Performa for Description and comparison between identified alignments

Sl.	Variables	Alignment No-1	Alignment No-2
1	Topography	Mountainous	Mountainous
2	Length of Road	2.000 Km.	2.40 Km.
3	Bridging requirement No. and Length	Nil	Nil
4	Geometric		
	(a) Gradients	1:20, 1:40 (HP bend)	1:18, 1:35 (HP Bend)
	(b) Curves, H.P Bends	4 H.P. Bends	4 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 ou the construction work. There are no buil 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 & Boulder cantaining sliding Zone.
	(b) Cliffs and gorges.	None	In this alignment vertical cliff falling in changae 1/22 (Km. 1.550)
	(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 th area is not more good and there is susceptibility to flooding and sliding.
	(d) General elevation of the road indicating maximum and minimum height negotiated by main ascends and discends.	The general elevation of road is 1180 m. the elevation of the starting point of the road is 1200 m. & the elevation of the end point of the road is 1125 m. Thus the road achive the hight of 65 m.	The general elevation of road is 1160 m the elevation of the starting point of the road is 1200 m. & the elevation of the en point of the road is 1119 m. Thus the roa achive the hight of 81 m.

(e) Variations extants and types.	Variable of the Habitation	Weight age of the variable	Variable	Value Obtained	Variable of the Habitation	Weight age of the variable	Variable	Value Obtaind
	Population	8	1229	8	Population	8	1229	8
	SC/ST Population	8	109	8	SC/ST Population	8	109	8
	Primary School	4	Yes	4	Primary School	4	Yes	4
	Middle School	6	Yes	0	Middle School	6	Yes	0
	High School	8	No	0	High School	8	No	0
	Intermediate School	8	No	0	Intermediate School	8	No	0
	Voacational School	8	No	0	Voacational School	8	No	0
	Dispensary	4	No	0	Dispensary	4	No	0
	Maternity & Child Welfare Centers	6	Yes	0	Maternity & Child Welfare Centers	6	Yes	0

Sl.	Variables	Alignment No-1				Alignment No-2			
		Primary Health Centre & Veterinary	8	No	0	Primary Health Centre & Veterinary	8	No	0
		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		30	**Total**	100		30
8	Climate Condition:								

(a) Temperature Monthly max. & min. reading.

Month	Temperature (in ^{0}C)		Month	Temperature (in ^{0}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

Sl.	Variables	Alignment No-1	Alignment No-2
	(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.
	(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 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 except some chainage. Due to less exposure to Sun light these places converted into wet portion.
	(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.	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 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.	Private Land	0.270 Ha.	@ 20.00	5.40	Private Land	0.180 Ha.	@ 20.00	3.60
		Civil Land	0.680 Ha.	@ 9.35	6.36	Civil Land	0.490 Ha.	@ 9.35	4.58
		Reserve Land	0.000 Ha.	@ 9.35	0.00	Reserve Land	0.000 Ha.	@ 9.35	0.00
		Van Panchayat	0.703 Ha.	@ 9.35	6.57	Van Panchayat	1.030 Ha.	@ 9.35	9.63
		Total value of Land (in Lakh)			18.33	Total value of Land (in Lakh)			17.81
11	Approximate Const. Cost.	2.000 Km.	@ 100.70	201.40	Lakh	2.400 Km.	@ 100.70	241.68	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			

Sl.	Variables	Alignment No-1	Alignment No-2
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 Dungri with a population of 1229 numbers.	The road shall provide connectivity to village Dungri with a population of 1229 numbers.
16	Recreational potential.	Nil	Nil
17	Economic Factors:		
	(a) Population served by the alignment.	1229	1229
	(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	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 .	142	215
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