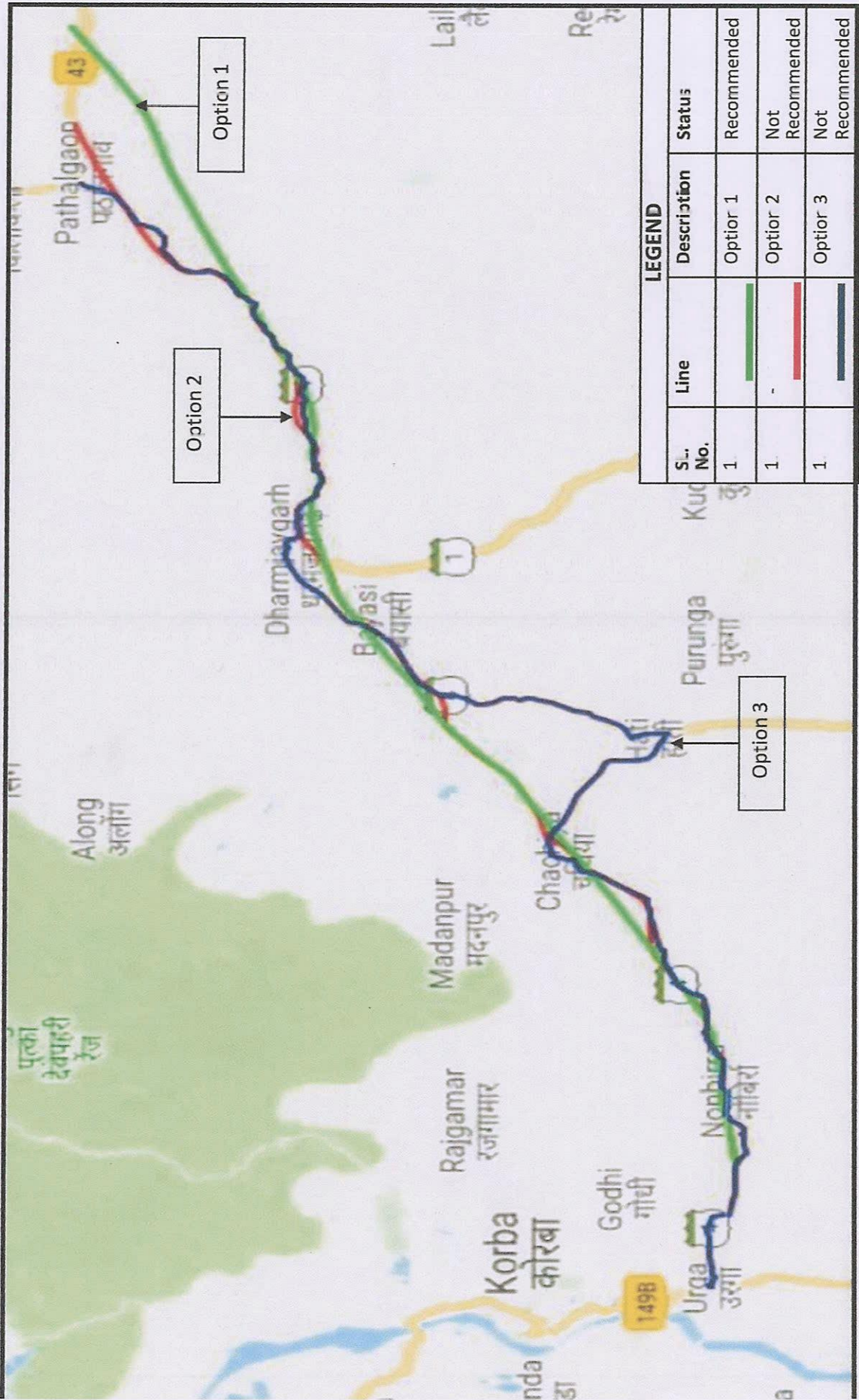




Analysis of Alternatives

Three alternative options were considered for the project.



PROJECT DIRECTOR
NHAI, PIU, KORBA (C.G.)

Analysis of Alternatives

S. No	Description	Option I	Option II	Option III
1.	Length (Km.)	87.545 (approx.)	84.398 (approx.)	97.078 (approx.)
2.	Start point	Alignment starts at Chitapali village at ch. 8/150 of SH-04	Alignment starts at Chitapali village at ch. 8/150 of SH-04	Alignment Starts at SH 9 near Urga village
3.	End point	Alignment terminates at Turua Ama village, 10km away from Pathalgaon along NH-43 towards Jharkhand border.	Alignment terminates at Turua Ama village, 10km away from Pathalgaon along NH-43 towards Jharkhand border.	Alignment terminates at Ambikapur Highway, Pathalgaon
4.	Districts	Korba, Raigarh and Jashpur	Korba, Raigarh and Jashpur	Korba, Raigarh and Jashpur
5.	Connecting Highways	NH43 SH4	NH43 SH4	NH43 SH4
	Lane Configuration	4L PS	4L PS	4L PS
6.	Proposed Right of Way (m)	60	60	60
7.	Ex. Right of Way (m)	Greenfield alignment, therefore Nil	Greenfield alignment, therefore Nil	10 mtrs
8.	Approx Travel Time	2 hrs 6 minutes	2 hrs 20 Mins	2 hrs 45 Mins
9.	No of NH crossings	1	1	1
10.	No of SH crossings	1	1	1
11.	Features	Underpasses 29	Underpasses 57	Underpasses 64
		Flyover 1,	Flyover 1	Flyover 3
		Elephant underpasses - 12 nos		
		Major Bridge 7	Major Bridge 7	Major Bridge 6
		Minor Bridge 22	Minor Bridge 27	Minor Bridge 20
		Overpasses - 6 nos.		
12.	Number of settlements shall be affected	5	7	43
13.	Length of proposed road along the settlements (Km.)	0.3	0.7	12

Analysis of Alternatives



S. No	Description	Option I	Option II	Option III
14.	Affected Forest Area (Ha)	169.0231 (approx.)	188 (approx.)	210 (approx.)
15.	Land Acquisition (Ha)	516.921	738.171	927.89
16.	Land Acquisition Cost (Cr.)	641	622	1190
17.	Eco-sensitive/Protected Area	None	None	None
18.	Merits	1. Major part of the alignment passing through the agricultural and barren land with patches of Forest		
		2. No ESZ areas in the RoW		
		3. The forest area is less than Option 3.	3. The forest area is less than Option 3.	
		1. Least Pollution Envisaged		
		2. Shortest Distance. Hence least time required for commuting.		
19.	Demerits	3. Least land to be Acquired		
		4. Least number of settlements to be affected		
		5. Least number of Sensitive Features		
		1. Maximum number of bridges proposed	1. Maximum number of Sensitive Features	
			2. Maximum forest Area	
			3. Maximum Land to be acquired	
			4. Maximum Settlements to be affected.	