

BHAGALPUR DISTRICT

Project name- Rehabilitation and Up gradation of 2–lane with Paved Shoulders configuration of NH-133E from Bhagalpur to Baljhor Basti (Bihar & Jharkhand state border) In the state of Bihar on EPC mode.

Proposal No.- FP/BR/ROAD/54736/2020

Date – 09.11.2020

Details of alternate alignment study

S.No	Parameters/Issues	Option 1 (Proposed Alignment)	Option 2	Remarks
1	Length km	47.775	48.485	
2	Total land acquired ha	10.6659	145.455 Ha	The crossings point of roads / railway / canal), the proposed project will also fall in notified protected forest areas declared for management purposes. The forest proposal shall be prepared after consultation with concern Divisional forest officer if it attracts FC under section 2, 1980.
	Govt. land (ha)	Nil	Nil	
	Pvt. Land (ha)	10.6659	144.207 Ha	
	Forest land (ha)*	33.7452	1.248	We are upgrading the existing State Highway 19 to the National highway NH 133E, Road side plantation along the project road which is declared as Protected Forest land will be impacted

S.No	Parameters/Issues	Option 1 (Proposed Alignment)	Option 2	Remarks
				due to the proposed widening work. Other alternative involved the more land acquisition
3	Area under protected/ important or sensitive species of flora or fauna/wildlife Sanctuary	Nil	Nil	The major tree species found are Sisam, Gulmohar, Sagwan, Kahua.
4	No. of Trees	3636	2987	
5	Impact on Flora and Fauna	Major Impact on trees as 3636 trees are coming along the green field alignment	Impact is less as compared to the other option	
6	Area under water bodies (ha)	3.78	5.23	
7	No. of Structure	100	120	
8	No. of Families	111	560	
9	No. of structure to be constructed	i. ROB = 01 ii. Major Bridges = 1 iii. Minor Bridges = 18 iv. Culverts = 80	i. ROB = 1 ii. Major Bridges = 02 iii. Minor Bridges = 22 iv. Culverts = 95	

S.No	Parameters/Issues	Option 1 (Proposed Alignment)	Option 2	Remarks
10	Connectivity	The Project Road links the NH-80(New NH-33) , NH-333A and SH-17 of Jharkhand State. The Project Road provide the connectivity of tourist place known as Mandar Hills Kuppa Ghat, Tillha Kothi & it provides better connectivity from Sultanganj (28 km west from Bhagalpur) to Deogarh (Holy Place specially known for Baidyanath Temple) via Bhagalpur, Jagdishpur, Rajoun, Bounsi.		
11	Project Cost (Cr.)	693.93	1125.93	



Based on the above study the following observations are there: -

1. Option 1 requires 10 ha of land for acquisition which is very less as compared to the option 2 which requires 145 Ha of land. Impact of Flora and Fauna is more as compared to the other option.
2. In Option 2, number of structures to be constructed and number of families affected is more than the Option-1.

Due to higher land acquisition in option-2, the total project cost increases. Hence, Option-1 is followed.

PLACE-BHAGALPUR

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 M.K PANDEY
 EXECUTIVE ENGINEER
 N.H DIVISION
 BHAGALPUR


BANKA DISTRICT

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Proposal No.- FP/BR/ROAD/54736/2020

Date – 09.11.2020

Details of alternate alignment study

S.No	Parameters/Issues	Option 1 (Proposed Alignment)	Option 2	Remarks
1	Length km	11.735	11.700	
2	Total land acquired ha	0.8011	35.1 Ha	The crossings point of roads / railway / canal), the proposed project will also falls in notified protected forest areas declared for management purposes .The forest proposal shall be prepared after consultation with concern Divisional forest officer if it attracts FC under section 2, 1980.
	Govt. land (ha)	Nil	Nil	
	Pvt. Land (ha)	0.8011	34.794	
	Forest land (ha)*	12.8396	0.216	We are upgrading the existing State Highway 19 to the National highway NH 133E ,Road side plantation along the project road which is declared as Protected Forest land will be impacted due to

S.No	Parameters/Issues	Option 1 (Proposed Alignment)	Option 2	Remarks
				the proposed widening work. Other alternative involved the more land acquisition
3	Area under protected/ important or sensitive species of flora or fauna/wildlife Sanctuary	Nil	Nil	The major tree species found are Sisam, Gulmohar, Sagwan, Kahua.
4	No. of Trees	1347	1450	
5	Impact on Flora and Fauna	Impact is less as compared to the other option	Major Impact on trees as 1450 trees are coming along the green field alignment	
6	Area under water bodies(ha)	0.9	1.2	
7	No. of Structure	29	34	
8	No. of Families	68	112	
9	No. of structure to be constructed	i. ROB = Nil ii. Major Bridges = 2 iii. Minor Bridges = 5 iv. Culverts = 22	i. ROB = 01 ii. Major Bridges =03 iii. Minor Bridges =4 iv. Culverts = 26	
10	Connectivity	The Project Road links the NH-80(New NH-33) , NH-333A and SH-17 of Jharkhand State. The Project Road provide the connectivity of tourist place known as Mandar Hills Kuppa Ghat ,Tillha Kothi.& it provides better connectivity from Sultanganj (28 km west from Bhagalpur) to Deogarh(Holy Place specially known for Baidyanath Temple) via Bhagalpur,Jagdishpur, Rajoun, Bounsi.		

S.No	Parameters/Issues	Option 1 (Proposed Alignment)	Option 2	Remarks
11	Project Cost(Cr.)	693.93	798.93	

Based on the above study the following observations are there:-

1. Option 1 requires 0.8 ha of land for acquisition which is very less as compared to the option 2 which requires 35 Ha of land. Impact of Flora and Fauna is less as compared to the other option.
2. In Option 2 , structures to be constructed more as compared to the option 1. Number of families affected is more than the option 1. Due to the maximum Land acquisition in option 2 , the project cost increases.

Therefore, if option 2 is followed, it will leads to more impact on the total project cost, hence option 1 is followed

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