Name of the Work- Construction of Dewal Kheta Motor Road(L027) Km-10(Syualkot) To Mopata Link Motor Road under PMGSY Phase-XVIII

Comparison between identified alignments

Sl. No.	Variables	Alignment No-1	Alignment No-2		
1	Topography	Mountainous	Mountainous		
2	Length of Road	5.100 km	7.200 km		
3	Bridging requirement No. and Length	02	02		
4	Geometric				
	(a) Gradients	1:20	1:20		
	(b) Curves, H.P Bends	07 numbers of H.P. Bends	09 numbers of H.P. Bends		
5	Existing Means of communication, mule path, jeep, Tracks etc.	By mule path By mule path			
6	Right of way, bringing out. construction on account of built up areas, monuments and other structures.	There are no built up area monuments or other important structures along this alignment			
	(a) Terrain & Soil Condition.	The terrain is hilly and the soil is a mix of Earth and Boulders, Soft Rock and Hard Rock.	The terrain is hilly and the soil is a mix of Earth and Boulders, Soft Rock and Hard Rock.		
	(i) Cliffs and gorges.	(i) None	(i) None		
7	(ii) Drainage characteristics of the area including susceptibility to flooding.		characteristics of the area is good and there is no susceptibility to flooding.		
	(iii) General elevation of the road indicating maximum and minimum heigh negotiated by main ascendand descends.	starting point of the road is 1420 m	the starting point of the road is 1420 m and the elevation at the		
	(iv) Variations extant and types.	50/100 (Attached after comprative)	50/100 (Attached after comprative)		



Assistant Engineer RWD. PMGSY Karanprayag-1

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Sl. No.	Variables	Alignment No-1			Alignment No-2		
	Climate Condition:	V.					
	(a) Temperature Monthly max. & min. reading.	1131 Temperature Withinity Inda. C			(a) Temperature Monthly max. min. reading (Avg. data of 12 years		
			Temperature (in ⁰ C)			Temperature (in ⁰ C)	
		Month	Max.	Min.	Month	Max.	Min.
		January	18	-1	January	18	-1
		Feb.	22 ·	7	Feb.	22	7
		March	27	13	March	27	13
8		April	33	18	April	33	18
		May	35	20	Мау	35	20
		lune	32	21	June	32	21
		July	31	21	July	31	21
		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	21	-1	December	21	-1
	(b) Rainfall data average annual peak intensities monthly distribution (to the extent available).	s peak	all data average annual ntensities monthly distribution Average Rainfall Data (in mm)		peak Month	intensities monthly distribution Average Rainfall Data (in mm)	
		January	74		January	74	
	-	Feb.	76		Feb.	76	
		March	77		March	77	
		April	36		April	36	
		May	48		May	48	
		June	140.		June	140	
		July	322		July	322	
	-	August	271	271		271	
	-	September	150		Septembe	150	
-		October	66 '		October	66	
		November	12		November	r 12	
		December			December	33	
	(c) Snowfall data avera annual peak intensiti monthly distribution (to t extent available).	nowfall data average (c) Snowfall occurs in the month December and January upto 30 c in depth on an average.			of (c) Snowf n December in depth o	and Janu	ary upto 30
				0			





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Sl. No.	Variables	Alignment No-1	Alignment No-2			
	(d) Wind direction and velocities.	(d) 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.	local affect are pronounced an when the general prevailing wind not too strong to mask these effect there is a tendency for diurnal reversal of winds, the flow being anabatic during the day an			
	(e) Fog Condition.	(e) 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.	conditions in the area. However during the month of December and January, slight foggy condition			
	(f) Exposure to sun.	(f) The site is exposed to sun throughout the year.	(f) The site is exposed to sur throughout the year.			
	(g) Unusual weather condition like cloud burst etc.	(g) There is no record of unusual weather condition like cloud burst in the area where the site is located.	(g) There is no record of unusual weather condition like cloud burs in the area where the site i located.			
	Facilities resources.					
	(a) Landing ground.	(a) None	(a) None			
	(b) Dropping Zone.	(b) None	(b) None			
9	(c) Food stuffs.	(c) Haldi, Adrak, Mirch, Lehsoon, Dhan, Ghehun, Aloo etc.	(c) Haldi, Adrak, Mirch, Lehsoon Dhan, Ghehun, Aloo etc.			
	(d) Labour local availability and need for import.	(d) Local labour is available for construction work.	(d) Local labour is available fo construction work.			
27	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved.	(e) Stone required for the construction work shall be made available locally as it shall be obtained from hill side cutting. However, sand required for the construction work shall be procured from the approved quarry with a distance of 30 km.	construction work shall be mad available locally as it shall b obtained from hill side cutting However, sand required for th construction work shall b			
	the same of the sa		Value of the land required for th			







Sl. No.	Variables	Alignment No-1	Alignment No-2		
	Value of land, agricultural land, Irrigated land, built up land, forest land etc,	Private land, 1.771hectare @ Rs.	Private land, 2.040 hectare @ Rs		
10		Civil land, 1.014 hectare @ Rs.	- Civil land, 1.183 hectare @ Rs=Rs		
		Van panchayat land, 1.608 hectare @ Rs=Rs	Van panchayat land, 2.063 hectar @ Rs=Rs		
		Reserve Forest land, 0.386 hectare @ Rs=Rs	Reserve Forest land, 0.900 hectar @ Rs=Rs		
72		Thus total value of land = Rs.	Thus total value of land = R		
11	Approximate Const. Cost.	Rs. 319.36lacs	Rs. 390.51 lacs		
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.	12 months	12 months		
14	Strategic Consideration.	Deployment of skilled manpower and efficient equipment / machinery shall be made for completion of the project.	and efficient equipment machinery shall be made f		
15	Important villages, towns and markets centers to be connected.	The road shall provide connectivity to Village- Tajpur Laga Kandai with a population of 274 numbers	The road shall provide connectivito Village- Tajpur Laga Kandai wia population of 274 numbers		
16	Recreational potential.	Nil	Nil		
	Economic Factors:				
	(a) Population served by the alignment.	(a) 251 numbers	(a) 251 numbers		
17	(b) Agricultures and economic potential of the area.	Ithrough road) shall enhance the	through road) shall enhance t economical condition of the peoperation in this area. Potential		





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Sl. No.	Variables	Alignment No-1	Alignment No-2		
18	Other major development projects being taken up electric projects etc.		None		
	(i) Misc. Such as camping sites	(i) Camping sites to be located along the alignment of the road.	(i) Camping sites to be located along the alignment of the road.		
	(ii) Law and other problem	(ii) There is no significant law and order problem in the area and the local administration takes care of such matters.	order problem in the area and the		
19	(iii) Royalty	(iii) Royalty is paid to the Revenue Department.	(iii) Royalty is paid to the Revenue Department.		
	(iv) Availability of contractors for collection and carriage of construction material		(iv) Available		
	(v) Working period available for construction of work.	(v) 12 months in a year	(v) 12 months in a year		
20	Total No. of trees to be removed.	190 numbers	Approximately 258 numbers.		
21	Average Density of forest cover.				
22	Total No. of Merits				
23	Total No. of Demerits				

Note- Colour filled Cell is the de-merit of the alignment whereas no fill is the merit of the alignment RECOMMENDATIONS:

Alignment no. -1 is Recommended for approval being more economical, useful & technically feasible.

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Assistant Engineer RWD.PMGSY Karanprayag-1

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सर्व क्षेत्र क्षेत्रकारकः पूर्व विश्वर देशास क्ष्रीर नम स्थार गोलेकक प्रभागीय किनाधिकारी बद्रीनाथ का प्रभाग गोपेस्वर (चनेत्वी)

जागारक वार