

Performa for comparison between identified alignments

Page 1 of 4

Name of Work :- New Construction of Simli-Sheleshwar Motor Road in Karnprayag Constituency of District Chamoli.

Sl.No	Variables	Alignment No-1	Alignment No-2																																																										
1	2	3	4																																																										
1	Topography	Road is proposed to connect Simli-Sheleshwar road to Naini motor road via Kanot, Malla Gwad. Alignment is proposed to startfrom Km 12.00 of Simli-Sheleshwar road.	Same as Alignment No. 1.																																																										
2	Length of Road	3.450 Km	4.000 Km																																																										
3	Bridging requirement No. and Length	Nil	Nil																																																										
4	Geometric																																																												
	(a) Gradients	1:18, 1:20, 1.24 & 1:40	1:15, 1:18 & 1:20																																																										
	(b) Curves, H.P Bends	04 Numbers of HP Bands	06 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 Roack, Hard Rock & Very Hard Rock	(i) The terrain is hilly and the soil is a mix of Earth and Boulders, Soft Roack, Hard Rock & Very Hard Rock																																																										
	(ii) Cliffs and gorges.	(ii) None	(ii) None																																																										
	(iii) Drainage characteristics of the area including supceptibility to flooding	(iii) The Natural Drainage characteristics of the area is good and there is no susceptibility to flooding	(iii) The Natural Drainage characteristics of the area is good and there is no susceptibility 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 1106 m and the elevation at the end point of the road is 1376 m. Thus the road achieves a height of 270 m.	(iv) The elevation at the starting point of the road is 1106 m and the elevation at the end point of the road is 1376 m. Thus the road achieves a height of 284 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.																																																										
		<table><tr><th rowspan="2">Month</th><th colspan="2">Temperature (in °C)</th></tr><tr><th>Max.</th><th>Min.</th></tr><tr><td>January</td><td>20</td><td>-1</td></tr><tr><td>February</td><td>25</td><td>8</td></tr><tr><td>March</td><td>28</td><td>10</td></tr><tr><td>April</td><td>28</td><td>15</td></tr><tr><td>May</td><td>35</td><td>20</td></tr><tr><td>June</td><td>36</td><td>24</td></tr><tr><td>July</td><td>32</td><td>19</td></tr><tr><td>August</td><td>30</td><td>17</td></tr></table>	Month	Temperature (in °C)		Max.	Min.	January	20	-1	February	25	8	March	28	10	April	28	15	May	35	20	June	36	24	July	32	19	August	30	17	<table><tr><th rowspan="2">Month</th><th colspan="2">Temperature (in °C)</th></tr><tr><th>Max.</th><th>Min.</th></tr><tr><td>January</td><td>20</td><td>-1</td></tr><tr><td>February</td><td>25</td><td>8</td></tr><tr><td>March</td><td>28</td><td>10</td></tr><tr><td>April</td><td>28</td><td>15</td></tr><tr><td>May</td><td>35</td><td>20</td></tr><tr><td>June</td><td>36</td><td>24</td></tr><tr><td>July</td><td>32</td><td>19</td></tr><tr><td>August</td><td>28</td><td>17</td></tr></table>	Month	Temperature (in °C)		Max.	Min.	January	20	-1	February	25	8	March	28	10	April	28	15	May	35	20	June	36	24	July	32	19	August	28	17
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Page 3 of 4

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Sl.No	Variables	Alignment No-1	Alignment No-2
1	2	3	4
	(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) At site	(b)At site
	(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 37.80 Lacs	Rs. 40.00 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	15 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 Chatingyala,koti Nauli ,Hindoli with a population of numbers.	The road shall provide connectivity to village Chatingyala,koti Nauli ,Hindoli with a population of numbers.
16	Recreational potential.	Nil	Nil
17	Economic Factors:		
	(a) Population served by the alignment.	(a) 1114	(a) 1114

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Constituency of District Chamoli.

Sl.No	Variables	Alignment No-1			Alignment No-2		
1	2	3			4		
		September	28	13	September	28	13
		October	18	9	October	18	9
		November	21	5	November	21	5
		December	18	-1	December	18	-1
	(b) Rainfall data average annual peak intensities monthly distribution (to the extent available)	(b) Rainfall data average annual peak intensities monthly distribution			(b) Rainfall data average annual peak intensities monthly distribution		
		Month	Average Rainfall data (in mm)		Month	Average Rainfall data (in-mm)	
		January	40		January	40	
		February	33		February	33	
		March	28		March	28	
		April	25		April	25	
		May	20		May	20	
		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	50		January	50	
		February	10		February	10	
		March	-		March	-	
		April	-		April	-	
		May	-		May	-	
		June	-		June	-	
		July	-		July	-	
		August	-		August	-	
		September	-		September	-	
		October	-		October	-	
		November	-		November	-	
		December	80		December	80	
	(d) Wind direction and velocities.	(d) Towards north – east @ 20 km / h			(d) Towards north – east @ 20 km / h		
	(e) Fog Condition	(e) Nil			(e) Nil		

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Sl.No	Variables	Alignment No-1	Alignment No-2
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	(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) 09 Months
20	Total No. of trees to be removed .	134 Numbers	Approximately 200 Numbers
21	Average Density of forest cover .	0.4 (Dense Forest)	0.7 (Dense Forest)
22	Total No. of Merits		
23	Total No. of Demerits		

RECOMMENDATIONS :

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

कनिष्ठ अभियन्ता
प्रान्तीय खण्ड लो० नि० वि०
कर्णप्रयाग

सहायक अभियन्ता
प्र० ख० लो० नि० वि०
कर्णप्रयाग

अधिसासी अभियन्ता
प्रान्तीय खण्ड लो० नि० वि०
कर्णप्रयाग [चमोली]