHINE	SM ROOM
CH7	57	IRS POINT MACHINE	SM ROOM
CH8	58	IRS POINT MACHINE	SM ROOM
CH9	60	IRS POINT MACHINE	SM ROOM
CH10	61	IRS POINT MACHINE	SM ROOM
CH11	62, 63, 70	IRS POINT MACHINE	SM ROOM
CH12	64	IRS POINT MACHINE	SM ROOM
CH13	65	IRS POINT MACHINE	SM ROOM
CH14	66	IRS POINT MACHINE	SM ROOM
CH15	67	IRS POINT MACHINE	SM ROOM
CH16	68	IRS POINT MACHINE	SM ROOM
CH17	69	IRS POINT MACHINE	SM ROOM
CH18	59	IRS POINT MACHINE	SM ROOM

6. DETAILS OF SIDING POINTS:-NIL (IF ANY)

i. POINT IN ALL LOCKED WITH SUCCESSIVE KEY RELEASE ARRANGEMENT
ii. SIDING POINT KEY IS TRANSMITTED TO SITE BY SM FOR OPERATION
iii. SIDING POINT KEY A IS EXTRACTED FROM EKT LOCATED AT SITE
iv. THIS KEY IS INSERTED TO UNLOCK A END POINT
v. KEY B IS EXTRACTED AND TRAP POINT IS SET TO REVERSE
vi. KEY B IS INSERTED AT OTHER END AND TRAP POINT IS SET TO REVERSE
vii. SIDING IS READY FOR SHUNTING

SIDING POINT DETECTION TABLE(NIL):

SIDING POINT NO.	DETECTS POINT NORMAL/REVERSE	PROVED IN SIGNAL NO.	LEADING TO
--	--	--	--

7. INTERLOCKED LC GATE DETAILS:

i. LC NO.- 50 & 51 IS PROVIDED WITH EOLB
ii. WHICH IS OPERATED TO CLOSE THE LC GATE AND WINCH KEY IS TAKEN OUT - NIL
iii. WHICH ON REMOVING THE WINCH KEY, THE SIGNALS ON BOTH SIDES ARE REVERSED- NIL
iv. BOOM LOCK KEY IS TAKEN OUT AND INSERTED IN EKT FOR TRANSMISSION TO STATION MASTER.

8. COMMUNICATION DETAILS:

TELEPHONE COMMUNICATION IS PROVIDED BETWEEN SM AND LC NO -50 & 51.
SIDING POINT:-NIL

9. DETAILS OF SIGNAL ROUTES HAVING ALTERNATE OVERLAPS

SIGNAL NO.	LEADING TO	DETAILS OF OVERLAP
S01	ROAD 1(UN-1)	UP TO LSS 511 WHEN POINT 67 'R', 68'N' & 69'N'.
S01	ROAD 2(UN-2)	UP TO LSS 511 WHEN POINT 67 'N', 68'N' & 69'N'.
S01	ROAD 9(UN-9)	UP TO OVER RUN WHEN POINT 68 'N'.
S01	ROAD 9L(UN-C)	UP TO LSS 511 WHEN POINT 68 'R', 67 'N', & 69 'N'.

SIGNAL NO.	LEADING TO	DETAILS OF OVERLAP
S12	ROAD 3(UN-A)	UP TO LSS 502 WHEN POINT 51 'N', 52 'N' & 60 'N'.
S12	ROAD 4(UN-B)	UP TO LSS 502 WHEN POINT 60 'R', 59'N', 52'N' & 51'N'.
S12	ROAD 4L(UN-B)	UP TO LSS 502 WHEN POINT 60 'R', 59'R', 52'N' & 51'N'.
S12	ROAD 9L(UN-C)	UP TO LSS 502 WHEN POINT 51'R', 52'R', 59'N' & 60'N'. UP TO GAND HUMP WHEN POINT 51'N' & 59'N'.

SIGNAL INSTRUCTION / APPROVED SPECIAL INSTRUCTION

SL.NO	INSTRUCTION	ISSUED BY	AUTHORITY	REMARKS
1.	UNDER THE PROVISION OF GR. PARA 3.07(7) SIGNAL ARE DN. ADV. STR-2 COMBINED WITH D2-1 OF TAL JN.	CRS		DISPENSATION OBTAINED NO:3/10/VIII/ 0620/H, DT.-13/5/16
2.	UNDER THE PROVISION OF GR. PARA 3.04(1) SHUNT SIG. 210 IS PLACED IN RIGHT HAND SIDE OF THE TRACK.	COM		OBTAINED COM/ECR/ HJP. I NO.-NIL. DT.-22/6/16

APPROVAL PANEL

ALT	DESCRIPTION	REFERENCE	CHECKED BY: SSE/ CRS PLAN	SSE/ RDSO/JP	AXTE/ RDSO/JP	Dy CATE PLAN	AXTE/ MKDNP	COUNTER SHARED BY: JE/ SIGNAL PCWR/UNIT	JE/ SIGNAL PCWR/UNIT	APPROVED BY: FOR PCRE/RDSO/JP	DRB SANCTION NO. & DATE	DATE OF COMM

MOKAMA Jn.

THIS LINE IS ONLY PRINTED TO SCALE IF THIS LINE MEASURES 100MM.

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

PANEL INTERLOCKING
SIGNAL INTERLOCKING PLAN

COMPLETED ON
CLASS: 'B' (MACLS)
STANDARD OF INTERLOCKING: III
SCALE: LONGITUDINAL 1CM=10M; VERTICAL 1CM=5M

SIGNAL INTERLOCKING PLAN
ECR/SIP/DNR/MKA/109/2022

SIP NO:ECR/SIP/DNR/MKA/109/2022
Version:SIP

ZONE: ECR
DIVISION: DNR
STATION: MKA

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SIGNAL SPECIFIC NOTES-I

1. THIS PLAN IS BASED ON SIGNAL INTERLOCKING PLAN NO - **ECR/SIP/DNR/109/2012, ALT.-IX**
2. THE PLAN IS BASED ON TRACK LAYOUT PLAN NO - **ECR/P.WAY/PLAN/2000/ TYPE-IV, ALT-XX**
3. THIS PLAN SUPERSEDES SIP/SIGP NO. ECR/SIP/DNR/109/2012
4. THIS STATION IS LOCATED IN 25 KV AC ELECTRIFIED SECTION.
5. ALL THE STOP SIGNALS ARE LOCATED CLEAR OFF NEUTRAL SECTION.
6. VISIBILITY OF NEW SIGNALS TO BE ENSURED BY SIGNAL SIGHTING COMMITTEE SUBJECT TO LIGHTING OF SIGNALS.
7. SYSTEM OF WORKING IS ABSOLUTE BLOCK SYSTEM.
8. LC GATE MECHANICALLY OPERATED.-NIL
9. NO APPROACH WARNING IS PROVIDED FOR THE LC GATE.
10. THE GROUND MOUNTED LEVER FRAMES ARE PROVIDED FOR SIDING POINT OPERATION AND LC GATE OPERATION.-NIL
11. THE HPI IS PROVIDED FOR SIDING POINT AND STANDS NORMALLY IN.-NIL
12. ALL THE WORKS ARE CARRIED OUT AS PER THE PROVISIONS IN THE SEM, G & SR AND OTHER POLICY LETTERS.
13. THE NEW EQUIPMENT IS PLACED AS PER SITE SURVEY.
14. RECORD OF DESIGN DECISIONS ARE DETAILED IN SCHEME PLAN DESIGN LOG:-NIL
15. FOULING POINTS ARE REQUIRED TO BE MEASURED ON SITE.
16. SIGNAL AND SIGNAGES ARE IN ACCORDANCE WITH G&SR AND SEM.
17. THE CROSS OVER POINTS ARE OPERATED BY PARALLEL OPERATION.
18. PROTECTED TRACK CROSSING AT LEVEL CROSSING POINTS:-NIL
19. NON STANDARD SYMBOLS USED ON THIS PLAN ARE:-NIL
20. LIST OF ASSUMPTION BEING MADE WHILE SCHEME PLAN WAS IN PRODUCTION ARE
(i)-----
(ii)-----
21. SCHEME PLAN SPECIFIC ISSUES WHICH ARE STILL TO BE RESOLVED
(i)-----
(ii)-----
22. TYPE OF INTERLOCKING : PANEL INTERLOCKING.
23. REFER INTERLOCKING CONTROL CHART FOR DETAILS OF ALL SIGNAL ROUTES.
24. COMPLETION DETAILS TO BE INCORPORATED AFTER COMMISSIONING THE WORKS SUITING TO SITE CONDITIONS FOR GENERATING SIGNAL INTERLOCKING PLAN (RECORDS UPDATED).
25. SPECIAL NOTES RELATED TO SPECIFIC RAILWAY/ STATION LIKE SPT, EMERGENCY GATE KEY etc.
26. ALL MAIN SIGNALS, SUBSIDIARY SIGNALS, GROUND SHUNT SIGNALS, REPEATER SIGNALS, STANDARD AND MINIATURE INDICATORS, POSITION LIGHT JUNCTION INDICATORS ARE OF LED TYPE.

SIGNAL SPECIFIC NOTES- III

10. 60 SEC. TIME DELAY PROVIDED FOR C-1, C-12 SIGNAL.
11. ALL ANGLE OF XINGS ARE 1 IN 12 EXCEPT AS MENTIONED.
12. SIGNAL OVERLAP-120M AND BLOCK OVERLAP-120m IS TAKEN.
13. LC GATE NO.50 IS SITUATED AT KM-453.076 AND LC GATE NO.51 IS SITUATED AT Km.-454.99, CH:931.07M ALL GATES ARE ELECTRICALLY OPERATED BY ELECTRICAL LIFTING BARRIER & INTERLOCKED SLIDING BOOM.
14. POINT 62 & 63 WILL NORMALLY BE LOCKED IN NORMAL POSITION UNLESS UNLOCKED BY SPECIAL SLOT BUTTON SW-62 & SW-63.
15. CONTROL TELEPHONE PROVIDED AT VDU ROOM.
16. ROAD SIGNAL SHALL DISPLAY RED ASPECT WHEN SLIDING BOOM IS USED TO CLOSE THE ROAD TRAFFIC.
17. DEAD APPROACH LOCKING PROVIDED FOR INTERLOCKED GATES OF BLOCK SECTION WITH 60 SEC. TIME DELAY.
18. PANEL DETAILS:-
   1. MAIN SIGNAL BUTTONS:- 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12.
   2. CALLING-ON SIGNAL BUTTONS:- C-1, C-12.
   3. SHUNT SIGNAL BUTTONS:- 103, 104, 105, 106, 107, 108, 110, 201, 202, 203, 204, 205, 206, 207, 210, 212, 214, 215, 216, 217, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70.
   4. POINTS BUTTONS:- G-31, G-32
   5. GATE CONTROLBUTTONS:- CH-1, CH-2, CH-3, CH-4, CH-5, CH-6, CH-7, CH-8, CH-9, CH-10, CH-11, CH-12, CH-13, CH-14, CH-15, CH-16, CH-17, CH-18.
   6. CRANK HANDLE BUTTONS:- SW-62, SW-63
   7. SLOT BUTTONS :-
19. L-XING DETAILS BETWEEN DINKAR GRAM MKA - TAL JN

SL. NO	L.C. NO	KM.	(MA)M	CLASS	BLOCK SECTION	TEL.CONNECTED WITH	INTERLOCKED WITH	TVU
1	49	447/13-15	UM	'B2'	MKA-TAL	TAL JN	———	206/05/NOV/ 2005
2	50	453.076	UM	'BPL'	MKA-TAL JN	MKA YARD	INTERLOCKED	128/11/FEB-2005

21. L-XING DETAILS BETWEEN DINKAR GRAM MOR - MKA.

SL. NO	L.C. NO	KM.	(MA)M	CLASS	BLOCK SECTION	TEL.CONNECTED WITH	INTERLOCKED WITH	TVU
1	51	454.99	UM	'BPL'	MKA-YARD	MKA	INTERLOCKED	———

23. POINT MACHINE TO BE OUT SIDE OF TRACK WHERE FEASIBLE
24. STANDARD COLOUR SCHEME NEEDS TO BE ADOPTED FOR DEPICTING INTENDED ALTERATIONS IN THE SIP
   i) FOR NEW WORK:- RED COLOUR
   ii) FOR ALTERATIONS:- GREEN COLOUR.
25. LIST FOULING TRACK CIRCUIT:-

Signature block		
CSTE/PLG	RISHI GUPTA	Digitally signed by RISHI GUPTA Date: 2022.05.19 17:24:05 +05'30'
CTPM/ECR	NEERAJ AMBASTHA	2022.05.19 18:41:00 +05'30'
SrDOM/DNR	Md Imteyaz Alam	Digitally signed by Md Imteyaz Alam Date: 2022.05.19 11:32:11 +05'30'
SrDSTE/DNR	RAJESH KUMAR KUSHWAHA	Digitally signed by RAJESH KUMAR KUSHWAHA Date: 2022.05.13 15:55:16 +05'30'
DyCSTE/PLG	BINOD KUMAR SINGH	Digitally signed by BINOD KUMAR SINGH Date:2022.04.08 02:54:11 +05'30'
ASTE/D&D/I	RAVI SHANKAR	Digitally signed by RAVI SHANKAR Date:2022.04.08 02:50:29 +05'30'
ASTE/Plg/II/HJP	SUMAN KUMAR SINGH	Digitally signed by SUMAN KUMAR SINGH Date:2022.04.08 01:26:52 +05'30'
JE/Signal/HJP	KUMAR GAURAV	Digitally signed by KUMAR GAURAV Date: 2022.04.22 12:55:40 +05'30'
SSE/Drg	Arun Kumar Singh	Digitally signed by Arun Kumar Singh Date:2022.04.08 01:22:39 +05'30'
SSE/Drg	Tarakant Chaudhary	Digitally signed by Tarakant Chaudhary Date:2022.04.08 01:03:01 +05'30'

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