

Attachement 2.4

Performa for comparison between identified alignments

Sl. No	Variables	Alignment No-1				Alignment No-2			
1	Topography	Mountainous				Mountainous			
2	Length of Road	8.125 Km.				10.00 Km.			
3	Bridging requirement No. and Length	Nil				Nil			
4	Geometric								
	(a) Gradients	1:20				1:18			
	(b) Curves, H.P Bends	6 H.P. Bends				5 H.P. Bends			
5	Existing Means of communication, mule path, jeep. Tracks etc.	Mule Path				Mule Path			
6	Right of way, bringing out. construction on account of built up areas, monuments and other structures.	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.				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 soil is a mix of Earth & Boulders, Soft Rock and Hard Rock.				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.	The natural drainage characterstics of the area is good and there is no susceptibility to flooding.				The natural drainage characterstics of the area is good and there is no susceptibility to flooding.			
	(d) General elevation of the road indicating maximum and minimum height negotiated by main ascends and discends.	The general elevation of road is 1610 m. the elevation of the starting point of the road is 1540 m. & the elevation of the end point of the road is 1681 m. Thus the road achive the hight of 141 m.				The general elevation of road is 1610 m. the elevation of the starting point of the road is 1540 m. & the elevation of the end point of the road is 1681 m. Thus the road achive the hight of 141 m.			
	(e) Variations extants and types.	Variable of the Habitation	Weight age of the variable	Variable	Value Obtaine d	Variable of the Habitation	Weight age of the variable	Variable	Value Obtaine d
		Population	8	638	8	Population	8	638	8
		SC/ST Population	8	52	8	SC/ST Population	8	52	8
		Primary School	4	Yes	4	Primary School	4	Yes	4
		Middle School	6	Yes	6	Middle School	6	Yes	6
		High School	8	No	0	High School	8	No	0
		Intermediat e School	8	No	0	Intermediat e School	8	No	0
		Voacationa l School	8	No	0	Voacational School	8	No	0
		Dispensary	4	No	0	Dispensary	4	No	0
		Maternity & Child Welfare Centers	6	Yes	6	Maternity & Child Welfare Centers	6	Yes	6
		Primary Health Centre & Veterinary	8	No	0	Primary Health Centre & Veterinary	8	No	0

Sl. No	Variables	Alignment No-1				Alignment No-2			
		Police Station	6	No	0	Police Station	6	No	0
		Post Office	4	No	0	Post Office	4	No	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		42	Total	100		42
8	Climate Condition:								
	(a) Temperature Monthly max. & min. reading.	Month	Temperature (in °C)		Month	Temperature (in °C)			
			Max	Min		Max	Min		
		January	20	7	January	20	7		
		February	23	9	February	23	9		
		March	27	13	March	27	13		
		April	33	18	April	33	18		
		May	36	21	May	36	21		
		June	34	23	June	34	23		
		July	31	24	July	31	24		
		August	30	23	August	30	23		
		September	30	21	September	30	21		
		October	29	17	October	29	17		
		November	26	12	November	26	12		
		December	22	8	December	22	8		
	(b) Rainfall data average annual peak intensities monthly distribution (to the extent available).	Month	Average Rainfall Data (in mm)		Month	Average Rainfall Data (in mm)			
		January	74		January	74			
		February	63		February	63			
		March	63		March	63			
		April	25		April	25			
		May	48		May	48			
		June	168		June	168			
		July	389		July	389			
		August	309		August	309			
		September	174		September	174			
		October	83		October	83			
		November	9		November	9			
		December	30		December	30			
	(c) Snowfall data average annual peak intensities monthly distribution (to the extent available)	During the Month of December, January and February there are little chances of Snowfall in on the proposed alignment of the road.				During the Month of December, January and February there are little chances of Snowfall in on the proposed alignment of the road.			

Sl. No	Variables	Alignment No-1				Alignment No-2					
	(d) Wind direction and velocities.	Owing to the nature of terrain 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 terrain 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 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				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 exposed to sun throughout the year					
	(g) Unusual weather condition like cloud burst 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.	None				None					
	(b) Dropping Zone.	None				None					
	(c) Food stuffs.	Aloo, Dhan, Ghehun, Malta, Rajma, Akhrot				Aloo, Dhan, Ghehun, Malta, Rajma, Akhrot					
	(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 obtained from 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 obtained from 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, built up land, forest land etc.	Private Land	1.892 Ha.	@ 20.00	37.84	Private Land	0.900 Ha.	@ 20.00	18.00		
		Civil Land	1.069 Ha.	@ 9.35	10.00	Civil Land	1.400 Ha.	@ 9.35	13.09		
		Reserve Land	4.895 Ha.	@ 9.35	45.77	Reserve Land	5.600 Ha.	@ 9.35	52.36		
		Van Panchayat	0.000 Ha.	@ 9.35	0.00	Van Panchayat	0.000 Ha.	@ 9.35	0.00		
		Total value of Land (in Lakh)				93.60	Total value of Land (in Lakh)				83.45
11	Approximate Const. Cost.	8.125 Km.	@ 46.60	378.63	Lakh	10.000 Km.	@ 46.60	466.00	Lakh		
12	Access point indicating possibility of induction of equipment.	Access point available for induction of equipment.				Access point available for induction of equipment.					
13	Period required for construction	24 Months				24 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 Devsari with a population of 638 numbers.				The road shall provide connectivity to village Devsari with a population of 638 numbers.					
16	Recreational potential.	Nil				Nil					

Sl. No	Variables	Alignment No-1	Alignment No-2
17	Economic Factors:		
	(a) Population served by the alignment.	638	638
	(b) Agricultures and economic potential of the area.	Transportation of the cultivated crops by mechanical means (ie. through road) shall enhance the economical condition of the people residing in this area. Potential of the development of animal husbandry is available in large scale.	Transportation of the cultivated crops by mechanical means (ie. through road) shall enhance the economical condition of the people residing in this area. Potential of the development of animal husbandry is available 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 Magistrate.
	(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 removed	1118	456
21	Average Density of forest cover	0.2	0.2
22	Total No. of Merits	15	11
23	Total No. of Demerits	6	10

RECOMMENDATIONS:

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

A. Assistant. Engineer/J.E.

Assistant Engineer

Executive Engineer