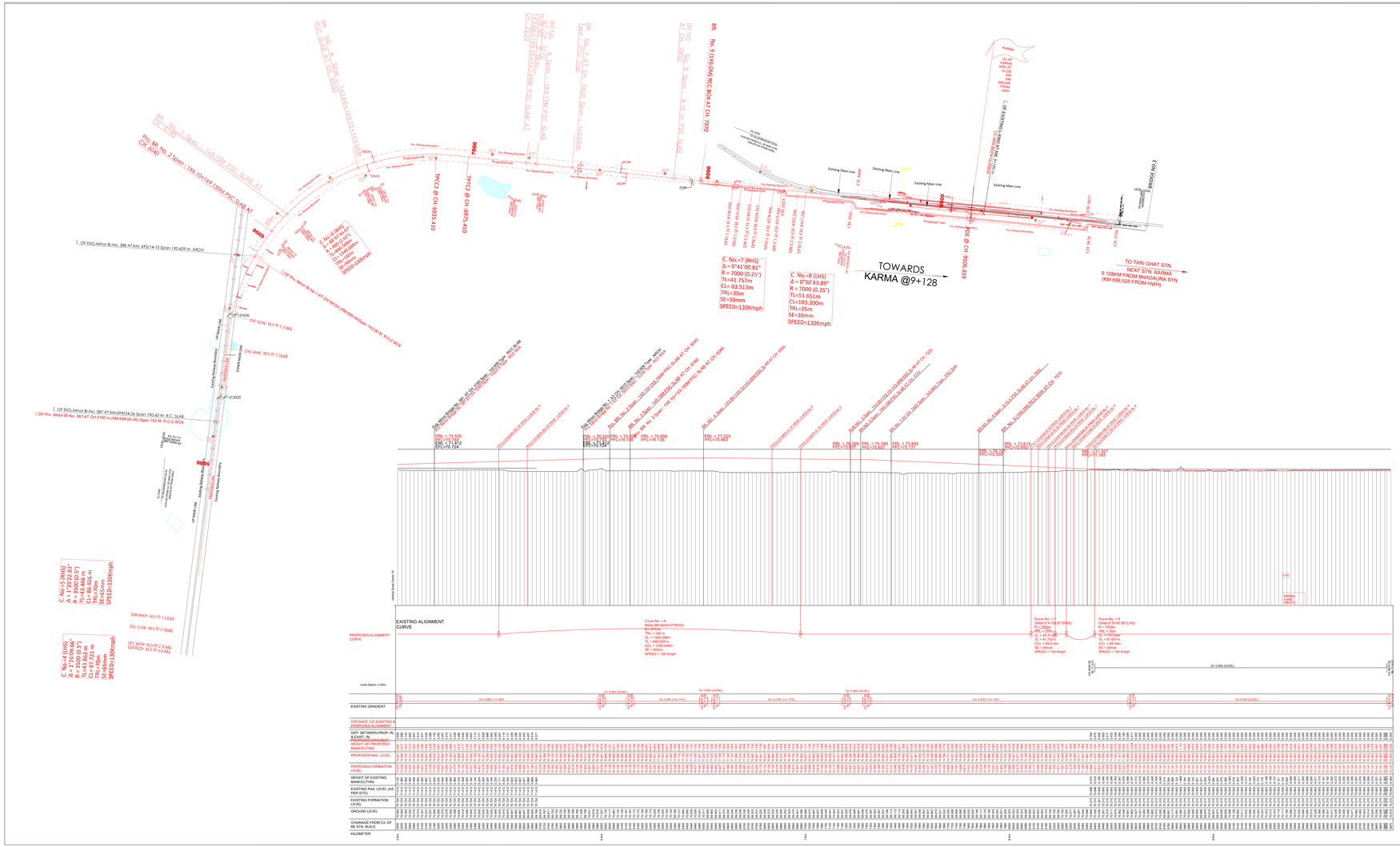

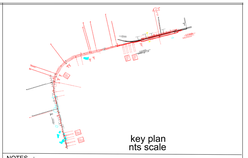

NOTES :-

1. ALL DIMENSIONS ARE IN METRE.
2. ALL LEVELS ARE IN METRE.
3. CENTRE LINE OF BHADAURA STATION BUILDING IS TAKEN AS CH:0.00 (KM:689.400).
4. RULING GRADIENT OF THE SECTION HAS BEEN KEPT AS 1 IN 1000 & PRO. 1 IN 200 (COMPENSATED).
5. EXISTING INDIAN RAILWAY LINES ARE SHOWN IN ERLACK.
6. EXISTING LINES ARE SHOWN IN ERLACK.
7. PROPOSED LINES ARE SHOWN IN RED.
8. VERTICAL CURVES SHALL BE PROVIDED IN THE FIELD DURING CONSTRUCTION ONLY ON THOSE POINTS OF CHANGE OF GRADE WHERE THE ALGEBRAIC DIFFERENCE BETWEEN THE GRADES IS EQUAL TO OR MORE THAN 4MM/M WITH MINIMUM RADIUS OF VERTICAL CURVE 2500M.
9. KM POSTS ARE SHOWN IN PLAN AND PROFILE AS PER SITE.
10. IN CUTTING SECTION ADEQUATE DRAINAGE FACILITY IS TO BE PROVIDED BY SIDE DRAINS.
11. IN DEEP CUTTING, CATCH WATER DRAINS OF ADEQUATE WATER CAPACITY ARE TO BE PROVIDED AS PER SITE CONDITION.
10. PROPOSED RAIL LEVEL SHOULD BE 702MM ABOVE FORMATION LEVEL FOR THE TRACK STRUCTURE ON 60 K.G NEW RAIL ON PSC SLEEPER(1660 PER K.M)WITH 300MM BALLAST CUSHION.
RAIL HEIGHT=172MM
SLEEPER=230MM
RUBBER PAD=10MM
BALLAST CUSHION=350MM
13. EXISTING FORMATION LEVEL MENTION IN L-SECTION IS AS-PER SURVEY DONE AT SITE

LEGEND

EXISTING BG CENTRE LINE	
PROPOSED BG CENTRE LINE	
EXISTING & PROPOSED TRACK CENTRE LINE	
PROPOSED LAND BOUNDARY	
EXISTING LAND BOUNDARY	
PROPOSED & EXISTING BRIDGE	
RIVER / NALA / CANAL	
PERMANENT STRUCTURE	
EXISTING BUILDING	
ROAD, CART TRACK	
POWER LINE WITH POLE	1 1
OHE POLE	
EMBANKMENT / BUND	
BODY AREA	
COMPOUND WALL	
DITCH / QUARRY	
BARBED WIRE FENCING	

DETAILS OF PROPOSED MINOR BRIDGES

SL.NO.	BR.NO.	KILOMETER	SPAN	TYPE	FORMATION LEVEL
1.	387	5180m	1X2.0m	R.C.C. BOX	73.793
2.	1	5910m	1x2.0m	R.C.C. BOX	75.793
3.	2	6040	1X6.10+1X9.15m	PSC SLAB	76.136
4.	3	6140m	1x9.15m	PSC SLAB	76.136
5.	6	7270m	1x6.15m	PSC SLAB	75.637
6.	7	7420m	1x3.66m	PSC SLAB	75.131
7.	8	7850m	1x9.15m	PSC SLAB	73.359

DETAILS OF PROPOSED ROAD UNDER BRIDGE

SL.NO.	BR.NO.	KILOMETER	SPAN	TYPE	FORMATION LEVEL
1.	4	6500	1X3.66+1X9.15+1X3.66m	PSC SLAB	76.463
2.	5	7220	1X3.66+1X9.15+1X3.66m	PSC SLAB	75.637
3.	9	7970	1x6.00m	R.C.C. BOX	72.852

DETAILS OF PROPOSED ROAD OVER BRIDGE

SL.NO.	BR.NO.	KILOMETER	SPAN	FORMATION LEVEL
1.	-	-	-	-

DETAILS OF PROPOSED LEVEL CROSSING

SL.NO.	LEVEL CROSSING NO.	KILOMETER	MANNED/UNMANNED
		NIL	

DETAILS OF VERTICAL GRADIENT

SL.NO.	FROM KM	TO KM	LEVEL/RISE/FALL
5.	5000	6000	RISE 1 IN 350
6.	6000	6140	LEVEL
7.	6140	6500	RISE 1 IN 1100
8.	6500	6560	LEVEL
9.	6560	7200	FALL 1 IN 775
10.	7200	7300	LEVEL
11.	7300	8600	FALL 1 IN 237
12.	8600	9870	LEVEL

DETAILS OF CURVE

SL.NO.	CURVE NO.	DEGREE OF CURVE	CHAINAGE (DPCV)	(PPCV)	(DPCD)	(PPCD)	RADIUS IN MTR.	TOTAL LENGTH OF CURVE	DEFLECTION ANGLE
1.	6	2.02	5495.962	5535.362	6605.415	6975.41	865.00	1340.046	89°45'43.07"
2.	7	0.25	8106.05	8141.051	8224.563	8224.563	7000.00	83.513	0°41'00.81"
3.	8	0.25	8278.646	8313.646	8417.246	8417.246	7000.00	103.300	0°50'43.89"

DRM/DNR	
SR.DEN(CO-ORD)/ENR	SAURABH MISRA — Digitally signed by SAURABH MISRA, Date: 2023.04.28 14:10:22 +05'30'
SR.DEN/III/DNR	SWATI RAJ — Digitally signed by SWATI RAJ, Date: 2023.04.25 17:04:26 +05'30'
DIVISION OFFICER'S	
CE/CON/GB/MHX	SUJEET KUMAR JHA — Digitally signed by SUJEET KUMAR JHA, Date: 2023.05.19 06:33:03 +05'30'
DY.CSTE/CON/DNR	Vivek Saurabh — Digitally signed by Vivek Saurabh, Date: 2023.05.01 10:51:56+05'30'
DY.CEE/CON/S/MHX	OM SHANKAR PRASAD — Digitally signed by OM SHANKAR PRASAD, Date: 2023.04.27 17:41:34 +05'30'
DY.CE/CON/DNR	RAJEEV KUMAR SINGH — Digitally signed by RAJEEV KUMAR SINGH, Date: 2023.06.12 13:11:25 +05'30'
XEN/C/GB/DNR	ARUN KUMAR — Digitally signed by ARUN KUMAR, Date: 2023.04.30 12:00:18 +05'30'
SSE/W/C/DNR	SHIV VIKASH — Digitally signed by SHIV VIKASH, Date: 2023.04.12 13:11:05 +05'30'
JE/DRG/C/DNR	ANIL KUMAR SINGH — Digitally signed by ANIL KUMAR SINGH, Date: 04.23.04.12 15:18:58 +05'30'

EAST CENTRAL RAILWAY

CONSTRUCTION OF PROP. LINE BETWEEN BHADAURA TO KARMA STATION HALT

GAUGE 1676 mm. **9.7 Km.**

TITLE : PROP. PLAN AND LONGITUDINAL SECTION
BHADAURA STATION TO KARMA STATION
FROM KM 5 TO KM 9.7

SCALE: VER-1:1000
HOR-1:5000

DY.CE/CON/DRG NO. 05-2023

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SHEET NO.