

Performa for comparison between identified alignments

कार्य का नाम :- जनपद चमोली के विधानसभा क्षेत्र कर्णप्रयाग के अन्तर्गत उमट्टा बरसाली मोटर मार्ग का बैरफाला-काण्डा तक विस्तारीकरण एवं 12 मीटर स्पान सेतु का निर्माण कार्य।

Sl.No	Variables	Alignment No-1	Alignment No-2																																																																																		
	2	3	4																																																																																		
1	Topography	Mountainous, start from Umatta mauna Motor Road Km 5.500	Mountainous, start from jenta painkhuli Motor Road Km 5.500																																																																																		
2	Length of Road	5.00 Km	5.00 Km																																																																																		
3	Bridging requirement No. and Length	Nil	Nil																																																																																		
4	Geometric																																																																																				
	(a) Gradients	1:17, 1:20, 1:24 & 1:40, 1:60	1:15, 1:18 & 1:20																																																																																		
	(b) Curves, H.P Bends	08 Numbers of HP Bands	10 Numbers of HP Bands																																																																																		
5	Existing Means of communication, mule path, jeep, Tracks etc.	Mule Path & Foot Tracks	Mule Path & Foot Tracks																																																																																		
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 of other important structures along this alignment.	Right of way is available for carrying out the construction work. There are no built up area, monuments of other important structures along this alignment.																																																																																		
7	Terrain & Soil Condition																																																																																				
	(i) Nature of soil	(i) The terrain is hilly and the soil is a mix of Earth and Boulders, Soft Rock, Hard Rock & Very Hard Rock	(i) The terrain is hilly and the soil is a mix of Earth and Boulders, Soft Rock, Hard Rock & Very Hard Rock																																																																																		
	(ii) Cliffs and gorges.	(ii) None	(ii) None																																																																																		
	(iii) Drainage characteristics of the area including suscepibility to flooding	(iii) The Natural Drainage characteristics of the area is good and there is no suscepibility to flooding	(iii) The Natural Drainage characteristics of the area is good and there is no suscepibility to flooding																																																																																		
	(vi) General elevation of the road indicating maximum and minimum height negotiated by main ascends and discends	(iv) The elevation at the starting point of the road is m and the elevation at the end point of the road is m. Thus the road achieves a height of m.	(iv) The elevation at the starting point of the road is m and the elevation at the end point of the road is m. Thus the road achieves a height of m.																																																																																		
	(v) Variations extants and types	Nil	Nil																																																																																		
8	Climate Condition																																																																																				
	(a) Temperature Monthly max. & min. reading.	(a) Temperature Monthly max. & Min. reading.	(a) Temperature Monthly max. & Min. reading.																																																																																		
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SI.No	Variables	Alignment No-1		Alignment No-2	
		3		4	
1		June	161	June	161
		July	350	July	350
		August	305	August	305
		September	210	September	210
		October	90	October	90
		November	7	November	7
		December	40	December	40
	(c) Snowfall data average annual peak intensities monthly distribution (to the extent available)	(c) Snowfall fall data average annual peak intensities monthly distribution		(c) Snowfall fall data average annual peak intensities monthly distribution	
		Month	Average Snowfall data (in mm)	Month	Average Snowfall data (in mm)
		January	80	January	80
		February	25	February	25
		March	-	March	-
		April	-	April	-
		May	-	May	-
		June	-	June	-
		July	-	July	-
		August	-	August	-
		September	-	September	-
		October	-	October	-
		November	-	November	-
		December	100	December	100
	(d) Wind direction and velocities.	(d) Not Available		(d) Not Available	
	(e) Fog Condition	(e) Nil		(e) Nil	
	(f) Exposure to sun	(f) The site is exposed to sun throughout the year.		(f) The site is exposed to sun throughout the year. Except 2 to 3 Months.	
	(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 burst in the area where the site is located.	
9	Facilities resources.				
	(a) Landing ground.	(a) None		(a) None	
	(b) Dropping Zone.	(b) None		(b) None	
	(c) Food stuffs.	(c) Adrak, Mirch, Lehsoon, Dhan, Ghehun, Aloo, Green Vegetable, Onion etc		(c) Adrak, Mirch, Lehsoon, Dhan, Ghehun, Aloo, Green Vegetable, Onion etc	
	(d) Labour local availability and need for import.	(d) Local labour is available for construction work.		(d) Local labour is available for construction work.	
	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved	(e) Stone require 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.		(e) Stone require 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.	
10	Value of land, agricultural land, Irrigated land, built up land, forest land etc,	Value of the land required for the construction of the road in this alignment is as under- As per current Govt. Rate		Value of the land required for the construction of the road in this alignment is as under- As per current Govt. Rate	
11	Approximate Const. Cost.	Rs. 259.00 Lacs		Rs. 284.00 Lacs	

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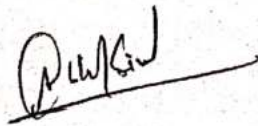
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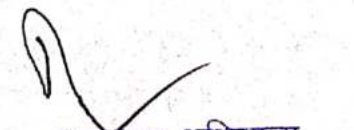
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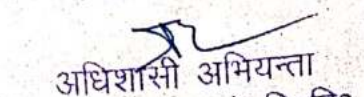
Sl.No	Variables	Alignment No-1	Alignment No-2
1	2	3	4
12	Access point indicating possibility of induction of equipment.	Access point available for induction of equipment	Access point available for induction of equipment
13	Period required for construction.	18 Months	20
14	Strategic Consideration.	Deployment 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 Umatta ,Chamali laga Umatta Sirtoli Bairfala, & Kanda Maikhura with a population of 934 numbers.	The road shall provide connectivity to village Umatta ,Chamali laga Umatta Sirtoli Bairfala, & Kanda Maikhura with a population of 934 numbers.
16	Recreational potential.	Nil	Nil
17	Economic Factors:		
	(a) Population served by the alignment.	(a) 934 Numbers	(a) 934 Numbers
	(b) Agricultures and economic potential of the area.	(b) Transporation lof the cultivated crops by mechanical means (i.e. through road) shall enchance the economical condition of the people residing in this area. Potential of the development of animal husbandry.	(b) Transporation lof the cultivated crops by mechanical means (i.e. through road) shall enchance the economical condition of the people residing in this area. Potential of the development of animal husbandry.
18	other major development projects being taken up electric projects etc.	None	None
19	(i) Misc. Such as camping sites	(i) Nil	(i) Nil
	(ii) Law and other problem	(ii) There is no significant law and order problem in the area and the loacl administration takes care of such matters.	(ii) There is no significant law and order problem in the area and the loacl administration takes care of such matters.
	(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	(iv) Available
	(v) working period available for construction of work.	(v) 09 Months	(v) 07 Months
20	Total No. of trees to be removed .	292 Numbers	Approximately 300 Numbers
21	Average Density of forest cover .	0. (Dense Forest)	0. (Dense Forest)
22	Total No. of Merits	23	0
23	Total No. of Demerits	15	8

RECOMMENDATIONS :

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


JE


सहायक अभियन्ता
प्रान्तीय खण्ड लो०नि०वि०
कर्णप्रयाग


अधिशारी अभियन्ता
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