Attachement 2.4

Performa for comparison between identified alignments

SI. No	Variables	Alignment No-1			, A	* Alignment No-2			
1	Topography	Mountainous				D- 12-	Mountain	ous	
2	Length of Road	2.00 Km.					2.50 Kn	1.	
3	Bridging requirement No. and Length	Nil				Nil			
4	Geometric	DE VI							
	(a) Gradients		1:18	1:20					
	(b) Curves, H.P Bends	1-2-2	NIL	NIL.					
5	Existing Means of communication, mule path, jeep, Tracks etc.	Mule Path					Mule Pa	22.50	
6	Right of way, bringing out, construction on account of built up areas, monuments and other structures.	up area, m	y is available ction work. conuments or cres along th	Right of way is available for carrying out the construction work. There are no built up area, monuments or other important structures along this alignment.					
7	(a) Terrain & Soil Condition.	Hilly and so Soft	I is a mix of Rock and I		CALL STREET, S	Hilly and soil is a mix of Earth & Boulders, Soft Rock and Hard Rock			
	(b) Cliffs and gorges.		None			None			
	(c) Drainage characteristics of the area including supceptibility to flooding.	area is good	and there is floodin	no suscep	otibility to	to flooding.			
	(d) General elevation of the road indicating maximum and minimum height negotiated by main ascends and discends.	the elevati road is 1300 point of the	d elevation of on of the sta 0 m. & the e road is 140 ive the high	rting point levation of 1 m. Thus of 101 m	nt of the of the end the road n.	The general elevation of road is 1355 m, the elevation of the starting point of the road is 1300 m. & the elevation of the en- point of the road is 1410 m. Thus the road achive the hight of 110 m.			
	(e) Variations extants and types.	Variable of the Habitation	age of the	Variable	Value Obtained	Variable of the Habitation	age of the	Variable	Obtaine d
		Population	8	304	6	Population	8	304	6
		SC/ST Population	8	0	0	SC/ST Population	8	0	0
		Primary School	4	2	4	Primary School	4	2	4
		Middle School	6	No	0	Middle School	6	No	0
		High School	8	No	0	High School	8	No	0
		Intermediat e School	8	No	0	Intermediat e School		No	0
		Voacationa I School	8	No	0	Voacationa I School		No	0
		Dispensary	4	Yes	4	Dispensary	4	Yes	4
	==	Maternity & Child Welfare Centers	6	Yes	6	Maternity & Child Welfare Centers	6	Yes	6
		Primary Health Centre &	8	No	0	Primary Health Centre & Veterinary	8	No	0

SI. No	Variables	Alignment No-1				Alignment No-2				
\$200		Police Station	6	No	n	Police Station	6	No	0	
		Post Office	4	Yes	4	Post Office	4	Yes	4	
		Electrified	6	Yes	6	Electrified	6	Yes	6	
		Panchayat Head Office	6	Yes	6	Panchayat Head Office	6	Yes	6	
		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		40	Total	100		40	
8	Climate Condition:							**		
0	(a) Temperature Monthly max. & min. reading:	Mon	Month		Temperature (in		Month		ature (in	
	& Hill. (Cading.	1 "		Max	Min			Max	Min	
		Janua	iry	20	7	Janu	ary	20	7	
-		Febru	ary	23	9	Febr	uary	23	9	
		Man	March		13	Mar	rch	27	13	
		Apr	April		18	Ap	ril	33	18	
		Ma	May		21	Ma	ıy	36	21	
		Jun	June		23	Ju	ne	34	23	
_		Jul	July		24	Ju	ly	31	24	
_	1 - A	Aug	ust	30	23	Aug	gust	30	23	
	-	Septer	nber	30	21	Septe		30	21	
		Octo	ber	29	17	Octo	100.00070	29	17	
_		Nover	nber	26	12	Nove	mber	26	12	
_		Decer	nber	22	8	50%-055085	mber	22	8	
	(b) Rainfall data average annua peak intensities monthly distribution (to the exten- available).	y	Month		Average Rainfall Data (in mm)				Average Rainfa Data (in mm)	
_	avanacies.	Janu	January		74		January		74	
		Febr	February		63		February		63	
		Ma	March		63		March		63	
		Ap	April		25		April		25	
	1	M	May		48		May		48	
Т		Ju	June		168		June		168	
		Ju	July		389		July		389	
		Aug	August		309		August		309	
		Septe	September 174			September		174		
		393702	October 83		0.407	The second second	tober	83		
			November		9		November		9	
			December		30		December 30			
	(c) Snowfall data average annu peak intensities month distribution (to the exte available)	ly and Febr	During the Month of December, January and February there are little chaces of Snowfall in on the proposed alignment of the road.			and February there are little chaces of				

il.	Variables	are pronounced and when the general				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.				
- 1	(e) Fog Condition	Generally the area Hov	re are no for wever during r and Janua	g condition the mont ry slight for g night, wi	ns in the h of oggy	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 o	xposed to si	un through	out the	The site is e		un through	hout the	
			year			The second block	year	novemel a	eather	
	(g) Unusual weather condition like cloud brust etc.	There is n condition lik	o record of a e cloud burs the site is le	a in the ar	eather ea where	There is no record of unusual weather condition like cloud burst in the area where the site is located				
9	Facilities resources.					N				
	(a) Landing ground.		None			None None				
	(b) Dropping Zone.		None		boods!	Patato, Rice, Wheat, Orange, Chaulai,				
	(c) Food stuffs.	and the same of the same of	ce, Wheat, 9	d		Waleut				
_	(d) Labour local availability and	Local Jahour	is available	for const	ruction of	Local labour is available for construction of work				
	need for import. (e) Construction materia	Stone requ	ired for the	constructi	on work	shall be ma	ired for the	constructi	is it shall	
	need for import. (e) Construction materia (Timber, Bamboo, Sand, Stone Shingle etc. extent of their availability and lead involved.	Stone requirements of sand and stoconstruction	work ired for the le available rm hill side one chips (g on work shal the approved	constructi locally as cutting. H rit) require I be procu I quarry.	on work it shall be owever ed for the red from	shall be ma be otained I sand and sto constructio	ired for the ide available form hill sid one chips (g in work shal he approved	constructive locally a cutting rit) required be procust quarry.	is it shall However ed for the ired from	
10	need for import. (e) Construction materia (Timber, Bamboo, Sand, Stone Shingle etc. extent of their availability and lead involved. Value of land, agricultural land Irrigated land, bult up land	Stone requisions shall be made of otained for sand and stoconstructions.	work ired for the le available rm hill side one chips (g on work shal	construction locally as cutting. Hereit) required to the procure of the procure o	on work it shall be owever ed for the red from	shall be ma be otained I sand and sto constructio	ired for the ide available form hill sid one chips (g n work shal he approved 0,000 Ha.	construction to locally a cutting rit) required be procust quarry.	s it shall However ed for the ired from 0.00	
10	need for import. (c) Construction materia (Timber, Bamboo, Sand, Stone Shingle etc. extent of their availability and lead involved. Value of land, agricultural land	Stone requisions shall be made of otained for sand and stoconstructions.	work ired for the le available rm hill side one chips (g on work shal the approved	constructi locally as cutting. H rit) require I be procu I quarry.	on work it shall be owever ed for the red from	shall be ma be otained I sand and sto constructio t Private	ired for the ide available form hill sid one chips (g in work shal he approved 0,000 Ha.	construction of construction o	t shall Howeve ed for the red from 0.00	
10	need for import. (e) Construction materia (Timber, Bamboo, Sand, Stone Shingle etc. extent of their availability and lead involved. Value of land, agricultural land Irrigated land, bult up land	Stone requishall be made of otained for sand and struction. Private Land Civil Land Reserve	work ired for the le available rm hill side one chips (g on work shal the approved	construction locally as cutting. He procused the procused quarry.	on work it shall be owever ed for the red from	shall be ma be otained I sand and sto constructio t Private Land Civil Land Reserve Land	ired for the ide available form hill sid one chips (g n work shal he approved 0.000 Ha. 0.000 Ha.	e locally a le cutting rit) requir l be procui quarry a 20.00	loweve ed for the red from 0.00	
10	need for import. (e) Construction materia (Timber, Bamboo, Sand, Stone Shingle etc. extent of their availability and lead involved. Value of land, agricultural land Irrigated land, bult up land	Stone requishall be made of otained for sand and struction. Private Land Civil Land Reserve Land Van Panchayat	work ired for the le available rm hill side one chips (g on work shal he approved 0.000 Ha. 0.000 Ha.	construction locally as cutting. He procust quarry. a 20.00 a 9.35 a 9.35 a 9.35	on work it shall be owever ed for the red from 0.00 0.00	shall be ma be otained I sand and sto constructio U Private Land Civil Land Reserve Land Van Panchayat	ired for the ide available form hill sid one chips (g n work shall he approved 0.000 Ha.	e locally a e cutting rit) require l be procut quarry. a 20.00 a 9.35 a 9.35 a 9.35	s it shall However ed for the ired from 0.00 0.00 0.00	
10	need for import. (e) Construction materia (Timber, Bamboo, Sand, Stone Shingle etc. extent of their availability and lead involved. Value of land, agricultural land Irrigated land, bult up land	Stone requishall be made of otained for sand and struction. Private Land Civil Land Reserve Land Van Panchayat	work ired for the le available rm hill side one chips (g on work shal the approved 0.000 Ha. 0.000 Ha. 1.753 Ha. alue of Land	construction locally as cutting. He proculd the proculd quarry. @ 20.00 @ 9.35 @ 9.35 @ 9.35 I (in Lakh	on work it shall be owever ed for the red from 0.00 0.00 16.39	shall be mabe otained I sand and sto construction to Private Land Civil Land Reserve Land Van Panchayat Total va	ired for the ide available form hill sid one chips (g n work shall be approved 0.000 Ha. 0.000 Ha. 0.000 Ha. 2.150 Ha.	e locally a le cutting rit) requir l be procu quarry a 20.00 a 9.35 a 9.35 (in Lakh	0.00 0.00 0.00 20.10	
10	need for import. (e) Construction materia (Timber, Bamboo, Sand, Stone Shingle etc. extent of their availability and lead involved. Value of land, agricultural land trigated land, bult up land forest land etc.	Stone requishall be made of otained for sand and streemstruction. Private Land Civil Land Reserve Land Van Panchayat Fotal v 2.000 Km.	work ired for the le available rm hill side one chips (g on work shal the approved 0.000 Ha. 0.000 Ha. 1.753 Ha. alue of Land	construction locally as cutting. He rit) required the procured quarry. a 20.00 a 9.35 a 9.35 a 9.35 d (in Lakh) 93.20	on work it shall be owever ed for the red from 0.00 0.00 16.39 16.39 Lakh	shall be mabe otained I sand and sto construction to Private Land Civil Land Reserve Land Van Panchayat Total va 2.500 Km	ired for the ide available form hill sid one chips (g n work shall he approved 0.000 Ha. 0.000 Ha. 0.000 Ha. 2.150 Ha. due of Land	e locally a le cutting rit) requir l be procu quarry. a 20.00 a 9.35 a 9.35 a 9.35 (in Lakh	0.00 0.00 0.00 20.10 Lakh	
	need for import. (e) Construction materia (Timber, Bamboo, Sand, Stone Shingle etc. extent of their availability and lead involved. Value of land, agricultural land trrigated land, bult up land forest land etc. Approximate Const, Cost. Access point indicatin	Stone requested shall be made of otained for sand and stoconstruction. Private Land Civil Land Reserve Land Van Panchayat Total v 2.000 Km.	work ired for the le available rm hill side one chips (g on work shal the approved 0.000 Ha. 0.000 Ha. 1.753 Ha. alue of Land @ 46.60 oint availab equipn	construction locally as cutting. He rit) required the procured quarry. a 20.00 a 9.35 a 9.35 a 9.35 from Lakh 93.20 de for indument.	on work it shall be owever ed for the red from 0.00 0.00 16.39 16.39 Lakh	shall be mabe otained I sand and sto construction to Private Land Civil Land Reserve Land Van Panchayat Total va 2.500 Km	ired for the ide available form hill sid one chips (g n work shall he approved 0.000 Ha. 0.000 Ha. 0.000 Ha. 2.150 Ha. 2.150 Ha. due of Land 2.46.60 oint availab equipm	e locally a e cutting rit) requir l be procy i quarry. a 20.00 a 9.35 a 9.35 a 9.35 t (in Lakh	0.00 0.00 0.00 20.10 Lakh	
1	need for import. (e) Construction materia (Timber, Bamboo, Sand, Stone Shingle etc. extent of their availability and lead involved. Value of land, agricultural land trigated land, bult up land forest land etc. Approximate Const, Cost. Access point indicatin possibility of induction equipment.	Stone requishall be made of otained for sand and stoconstruction. Private Land Civil Land Reserve Land Van Panchayat Total v 2.000 Km.	work ired for the le available rm hill side one chips (g on work shal the approved 0.000 Ha. 0.000 Ha. 1.753 Ha. alue of Land @ 46.60	construction locally as cutting. He rit) required the procured quarry. a 20.00 a 9.35 a 9.35 a 9.35 from Lakh 93.20 de for indument.	on work it shall be owever ed for the red from 0.00 0.00 16.39 16.39 Lakh	shall be mabe otained I sand and sto construction to Private Land Civil Land Reserve Land Van Panchayat Total va 2.500 Km Access p	ired for the ide available form hill sid one chips (g n work shall he approved 0.000 Ha. 0.000 Ha. 0.000 Ha. 2.150 Ha. due of Land 2.46.60 oint availab equipn	e locally a le cutting rit) requir l be procu quarry. a 20.00 a 9.35 a 9.35 a 9.35 (in Lakh 116.50 the for indiment	0.00 0.00 0.00 20.10 Lakh	
	need for import. (e) Construction materia (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 indicatin possibility of induction equipment. Period required for construction	Stone requisiball be made of officient made	work ired for the le available rm hill side one chips (g on work shal he approved 0.000 Ha. 0.000 Ha. 1.753 Ha. alue of Land a 46.60 coint availab equipm 8 Mor ment of skill equipment/ for completi	construction locally as cutting. If rit) required the procured quarry. @ 20.00 @ 9.35 @ 9.35 @ 9.35 I (in Lakh 93.20 Ite for indument. In the manpo machinery on of the procured th	on work it shall be owever ed for the red from 0.00 0.00 16.39 Lakh action of wer and r shall be oroject.	shall be mabe ottained I sand and sto construction to Private Land Civil Land Reserve Land Van Panchayat Total va 2.500 Km Access p	ired for the ide available form hill sid one chips (g in work shall he approved 0.000 Ha. 0.000 Ha. 0.000 Ha. 2.150 Ha. 12.150 Ha. 2.150 Ha. 3.46.60 3.46.60 3.46.60 3.46.60 3.46.60 3.46.60 3.46.60 3.46.60 3.46.60 3.46.60 3.46.60	a 9.35 a 9.35 a 9.35 a 9.35 c (in Lakh 116.50 de for independent	0.00 0.00 0.00 0.00 20.10 Lakh uction of	
111111111111111111111111111111111111111	need for import. (e) Construction materia (Timber, Bamboo, Sand, Stone Shingle etc. extent of their availability and lead involved. Value of land, agricultural land trigated land, bult up land forest land etc. Approximate Const, Cost. Access point indicating possibility of induction equipment. Period required for construction.	Stone requestion of sand and stoconstruction of sand and stoconstruction of the sand and stoconstruction of the sand and stoconstruction of the sand o	work ired for the le available rm hill side one chips (g on work shale the approved 0.000 Ha. 0.000 Ha. 1.753 Ha. alue of Land alue of Land alue of Land coint availab equipm	construction locally as cutting. He rit) required the procuding and a possible and a possible for independent and a possible for independent and a possible connection of the possible connection with a possible connection with a possible connection with a possible connection with a possible connection of the possible connection with a possible connection of the possible connection of the possible connection with a possible connection of the possible connection with a possible connection of the possible	on work it shall be owever ed for the red from 0.00 0.00 16.39 Lakh action of wer and r shall be project ctivity to	shall be mabe otained I sand and sto construction the Private Land Civil Land Reserve Land Van Panchayat Total van 2.500 Km Access p	ired for the ide available form hill sid one chips (g n work shall he approved 0.000 Ha. 0.000 Ha. 0.000 Ha. 2.150 Ha.	e locally a le cutting rit) requir l be procu i quarry. a 20.00 a 9.35 a 9.35 a 9.35 i (in Lakh 116.50) tle for indiment on the lide conne of the lide conne ota with a numbers	0.00 0.00 0.00 20.10 Lakh uction of	

SI. No	Variables	Alignment No-1	Alignment No-2			
17	Economic Factors:	The second second				
	(a) Population served by the alignment.	304	304			
	(b) Agricultures and economic potential of the area.	Transportation of the cultivated crops by mechinical means (ic. 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	175	415			
21	Average Density of forest cover	0.2	0.2			
22	Total No. of Merits	17	П			
23		4	10			

RECOMMENDATIONS:

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

& technically feasible.

A. Assistant. Engineer/J.E.

A at a st

असिशाली अभिराजताः बर्द्धिद्रद्रमाश्चित्रकाः बर्द्धिकुर्द्धिकाः