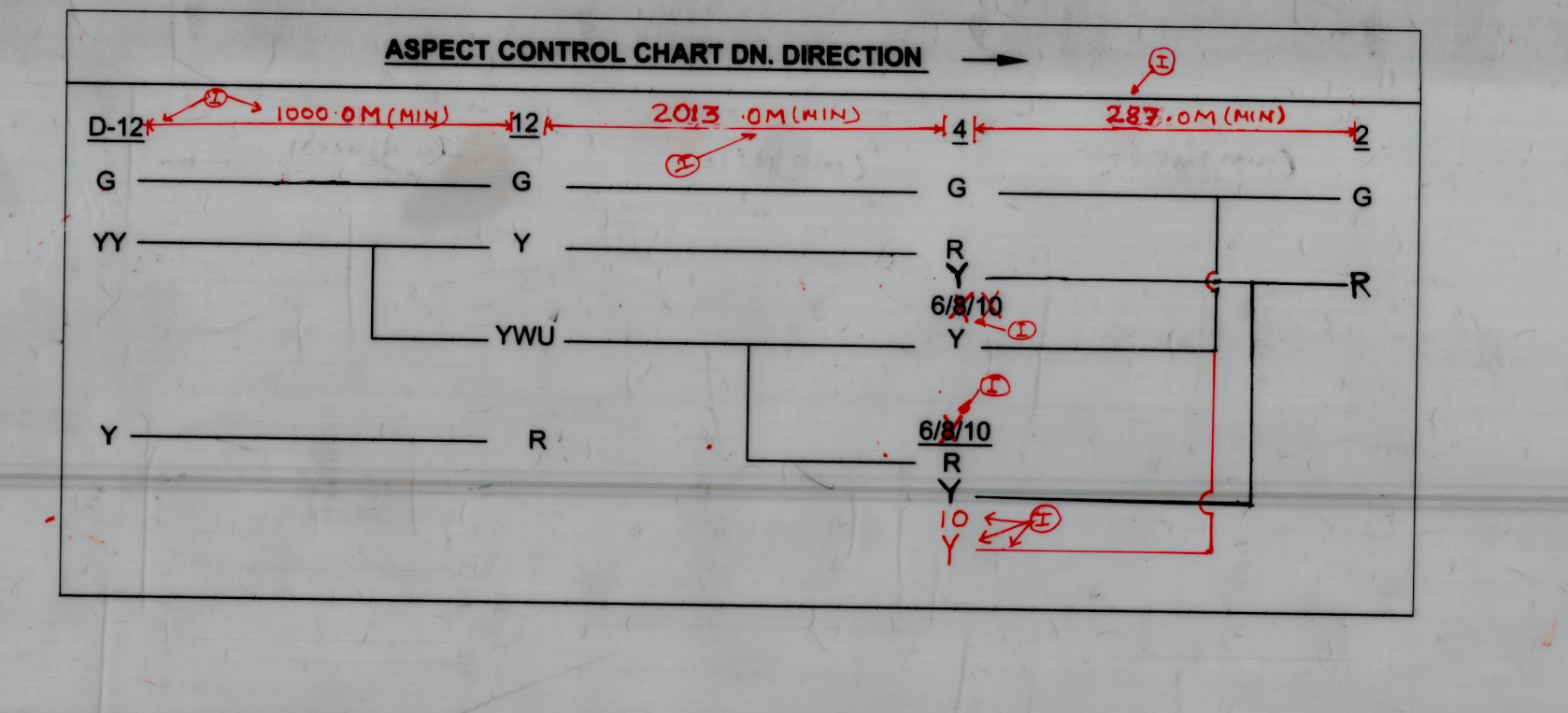
F 1 IN 200
F 1 IN 223.88
CH: 3630.0m
R1 IN 223.88 LEVEL
CH: 2196.0m
LEVEL F 1 IN 462.590
CH: 2000.0m
R1 IN 462.590 LEVEL
CH: 850.0m
TO TORI
(14·600 KM FROM KUSMAHI)
NEXT STATION BIRATOLI
(8·100 KM)
DN
UP
1400·00M(MIN)
1000.00M(MIN)
180·0M (MIN)
180.0M(MIN)
65M
D-12
C-12
S-12
C-12T
12 T
12T1
11T
12T
011T
S-11
5,7,9,105,107,109,203
120M(MIN)
SH202
PT-60B CH: 798M
C/L OF BRIDGE NO-31 (1X3M)RCC BOX
KM-13/790 CH:810.00
EK 2
EK 1
60AT
60BT
BR NO. 37 CH: 208.00M
P/F END CH: 167.00M
UP DN
C/L OF KUSMAHI STN. BUILDING
CH. 0.000
KM. 125/578(FROM KODERMA)
N
C/L BRIDGE NO-33(RUB) (1X6M)RCC BOX
AT KM-14/392 CH:208.00
RAIL LEVEL PLATFORM 600.0M X 11m (LONG)
UP DISPATCH CUM DN
COMMON LOOP LINE
CAL-1650.M(PT. TO PT.)
CSL-1600.M (ST TO ST)
1625M (SH TO ST)
LINE-4
4 AXCT
DN MAIN LINE
UP MAIN
CAL-1680.M (FM TO FM)
CSL-1630.M (ST TO ST)
1655
DSH
LINE-3
3 AXCT
COMMON LOOP LINE
CAL-1580.M (FM TO FM)
CSL-1530.M (ST TO ST)
1555
DSH
LINE-2
2 AXCT
COMMON LOOP LINE
CAL-1550.M(PT. TO PT.)
CSL-1500.M (ST TO ST)
LINE-1
1 AXCT
12.0m
RAIL LEVEL PLATFORM 600.0M X 6m LONG
700
S. B.
STATION BUILDING WITH S & T AND ELECTRICAL COMPLEX
F.O.B
F.O.B CH: 231.00M
BR NO. 34 CH: 350.00M
P/F END CH: 433.00M
LEVEL F 1 IN 1200
CH: 400.0m
C/L BRIDGE NO-34 (1X4M)RCC BOX
AT KM-14/950 CH:350.00
C/L BRIDGE NO-35 (1X6M)RCC BOX
AT KM-15/350 CH:750.00
C/L BRIDGE NO-36 (2X4M)RCC BOX
KM-15/895 CH:1295.00
C/L BRIDGE NO-37 (1X3M)RCC BOX
AT KM-16/248 CH:1648.00
OVER RUN LINE 120.0M LONG
(NO STABLING)
120.0m(MIN)
180.0m(MIN)
1000.0M(MIN)
1400.0M(MIN)
R1 IN 1200
LEVEL
CH:1700.0m
LEVEL R1 IN 180
CH:1900.0m
F1 IN 180 R1 IN 1200
CH:4000.0m
TO SHIVPUR
(26·900 KM FROM KUSMAHI)
NEXT STATION BALUMATH
(4·700 KM)
DN
UP


ASPECT CONTROL CHART DN. DIRECTION
D-12
1000.0M(MIN)
12
2093.0M(MIN)
4
287.0M(MIN)
2
G
YY
Y
G
Y
YWU
R
G
G
R
Y
6/8/10
R
Y
10

AT PANEL ROOM

CH-1	~~CH-2~~	CH-3	CH-4	CH-5	CH-6	CH-7	CH-8
CRANK HANDLE FOR PT 51	~~CRANK HANDLE FOR PT 52~~	CRANK HANDLE FOR PT 53 & 54	CRANK HANDLE FOR PT 55	CRANK HANDLE FOR PT 56 & 59	CRANK HANDLE FOR PT 57	CRANK HANDLE FOR PT 58	CRANK HANDLE FOR PT 60

ALL CRANK HANDLE WELDED WITH KEY

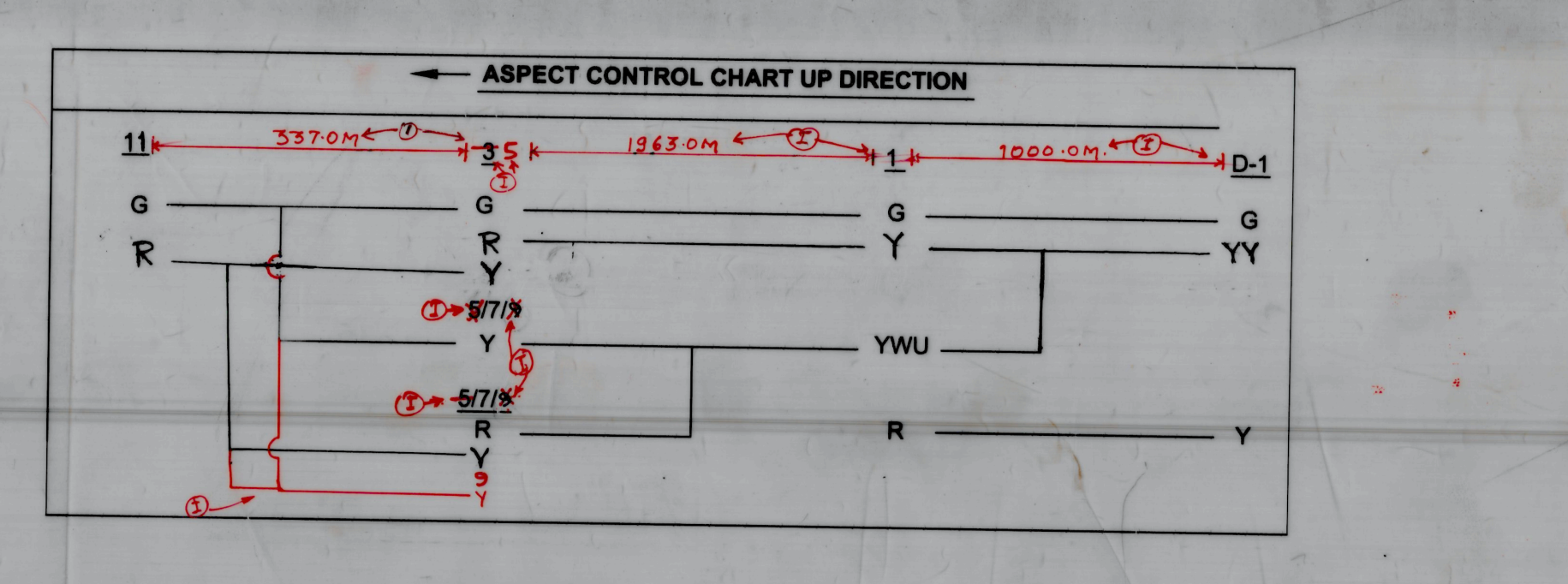
PANEL DETAILS

VDU

MAIN SIGNAL BUTTONS	1. 2. ~~3.~~ 4. 5. 6. 7. ~~8.~~ 9. 10. 11. 12.
CALLING - ON SIGNAL BUTTONS	C-1, C-12
POINT BUTTONS	51. ~~52.~~ 53. 54. 55. 56. 57. 58. 59. 60
CRANK HANDEL CONTROL BUTTONS	CH-1, ~~CH-2~~, CH-3, CH-4, CH-5, CH-6, CH-7, CH8
SHUNT SIGNAL CONTROL BUTTONS	~~103~~, 104, 105, 106, 107, ~~108~~, 109, 110, 201, 202, 203, 204, 205, ~~206~~

NOTE :-

1. ABSOLUTE BLOCK SYSTEM OF WORKING WITH BIRATOLI & BALUMATH.
2. ~~SINGLE LINE TOKEN LESS B INST. (DAIDO TYPE) WORKING WITH BIRATOLI & BALUMATH SITUATED IN PANEL CABIN.~~
3. MAGNETO TELEPHONE PROVIDED IN ~~PANEL~~ CABIN
4. ALL ANGLE OF X- ING ARE 1 IN 12 EXCEPT AS MENTIONED IN SIP.
5. CONTROL TELEPHONE PROVIDED AT ~~PANEL~~ CABIN.
6. ~~BPAC PROVIDED WITH BIRATOLI & BALUMATH & INTERLOCKED, WITH B/INSTRUMENT OF BIRATOLI & BALUMATH.~~
7. LED SIGNAL PROVIDED FOR ALL MACL SIGNALS.
8. ~~TRACK NO 1T,2T AND 11T,12T STAGGERED BY 1.82M.~~
9. THIS SIP HAS BEEN MADE IN CONNECTION WITH ~~NEW~~ DOUBLING OF BG RAIL LINE BETWEEN TORI-SHIVPUR.
10. 60 SEC.TIME DELAY PROVIDED FOR ALL CALLING-ON RECEPTION SIGNAL.
11. AXLE COUNTER (HASSDAC) PROVIDED ON L-1, 2, 3, & L-4.
12. FOR L-1 TO L-4 CO-OPRATIVE RESETTING BOXES SHOULD BE PROVIDED ONE IN PANEL ROOM ANOTHER ENTRY/EXIT-END.
13. UFSBI BLOCK PANEL WITH HASSDAC. DOUBLE LINE TYPE WORKING BETWEEN KUSMAHI- BIRATOLI & KUSMAHI- BALUMATH STN. LOCATED AT PANEL CABIN.
14. TWO VDU (01 STAND BY) PROVIDED FOR PANEL OPERATION IN LIEU OF CONTROL CUM INDICATION PANEL.


ASPECT CONTROL CHART UP DIRECTION
11
3370M
3
1520M
1
1260M
D-1
G
R
G
R
Y
5/7/9
Y
5/7/9
R
Y
G
Y
G
YY
YWU
R
Y

SPECIAL INSTRUCTION / APPROVED SPECIAL INSTRUCTION

SL. NO.	INSTRUCTION	ISSUED BY	AUTHORITY	REMARKS
(1)	UNDER THE PROVISION OF GR. PARA 3.40 (1)(b) ADEQUATE DISTANCE OF 120M HAS BEEN RECKONED FROM THE STARTER FOR THE FOLLOWING SIGNAL. ~~(a) SIGNAL NO. 5 FOR COMMON LOOP LINE NO. 2 FOR THE RECEPTION OF UP TRAIN TO POINT NO. 60 NORMAL.~~ ~~(b) SIGNAL NO. 6 FOR COMMON. LOOP LINE NO. 4 FOR THE RECEPTION OF DN TRAIN UP TO POINT NO. 54 NORMAL.~~ ~~(c) SIGNAL NO. 7 FOR COMMON LOOP LINE NO. 1 FOR THE RECEPTION OF UP TRAIN UP TO DEAD END.~~ ~~(e) SIGNAL NO. 8 COMMON LOOP LINE NO. 2 FOR THE RECEPTION OF DN. TRAIN UP TO PT-52 NORMAL~~ ~~(e) SIGNAL NO. 9 COMMON LOOP LINE NO. 4 FOR THE RECEPTION OF UP TRAIN UP TO PT-59 NORMAL.~~ ~~(f) SIGNAL NO. 10 COMMON LOOP LINE NO. 1 FOR THE RECEPTION OF DN TRAIN UP TO DEAD END.~~	~~C.R.S E/CIRCLE~~		~~DISPENSATION TO BE OBTAINED~~

ALT	DESCRIPTION	REFERENCE	CHECKED BY SSE/S/MHX	CHECKED BY ASTE/CON/MHX	CHECKED BY DSTE/CON/MHX	CHECKED BY Dy.CSTE/C/S/MHX	COUNTER SIGNED CSTE/C/S/MHX	COUNTER SIGNED CTPM/ECR/HJP	APPROVED BY CSTE / PLG./ HJP f. CSTE / ECR./ HJP	CRS SANCTION NO.&DATE	DATE OF COMMISSIONING
I	REMOVAL OF RESPECTIVE ENGG. SDG. AND EXTENSION FOR MAKING AT UP LINE IN CONNECTION WITH TORI-SHIVPUR DOUBLING LINE.	TO SUIT ESP NO.- CE'S DRG NO- Y-39-2015-ALT-2 (SI No. 1 to 5)	(O.P. GOND) SSE/DRG/C/MHX (A.M. TIWARI) SSE/S/C/MHX	V.K. S. (V.K. SINGH) ASTE/C/MHX	31/12 (NEHAL SHAMS) DSTE/CON/MHX	02/01/19 (B.K. SINGH) Dy.CSTE/C/S/MHX	(RAJESH KUMAR)	22.01.19 (S. KUMAR)	23/01/19		
II	COMPLETION DRAWING MADE.		SSE/DRG/C/MHX SSE/S/C/MHX	(R.L. PANDIT)	(NEHAL SHAMS)	(VIKRAMA RANI)	11/5/2020 (MANISH SHARMA)		11/5/2020 (MANISH SHARMA)	CRS SANCTION IS NOT REQUIRED, YARD FIT FOR GOODS TRAFFIC.	

AUTHORITY OF WORK :- P.B. ITEM NO.NIL (DEPOSIT WORK)

PREPARED BY		APPROVED BY	COUNTER SIGNED BY		CHECKED BY							C.R.S. SANCTION NO.	SCALE			
SKYLARK PATNA	पूर्व मध्य रेल धनबाद मंडल EAST CENTRAL RAILWAY DHANBAD DIVISION	10/2/16 (JAGMOHAN RAM) CSTE / PLG./ HJP FOR CSTE / ECR/ HJP	8/3/16 (NEERAJ AMBASTHA) CFTM/ECR/HJP FOR COM / ECR / HJP	(P. S. RAI) CSTE / C/ S/MHX	(R. K.ROUSAN) SR.DOM./PLG/DHN	16/02/16 (A.SINGH) SR.DSTE/DHN	10.2.16 (SATENDRA KUMAR) Dy. CSTE / C/S/ MHX	10.2.16 (B.K. THAKUR) DSTE / CON / MHX	10.2.16 (R.K. SINGH) ASTE / CON / MHX	03/02/16 (SHIMLA KUMARI) SSE / S / C / MHX	(O.P. GOND) JE / DRG / C / MHX	DATE:- CRS SANCTION IS NOT REQUIRED, YARD FIT FOR GOODS TRAFFIC. COMPLETED ON	LONGITUDINAL : 1CM = 10M TRANSVERSE : 1CM = 5 M	CENTRAL PANEL [E.I] SIGNAL INTERLOCKING PLAN MACLS , CLASS-'B' ,STD.- II (R)	कुसमाही KUSMAHI	SIGNALLING PLAN NO. ECR/SIP/DHN/541/2016

BASED ON ON CE DRG. No. - Y-39-2015 PH-I

KUSMAHI

DRN-2016