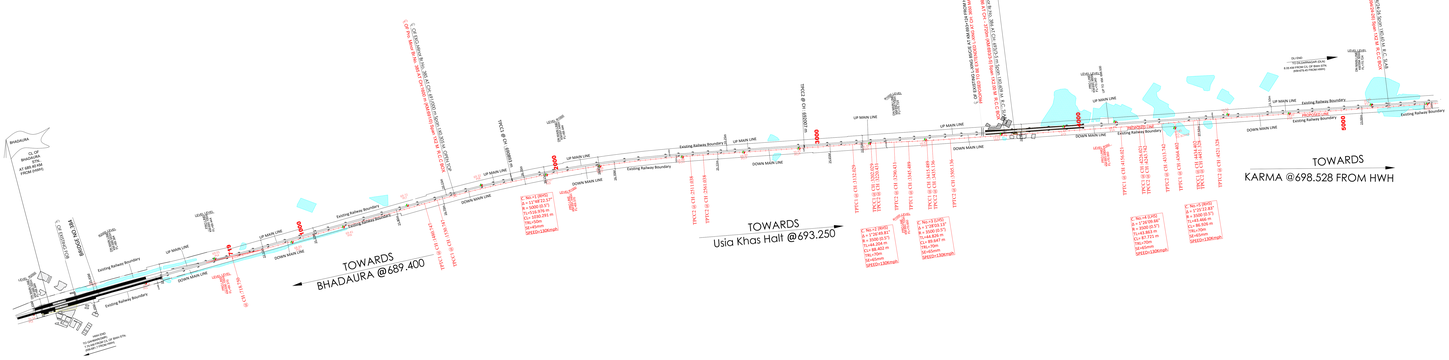

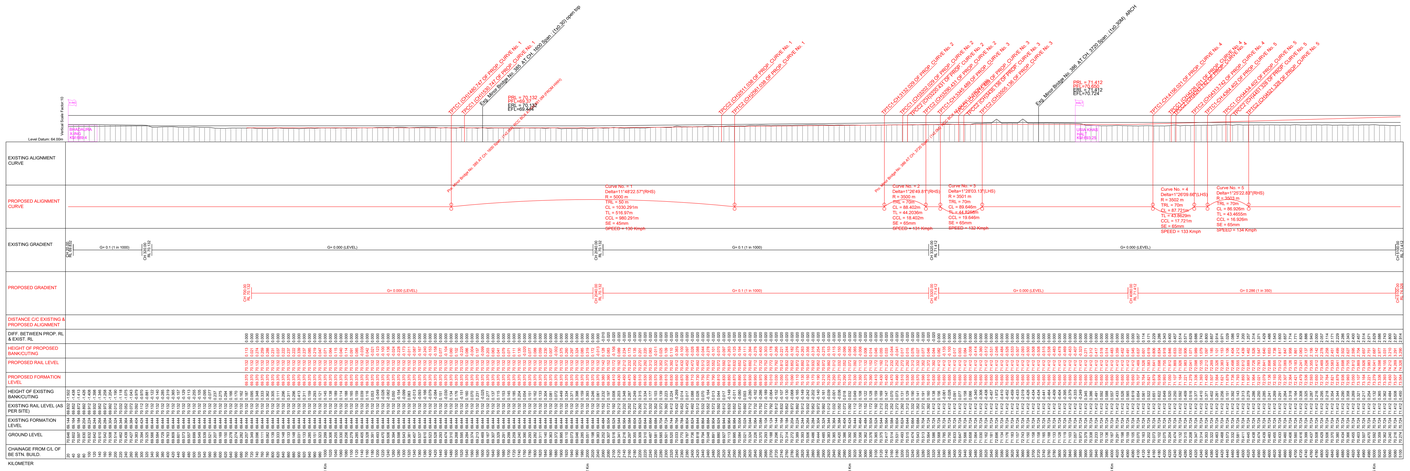

key plan
nts scale

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 223.(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 4MMM 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 700MM ABOVE FORMATION LEVEL FOR THE TRACK STRUCTURE ON 60 K.G.NEW RAIL ON PSC SLEEPER(1660 PER K.M)WITH 350MM 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 RESERVE ZONE	
LC	
PROPOSED LAND BOUNDARY	
EXISTING LAND BOUNDARY	
PROPOSED & EXISTING BRIDGE	
RIVER / NALA,CANAL	
PERMANENT STRUCTURE	
EXISTING BUILDING	
ROAD, CART TRACK	
POWER LINE WITH POLE	
CHE POLE	
EMBANKMENT / BUND	
ROCKY AREA	
COMPOUND WALL	
DITCH / QUARRY	
BARBED WIRE FENCING	

DETAILS OF PROPOSED MINOR BRIDGES

SL.NO.	BR. NO.	CH:	SPAN	FL
1.	385	1600m	1x2.0m	69.370
2.	386	3720m	1x2.00m	70.650

DETAILS OF VERTICAL GRADIENT

SL.NO.	FROM KM	TO KM	LEVEL/RISE/FALL
1.	0	700	LEVEL
2.	700	2040	LEVEL
3.	2040	3320	RISE 1 IN 1000
4.	3320	4080	LEVEL
5.	4080	5100	RISE 1 IN 350

DETAILS OF CURVE

SL.NO.	CURVE NO.	DEGREE OF CURVE	(TPKC1)	(TPKC1)	(TPKC2)	(TPKC2)	RADIUS IN MTR.	TOTAL LENGTH OF CURVE	DEFLECTION ANGLE
1.	1	0.35	1480.75	1530.747	2511.038	2561.04	5000	1030.291	11°48'22.57"
2.	2	0.50	3132.029	3202.029	3220.431	3290.431	3500	88.402	1°26'49.81"
3.	3	0.50	3345.489	3415.389	3435.136	3505.136	3500	89.647	1°28'03.13"
4.	4	0.50	4156.021	4226.021	4243.742	4313.742	3500	87.721	1°26'09.66"
5.	5	0.50	4364.402	4434.402	4451.328	4521.328	3500	86.926	1°25'22.83"

DETAILS OF EXISTING LEVEL CROSSING

SL.NO.	LEVEL CROSSING NO.	KILOMETER	MANNED/UNMANNED
1.	85	693.124	MANNED

INFRINGEMENT DETAILS

SL.NO.	ITEM OF INFRIGMENT	CH OF S.O.D	LOCATION	DETAILS OF INFRIGEMENT
1.	85	3650	693.124	GATE LODGE
2.	USIA KHAS HALT & P/F-1	3736	693.21	USIA KHAS HALT & P/F-1

DRM/DNR		
SR.DEN/CO.ORD/DNR	SAURABH MISRA	Digitally signed by SAURABH MISRA Date: 2023.04.28 14:10:23 +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 06:32:02 +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 17:41:39 +05'30'
DY.CE/CON/DNR	RAJEEV KUMAR SINGH	Digitally signed by RAJEEV KUMAR SINGH Date: 2023.04.13 15:11:25 +05'30'
XEN/C/GB/DNR	ARUN KUMAR	Digitally signed by ARUN KUMAR Date: 2023.04.13 12:02:18 +05'30'
SSE/W/C/DNR	SHIV VIKASH	Digitally signed by SHIV VIKASH Date: 2023.04.12 13:11:01 +05'30'
JE/DRG/C/DNR	ANIL KUMAR SINGH	Digitally signed by ANIL KUMAR SINGH Date: 2023.04.12 11:16:58 +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 1 TO KM 5

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

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

1/2

SHEET NO.