Attachement 2.4

Performa for comparison between identified alignments

Sl.	Variables	Alignment No-1				Alignment No-2				
No		9				8	etekt som s i s e			
1	Topography	Mountainous					Mountair	10116		
2	Length of Road		4.00 Kı				3.80 K			
3	Bridging requirement No. and	4 1	No. (20 m. S			()	With the break with the	19910		
3	Length	41	10. (20 III. S	pan eacn,		0.19	No. (20 m. S	pan eacr	1)	
4	Geometric									
_	(a) Gradients		1:20				1:18			
	(b) Curves, H.P Bends		3 H.P. Be	ends	- Von -		5 H.P. B			
5	Existing Means of communication, mule path, jeep, Tracks etc.		Mule Pa		Mule Path					
6	Right of way, bringing out.		ıy is availabl			Right of way is available for carrying out				
	construction on account of built		ction work.			the construction work. There are no built				
	up areas, monuments and other		onuments of			up area, monuments or other important				
7	structures. (a) Terrain &Soil Condition.		res along th nd soil is a m			structures along this alignment. Hilly and soil is a mix of Earth &				
			, Soft Rock			Boulders, Soft Rock and Hard Rock.				
	(b) Cliffs and gorges.		None			None				
	(c) Drainage characteristics of	The natural	drainage ch	aractersti	cs of the	The natural drainage characteritics of the				
	the area including supceptibility	supceptibility area is good and there is no susceptibility to flooding.				area is good and there is no susceptibility				
	to flooding.					to flooding.				
	(d) General elevation of the		l elevation o			The general elevation of road is 2113 m.				
	road indicating maximum and minimum height negotiated by	the elevation of the starting point of the road is 2051 m. & the elevation of the end point of the road is 2151 m. Thus the road				the elevation of the starting point of the road is 2051 m. & the elevation of the end point of the road is 2176 m. Thus the				
	main ascends and discends.									
		achive the hight of 100 m.				road achive the hight of 125 m.				
	(e) Variations extants and types.	Variable	Weight	Variable		Variable	Weight	Variabl	Value	
		of the	age of the		Obtained	1800 LEGG 1	age of the	е	Obtaine	
		Habitation Population	variable 8	286	4	Habitation Population	variable 8	286	d 4	
		SC/ST	8	383	8	SC/ST	8	383	8	
		Population	Ü	202	0	Population	0	363	0	
		Primary	4	2 No	4	Primary	4	2 No	4	
		School				School				
		Middle	6	Yes	6	Middle	6	Yes	6	
		School High	8	No	0	School High	8	No	0	
		School	Ü	110	U	School	O	140		
		Intermediat	8	No	0	Intermediat	8	No	0	
		e School				e School				
		Voacationa	8	No	0	Voacationa	8	No	0	
		1 School Dispensary	4	No	0	l School Dispensary	4	No	0	
	-	Dispensary	7	110		Dispensary	-	INO	"	
	4	Maternity	6	No	0	Maternity	6	No	0	
		& Child				& Child			_	
		Welfare				Welfare				
		Centers Primary	8	No	0	Centers Primary	8	No		
		Health	0	110	U	Health	8	140	0	
- 19		Centre &				Centre &				
		Veterinary				Veterinary		-		

Sl. No	Variables	I	Alignmer	nt No-1		Alignment No-2			
- free		Police Station	6	No	0	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	
		Hilly Area	4	Yes	4	Hilly Area	4	Yes	4
		Total	100		42	Total	100		42
8	Climate Condition:	A.							
	(a) Temperature Monthly max. & min. reading.	Month		Temperature (in ⁰ C)		Month		Temperature (in	
			8	Max	Min	1		Max	Min
		Janu	ary	20	7	Janu	ary	20	7
		Febr	uary	23	9	Febru	iary	23	9
	•	Ma	rch	27	-13	Mar	ch	27	13
		Ap	ril	33	18	Apı	ril	33	18
		Ma	ay	36	21	Ma	ıy	36	21
		Jui	1e	34	23	Jun	ie	34	23
		Ju	ly ,	31	24	Jul	у	31	24
	v	Aug	gust	30	23	Aug	ust	30	23
		Septe	mber	30	21	Septer	nber	30	21
	A DESCRIPTION OF THE PROPERTY	Octo	ber	29	17	Octo	ber	29	17
	100	Nove	mber	26	12	Nover	nber	26	12
		Dece	mber	22	8	Decer	nber	22	8
	(b) Rainfall data average annual peak intensities monthly distribution (to the extent available).	Month		Average Rainfall Data (in mm)		Мог	nth	Data (Rainfall (in mm)
		Janu	iary	,	74	Janu	ary	,	74
		February March			53			53	
				1	53	March			53
	April			25			25		
		May		4	18	May		48	
		June		168		June		168	
		July		3	89	July		389	
		August		309		August		309	
		September October November		174		September		174	
					83	October		83	
					9	November		9	
		December		30		December		30	
	(c) Snowfall data average annual peak intensities monthly distribution (to the extent available)	and Febru	During the Month of December, January and February there are little chaces of Snowfall in on the proposed alignment of the road.			During the Month of December, January and February there are little chaces of Snowfall in on the proposed alignment of the road.			

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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				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					
	(e) Fog Condition.	Generally the area H Decemb	there are no However duri er and Janua orevail durin sky in the	tions in onth of loggy	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 throughout the year				The site is e	exposed to s	un t hroนยู	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				condition	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.	None					None				
	(b) Dropping Zone.	None					None				
	(c) Food stuffs.	Aloo, Dhan, Ghehun, Malta, Rajma, Akhrot				Aloo, Dhan, Ghehun, Malta, Rajma,					
	(d) Labour local availability and need for import.	Local labour is available for construction of work				Local labour is available for construction of work					
	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved.	Stone required for the construction work shall be made available locally as it shall be otained form hill side cutting. However sand and stone chips (grit) required for the construction work shall be procured from the approved quarry.				Stone required for the construction work shall be made available locally as it shall be otained form hill side cutting. However sand and stone chips (grit) required for the construction work shall be procured from the approved quarry.					
10	Value of land, agricultural land, Irrigated land, bult up land, forest land etc,		1.020 Ha.		8.93	Private Land					
		Civil Land	1.619 Ha.	@ 9.35	15.14	Civil Land	1.510 Ha.	@ 9.35	14.12		
		Reserve Land	0.991 Ha.		0.00	Reserve Land	1.750 Ha.		0.00		
		Van Panchayat	0.000 Ha.	@ 9.35	0.00	Van Panchayat	0.000 Ha.	@ 9.35			
11	Approximate Const. Cost.	Total value of Land (in Lakh) 24.06 3.879 Km. @ 46.60 180.76 Lakh				Total value of Land (in Lakh) 14.12 3.800 Km. @ 46.60 177.08 Lakh					
12	Access point indicating possibility of induction of equipment.	The state of the s	pint available equipme	7 37/// 2016	Access point available for induction of equipment.						
13	Period required for construction.		12 Mon	iths		16 Months					
14	Strategic Consideration.	Deployment of skilled manpower and efficient equipment/machinery shall be made for completion of the project.				Deployment of skilled manpower and efficient equipment/machinery shall be made for completion of the project.					
15	Important villages, towns and markets centers to be connected.	The road shall provide connectivity to village Tuneda, Solta with a population of 286 numbers.				The road shall provide connectivity to village Tuneda, Solta with a population of 286 numbers.					
16	Recreational potential.	Nil				Nil					

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Sl. No	Variables	Alignment No-1	Alignment No-2			
17	Economic Factors:					
1,	(a) Population served by the alignment.	286	286			
	(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	Available			
	(v) working period available for construction of work.	8 Months	8 Months			
20	Total No. of trees to be	133	4 3 2 1 = 18			
21	Average Density of forest cover	0.3	0.3			
22	Total No. of Merits	14	10			
23	Total No. of Demerits	7	11			

RECOMMENDATIONS:

 $\label{eq:Alignment no. (1) Recommended for approval being more economical, useful \& technically feasible.$

A. Assistant. Engineer/J.E.

सहायक अभियन्ता निर्माण डाउडी का लामिडामें हैं हैं विव थराली (चर्ग

Excountre Engineer निर्माण खण्ड लो० नि० वि० थराली (चमोली)