Details of Alternate Alignment Study for the Project Highway - NH-119D - Pkg-IV [Kalyanpur (Km - 0+000) to Tal Dashraha (Km - 47+500)]

23	22	21	20	19	18	17	16	15	14	13	12	Ξ	10	9	8	7	6	S	4	w	2	=	S. No.
	Merit and Demerits						Structure(s)	Existing /					Social and Environmental							Road Features			Description
Demerits	Merits	ROB	SVUP	LVUP	VUP	VOP	Minor Bridge	Major Bridge	Elevated Structure	Trumpet/Fly-Over	Forest Land (Ha)	Loss in Agricultural Land	Area sensitive of flora or fauna /Wildlife Sanctuary	Built-Up section	Cost of Land Acquisition	Land to be Acquired	Expected Traffic (PCU)	Network Connectivity	Geometric Features	Length of Green Field	Length of Existing Road	Total Length including spur	
R&R cost is very high	Traffic can move fast throughout as this is analmost straight alignment Length of highway is shorter than existinghighway. Very less R & R cost.	-	15 Nos.	05 Nos.	07 Nos.	Nii	05 Nos.	02 Nos.	Z	04Nos.	4.2	Yes	None	Less built-Up section	319.64 Cr. (approx.)	277.54 Ha (approx.)	11000 PCU (Preliminary Traffic estimates)	Kalyanpur to Tal-Dasraha	a) Will provide adequate design Speed.b) Congestion free Traffic Movement inside City	42+500 Kms	0.000 Km	42+500 Kms	Remarks (Option-1)
Manger Tech	Traffic can move fast throughout as this is an almoststraight alignment Length of highway is shorter than existing highway.	-	15 Nos.	05 Nos.	05 Nos.	Z	06 Nos.	02Nos.	Z	04 Nos.	3.042	Ycs	None	Building will be demolished	344.13 Cr. (approx.)	304.54 Ha (approx.)	Traffic estimates)	Kalyanpur to Tal-Dasraha	a) Will provide adequate design Speed. b) Congestion free Traffic Movement inside City	49+500 Kms	0.000 Km	49+500 Kms	Remarks (Option-2)
R&R cost is very high	Amount of Land required for Acquisition is more than other two options, and consequently total LA cost is higher than the LA cost of other two options. Total civil cost is more than option -2	I (Proposed)	15 No. (Proposed)	06 No. (Proposed)	06 No. (Proposed)	Z	07 Nos.	03 Nos. (Proposed)	Z	04 Nos.	3.5	Yes	None	Buildings will be affected	325.53 Cr. (approx.)	279.34 Ha (approx.)	10000 PCU (Preliminary Traffic estimates)	Kalyanpur to Tal-Dasraha	a) Will provide adequate design Speed. b) Congestion free Traffic Movement inside City	42+800 Kms	0.000 Km	42+800 Kms	Kemarks (Option-3)

25.320 Cr/Km	24.81Cr/Km	23.489 CI/Km	Project Cost/km		
dden in an ingan		25 700 27 70		Cost	28
1083 712Cr (Approx)	1165.54 Cr. (Approx.)	1083.288 Cr. (Approx.)	Total Project Cost	Total Flogett	700
201.001.10		1000 000 0		Total Project	27
967 6 (r (Approx)	1040.96.Cr.	966.99 Cr. (Approx.)	rotal Civil Cost		1983
					26
253.92 Cr. (Approx.)	285.54 Cr (Approx.)	261.92 Cr (Approx.)	Cost of Structure(s)		
		2000	3	Courses action Cost	25
388.15 (r (Approx.)	408.54 Ct (Approx.)	386.43 Cr (Approx.)	Cost of Road Work	Construction Cost	

- Based on the above study the following observations are there:Option 1 and 3 leads to more impact on structure and families as number affected families are high as compared to option 2.
 If alignment option 1 or 3 is followed then it will leads to more impacts on Environment & Social components, hence Option 2 is followed.

