Attachement 2.4

Performa for comparison between identified alignments

SI. No	Variables	A	Alignment No-1		Alignment No-2				
1	Topography	Mountainous					Mountaine	NU5	
2	Length of Road	0.70 Km.					1.00 Km	4	
3	Bridging requirement No. and Length	Nil				Nil			
4	Geometric								
_	(a) Gradients		1:20	1:18					
	(b) Curves, H.P Bends		1 No.	1 No.					
2	7		Mule Pa	Mule Path					
5	Existing Means of communication, mule path, jeep, Tracks etc.	Mule Path				50000000000000000000000000000000000000			
6	Right of way, bringing out.		y is availabl			Right of way	y is available	e for car	rying out
	construction on account of built		tion work.				tion work. 1		
	up areas, monuments and other		onuments or				onuments or		
	structures.	structu	res along th	is alignm	ent.	structures along this alignment.			
7	(a) Terrain & Soil Condition.	Hilly and soi				Hilly and soil is a mix of Earth & Boulders, Soft Rock and Hard Rock.			
		Soft	Rock and H	ard Rock	ζ.				
	(b) Cliffs and gorges.		None			None			
	(c) Drainage characteristics of	The natural	drainage ch	aractersti	ics of the	The natural drainage characteristics of the			
	the area including supceptibility	area is good	and there is	no suscep	otibility to	area is good and there is no susceptibility to flooding.			
_	to flooding.	ees .	flooding l elevation o	Enned is	1940 m	The general elevation of road is 1840 m the elevation of the starting point of the			
	(d) General elevation of the road	The genera	on of the sta	erina noi	nt of the				
	indicating maximum and	110000000000000000000000000000000000000							
	minimum height negotiated by main ascends and discends.	road is 1795 m. & the elevation of the end point of the road is 1885 m. Thus the road				point of the			
	main ascends and discends.	achive the hight of 90 m.					ive the high		
	(e) Variations extants and types.	Variable of		Variable		Variable of		Variable	
	(e) variations extants and types.	TO STEE ALL OUTSIDES AND TO THE RESTORATION OF THE PARTY	age of the		Obtained	the	age of the		Obtain
		Habitation				Habitation	variable		d
		Population	8	631	8	Population	8	631	8
-		SC/ST	8	127	4	SC/ST	8	127	4
		Population	200	1.09.7953		Population			_
		Primary	4	Yes	0	Primary	4	Yes	0
		School			V	School			-
		Middle	6	No	0	Middle	6	No	0
		School			-	School	8	No	0
		High	8	No	0	High School	0	140	"
	,	School	8	Yes	8	Intermediat	8	Yes	8
		Intermediat	٥	Tes		e School		1.7.	2,551
_		e School Voacationa	8	No	0	Voacationa	8	No	0
		1 School		1.55		1 School			
		Dispensary	4	No	0	Dispensary	4	No	0
_		Maternity	6	No	0	Maternity	6	No	0
		& Chile	1			& Chile			
	1	Welfare			1	Welfare			1
	/*	Centers				Centers			_
		Primary	8	No	0	Primary	8	No	0
	1	Health				Health			
	1	Centre &	-1		1	Centre &	1	1	1
				1		Veterinary		II.	

SI. No	Variables	Alignment No-1				Alignment No-2				
		Police Station	ti	No	0	Police Station	6	No	0	
+		Post Office	4	No	0	Post Office	4	No	0	
- 0		Electrified	6	Yes	6	Electrified	6	Yes	6	
		Panchayat Head Office	6	No	0	Panchayat Head Office	6	No	0	
		No. of days Market Held	6	No	0	No. of days Market Held	6	No	0	
-		Hilly Area	- 4	Yes	4	Hilly Area	4	Yes	4	
-		Total	100	1	30	Total	100		30	
8	Climate Condition:	10121	100						0,000	
0	(a) Temperature Monthly max. & min. reading.	Month			rature (in	Month		Temperature (in		
_	a. min. reading.	Í		Max	Min	1		Max	Min	
		Janua	ary	20	7	Janua	агу	20	7	
		Febru	ary	23	9	Febru	ary	23	9	
		Mar	ch	27	13	March		27	13	
		Apr	April		18	April		33	18	
		Ma	May		21	May		36	21	
		June		34	23	June		34	23	
		July		31	24	July		31	24	
_		August		30	23	Augu	ust	30	23	
_		Septer		30	21	Septen		30	21	
		Octo	ber	29	17	Octo	ber	29	17	
		Nover	nber	26	12	Novem	nber	26	12	
_		Decen	nber	22	8	Decen	nber	22	8	
	(b) Rainfall data average annua peak intensities monthly distribution (to the exten- available).			Average Rainfall Data (in mm)					in mm)	
		January		74		January		74		
		February			63	February		63		
		March			63	March		63		
		April			25	April		25		
	1	May			48	May		48		
		June			68	June		168		
		Jul			889	July		389		
		Aug	ust			August		309		
		Septer				September		174		
		Octo	October		83	October		83		
		November			9	November		9		
		December			30	December			30	
	(c) Snowfall data average annua peak intensities monthly distribution (to the exten- available)	and February there are little chaces of			naces of	and February there are little chaces of				

SI. No	Variables	Alignment No-1				Alignment No-2				
	(d) Wind direction and velocities.	Owing to the nature of terrian local affect are pronounced and when the general prevailing winds not too strong to mask these effect there is a tendency for diurnal reversal of winds the flow being anabatic during the day and katabatic at night the latter being of considerable force				reversal of winds the flow being anabatic during the day and katabatic at night the				
	(e) Fog Condition.	Generally t area H Decem	here are no sowever duri ber and Janu prevail duri sky in th	fog condit ng the mo ary slight ng night,	ions in the nth of foggy	latter being of considerable force Generally there are no fog conditions in the area However during the month of December and January slight foggy conditions prevail during night, with clear sky in the day				
	(f) Exposure to sun.	The site is	exposed to	sun throu	ghout the	The site is	exposed to	sun throu	ghout the	
	(g) Unusual weather condition like cloud brust etc.	There is no record of unusual weather condition like cloud burst in the area where the site is located				There is no record of unusual weather condition like cloud burst in the area where the site is located				
9	Facilities resources.									
	(a) Landing ground.		Non	e		None				
	(b) Dropping Zone.		None				None			
	(c) Food stuffs.	P	atato, Rajm	a, Walnut		Patato, Rajma, Walnut				
	(d) Labour local availability and	Local labou	r is availabl	e for cons	truction of	f Local labour is available for construction of work				
	need for import.		worl				of wo	rk		
	need for import. (e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved.	shall be made otained for sand and st construction	ired for the	construct locally as cutting. I crit) requir	it shall be lowever ed for the	shall be made of the stand and stand construction	of wo aired for the ade available form hill sid one chips (g on work shall the approved	construct e locally a le cutting, rit) requir l be procu	as it shall However red for the	
10	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved. Value of land, agricultural land, Irrigated land, bult up land,	shall be made ottained for sand and st construction	uired for the de available orm hill side one chips (g on work shal	construct locally as cutting. I grit) requir Il be procu d quarry.	it shall be lowever red for the ured from	shall be made of the stand and stand construction	uired for the ade available form hill side one chips (gon work shal	construct e locally a le cutting, rit) requir l be procu d quarry.	as it shall However red for the ired from	
10	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved.	shall be made ottained for sand and st construction	uired for the de available orm hill side one chips (g on work shal the approve	construct locally as cutting. I grit) requir Il be procu d quarry.	it shall be lowever red for the ured from	shall be m be otained sand and st construction	aired for the ade available form hill side one chips (gon work shall the approved	construct e locally a le cutting, rit) requir l be procu d quarry.	as it shall However red for the ured from	
10	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved. Value of land, agricultural land, Irrigated land, bult up land,	shall be made otained for sand and st construction of the private Land	uired for the de available orm hill side one chips (g on work shal the approved 0.000 Ha.	construct locally as cutting. I crit) requir Il be procu d quarry.	it shall be However red for the ured from	shall be made of the object of	uired for the ade available form hill side one chips (gon work shall the approved 0.000 Ha.	construct e locally a de cutting, rit) requir l be procu d quarry.	as it shall However red for the ured from	
10	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved. Value of land, agricultural land, Irrigated land, bult up land,	shall be made otained for sand and stonstruction of the construction of the constructi	pired for the de available orm hill side one chips (gon work shalthe approved 0.000 Ha. 0.708 Ha. 0.000 Ha.	construct locally as cutting. I trit) required the procuded quarry. @ 20.00 @ 9.35 @ 9.35	it shall be However red for the ured from 0.00 6.62 0.00	shall be more be otained sand and stoconstruction in Private Land Civil Land Reserve	aired for the ade available form hill side one chips (gon work shall the approved 0.000 Ha.	construct e locally a le cutting, rit) requir l be procu d quarry. @ 20.00	However red for the ured from 0.00	
10	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved. Value of land, agricultural land, Irrigated land, bult up land, forest land etc.	shall be made otained for sand and stonstruction. Private Land Civil Land Reserve Land Van Panchayat Total van	uired for the de available orm hill side one chips (gon work shalthe approved 0.000 Ha. 0.708 Ha. 0.000 Ha.	construct locally as cutting. I grit) required the proceed quarry. @ 20.00 @ 9.35 @ 9.35 @ 9.35 (in Lakh)	it shall be However red for the ured from 0.00 6.62 0.00	shall be me be otained sand and struction in Private Land Civil Land Reserve Land Van Panchayat	dired for the ade available form hill side one chips (gon work shall the approved 0.000 Ha.	construct e locally a le cutting. rit) requir l be procut d quarry. @ 20.00 @ 9.35 @ 9.35 @ 9.35	as it shall However red for the ured from 0.00 10.29 0.00	
11	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved. Value of land, agricultural land, Irrigated land, bult up land, forest land etc. Approximate Const. Cost.	shall be made otained for sand and stoconstruction. Private Land Civil Land Reserve Land Van Panchayat Total van 0.700 Km.	uired for the de available orm hill side one chips (gon work shalthe approved 0.000 Ha. 0.708 Ha. 0.000 Ha. 0.000 Ha. due of Land	construct locally as cutting. I prit) required quarry. @ 20.00 @ 9.35 @ 9.35 @ 9.35 (in Lakh) 32.62	it shall be However red for the ured from 0.00 6.62 0.00 0.00	shall be me be otained sand and struction in Private Land Civil Land Reserve Land Van Panchayat Total van 1.000 Km.	ired for the ade available form hill side one chips (gon work shall the approved 0.000 Ha. 1.100 Ha. 1.000 Ha. 1.000 Ha. 1.000 Ha.	construct e locally a le cutting. rit) requir l be procud quarry. a 20.00 a 9.35 a 9.35 a 9.35 (in Lakh) 46.60	as it shall However red for the ured from 0.00 10.29 0.00 10.29 Lakh	
	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved. Value of land, agricultural land, Irrigated land, bult up land, forest land etc.	shall be made otained for sand and stonstruction. Private Land Civil Land Reserve Land Van Panchayat Total van 0.700 Km. Access po	uired for the de available orm hill side one chips (gon work shalthe approved 0.000 Ha. 0.708 Ha. 0.000 Ha.	construct locally as cutting. If the procud quarry. @ 20.00 @ 9.35 @ 9.35 @ 9.35 (in Lakh) 32.62	it shall be However red for the ured from 0.00 6.62 0.00 0.00	shall be me be otained sand and struction in Private Land Civil Land Reserve Land Van Panchayat Total van 1.000 Km.	ired for the ade available form hill side one chips (gon work shall the approved 0.000 Ha. 1.100 Ha. 1.000 Ha. 1.000 Ha.	construct e locally a le cutting. rit) requir l be procu d quarry. @ 20.00 @ 9.35 @ 9.35 @ 9.35 (in Lakh) 46.60 e for indu	as it shall However red for the ured from 0.00 10.29 0.00 10.29 Lakh	
11	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved. Value of land, agricultural land, Irrigated land, bult up land, forest land etc. Approximate Const. Cost. Access point indicating possibility of induction of	shall be made otained for sand and stonstruction. Private Land Civil Land Reserve Land Van Panchayat Total van 0.700 Km. Access po	uired for the de available orm hill side one chips (gon work shalthe approved 0.000 Ha. 0.708 Ha. 0.000 Ha. 0.000 Ha. due of Land @ 46.60	construct locally as cutting. I prit) required be procuded quarry. @ 20.00 @ 9.35 @ 9.35 @ 9.35 (in Lakh) 32.62 de for indument.	it shall be However red for the ured from 0.00 6.62 0.00 0.00	shall be me be otained sand and struction in Private Land Civil Land Reserve Land Van Panchayat Total van 1.000 Km.	ired for the ade available form hill side one chips (go mork shall the approved 0.000 Ha. 1.100 Ha. 1.100 Ha. 1.000 Ha. 1.000 Ha. 1.000 Ha. 1.000 Ha. 1.000 Ha.	construct e locally a le cutting. rit) requir l be procuding a 20.00 @ 9.35 @ 9.35 @ 9.35 (in Lakh) 46.60 e for induent.	as it shall However red for the ured from 0.00 10.29 0.00 10.29 Lakh	
11 12	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved. Value of land, agricultural land, Irrigated land, bult up land, forest land etc. Approximate Const. Cost. Access point indicating possibility of induction of equipment.	shall be made otained for sand and struction of sand and struction of the sand	uired for the de available orm hill side one chips (gon work shalthe approved 0.000 Ha. 0.708 Ha. 0.000 Ha. 0.000 Ha. due of Land @ 46.60 oint available equipm	construct locally as cutting. I erit) required be procuded quarry. @ 20.00 @ 9.35 @ 9.35 @ 9.35 (in Lakh) 32.62 be for indusent. ths	it shall be However red for the ured from 0.00 6.62 0.00 0.00 Lakh ction of	shall be me be otained sand and struction in Private Land Civil Land Reserve Land Van Panchayat Total va 1.000 Km. Access po	ired for the ade available form hill side one chips (gon work shall the approved 0.000 Ha. 1.100 Ha. 1.100 Ha. 1.000 Ha. 1.000 Ha. 1.000 Ha. 1.000 Ha. 1.000 Ha.	construct e locally a le cutting. rit) requir l be procu- d quarry. @ 20,00 @ 9,35 @ 9,35 @ 9,35 (in Lakh) 46.60 e for indu- ent. ths d manpov- nachinery	as it shall However red for the ured from 0.00 10.29 0.00 10.29 Lakh ction of	
11 12 13	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved. Value of land, agricultural land, Irrigated land, bult up land, forest land etc. Approximate Const. Cost. Access point indicating possibility of induction of equipment. Period required for construction.	shall be made otained for sand and struction of sand o	ired for the de available orm hill side one chips (gon work shalthe approved 0.000 Ha. 0.708 Ha. 0.000 Ha. 0.000 Ha. 0.000 Ha. due of Land @ 46.60 oint available equipment of skille equipment/ment of skille equipment/ment/ment of skille equipment/ment/ment of skille equipment/ment/ment of skille equipment/ment/ment/ment/ment/ment/ment/ment/	construct locally as cutting. I prit) required be procuded quarry. @ 20.00 @ 9.35 @ 9.35 @ 9.35 (in Lakh) 32.62 In the form industrial connection of the price of the procut of the price of the procure of the price of th	it shall be lowever red for the ured from 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	shall be me be otained sand and struction in the private Land Civil Land Reserve Land Van Panchayat Total van Access por Deployme efficient e made for the private construction in the private Land van Panchayat Total van Pancha	ired for the ade available form hill side one chips (gon work shall the approved 0.000 Ha. 1.100 Ha. 1.100 Ha. 1.000 Ha.	construct e locally a le cutting. rit) requir l be procu- d quarry. @ 20.00 @ 9.35 @ 9.35 @ 9.35 (in Lakh) 46.60 e for indu- ent. ths d manpove nachinery n of the pro- le connect vith a pop	as it shall However red for the ured from 0.00 10.29 0.00 10.29 Lakh ction of wer and shall be roject. civity to	

SI. No	Variables	Alignment No-1	Alignment No-2		
17	Economic Factors:				
	(a) Population served by the alignment.	631	631		
	(b) Agricultures and economic potential of the area.	Transportation of the cultivated crops by mechinical means (ie, through road) shall enhance the economical condition of the people residing in this area. Potential of the development of animal husbandry is abailable in large scale.	Transportation of the cultivated crops by mechinical means (ie. through road) shall enhance the economical condition of the people residing in this area. Potential of the development of animal husbandry is abailable in large scale.		
18	other major development projects being taken up electric projects etc.	None	None		
19	(i) Misc. Such as camping sites	None	None		
	(ii) Law and other problem	None	None		
	(iii) Royalty	Royalty is paid to the Revenue Department as per rate fixed by District Magistrate.	Royalty is paid to the Revenue Department as per rate fixed by District		
	(iv) Availability of contractors for collection and carriage of construction material		Available		
	(v) working period available for construction of work.	8 Months	8 Months		
20	Total No. of trees to be removed	75	110		
21	Average Density of forest cover	0.2	0.2		
22	Total No. of Merits	14	11		
23	Total No. of Demerits	7	10		

RECOMMENDATIONS:

Alignment no. (1) Recommended for approval being more economical, useful & technically feasible.

A. Assistant. Engineer/J.E.

अस्थार्थ क्ला लाजान्य कार्या कार्या

Executive Engineer