

## Comparative Statement of Four Alternative Routes

### NORTH WESTERN RAILWAY

**Feasibility Report for the proposed new B.G. Line Project between Taranga Hill - Abu Road via Ambaji in Gujarat & Rajasthan State.**

To find out a suitable B.G. Standard Railway corridor in between Taranga Hill - Abu Road via Ambaji in Gujarat & Rajasthan State have been Examined.

Comparative statement of four Routes have been given below :-

Sl. No.	Description	Unit	Alignment-I	Alignment-II	Alignment-III	Alignment-III A	Remarks
1	Route Length	Km.	112.953	108.495	133.088	115.769	
2	Ruling Gradient	m.	150 (C)	150 (C)	150 (C)	100 (C)	
	Existing Yard	m.	400	400	400	400	
	Proposed Yard (New)	m.	1200	1200	1200	1200	
3	Curve	No.	66	70	81	79	
	Deg. Of Curve (Maximum)	°	4	4	4	4	
	Curve Length	Km.	43.496	41.013	47.029	38.191	
	% Of Curve Length	%	38.508	37.802	35.337	32.989	
4	Important	No.	2	2	2	1	
	Major	No.	52	61	64	44	
	Minor	No.	82	69	84	94	
	Viaduct	No.	1	2	2	1	
	Railway Fly Over	No.	0	0	0	0	
	RUB	No.	15	14	15	12	

		ROB	No.	10	9	16	17	
		<b>Total Bridges =</b>	No.	<b>162</b>	<b>157</b>	<b>183</b>	<b>169</b>	
5	<b>Tunnel No.</b>		No.	<b>12</b>	<b>8</b>	<b>13</b>	<b>9</b>	
	Tunnel Length		Km.	<b>4.470</b>	<b>6.351</b>	<b>11.180</b>	<b>7.675</b>	
	Longest Tunnel Length		m.	1485	1485	1690	1600	
	% Of Tunnel Length		%	<b>8.289</b>	<b>5.854</b>	<b>8.400</b>	<b>6.630</b>	
6	<b>Station (New)</b>		No.	<b>13</b>	<b>14</b>	<b>15</b>	<b>13</b>	
7	<b>Alignment in</b>	Mixed Jungle	Km.	<b>17.500</b>	<b>18.400</b>	<b>32.176</b>	<b>29.590</b>	
		Reserved Forests	Km.					
		Protected Forests	Km.					
		<b>Wild Life Sanctuaries</b>	Km.	<b>31.450</b>	<b>41.150</b>	0.000	0.000	
		<b>Total Forests =</b>	Km.	<b>48.950</b>	<b>59.550</b>	<b>32.176</b>	<b>29.590</b>	
8	Existing Level Crossing		No.	0	0	0	0	
9	NH Crossing		No.	1	1	1	1	
10	SH Crossing		No.	4	3	3	9	
11	MDR, Village Road Crossing		No.	8	10	18	10	
12	River Crossing		No.	3	2	3	6	
13	Existing Railway Line Crossing		No.	0	0	1	1	
14	Filling Quantity		Cum	1,800,522.000	1,201,523.000	400,523.000	390,523.000	
15	Cutting Quantity		Cum	6,584,487.135	3,104,487.000	5,525,300.000	5,025,300.000	
16	Land Required		Hect.	483.200	371.050	496.000	456.000	
17	<b>Comparative Cost per Km. (Approx.)</b>		Crore	<b>29.29</b>	<b>23.96</b>	<b>25.81</b>	<b>22.17</b>	