

(2.3)

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Performa for comparison between identified alignments

कार्य का नाम :- माननीय मुख्यमंत्री की घोषणा संख्या 375/2012 के अंतर्गत जनपद चमोली के विकास खंड कर्णप्रयाग में शहीद भगतसिंह मार्ग (तेफना कण्डारा मोटर मार्ग) के कि.मी. 3 से चटिंग्याला कोटी, नौली, हिण्डोली होते हुए सोनला कण्डारा मोटर मार्ग के कि.मी. 16 तक मोटर मार्ग का नव निर्माण।

Sl.No	Variables	Alignment No-1	Alignment No-2																																								
1	2	3	4																																								
1	Topography	Road is proposed to connect TEFANA KANDARA road (Shaheed Bhagat Singh Marg) to SONLA-KANDARA motor road via CHATINGYALA - KOTI - NAULI - HINDOLI. Alignment is proposed to start from Km 3.00 of Tefana-Kandara road, (Constructed length 05 Km) which itself is starting from Km 2.50 of Nandprayag Ghat motor road.	Same as Alignment No. 1.																																								
2	Length of Road	7.675 Km	8.225 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	13 Numbers of HP Bands	15 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																																								
	(iv) 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 1376m. 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 border="1"> <thead> <tr> <th rowspan="2">Month</th> <th colspan="2">Temperature (in °C)</th> <th rowspan="2">Month</th> <th colspan="2">Temperature (in °C)</th> </tr> <tr> <th>Max.</th> <th>Min.</th> <th>Max.</th> <th>Min.</th> </tr> </thead> <tbody> <tr> <td>January</td> <td>20</td> <td>-1</td> <td>January</td> <td>20</td> <td>-1</td> </tr> <tr> <td>February</td> <td>25</td> <td>8</td> <td>February</td> <td>25</td> <td>8</td> </tr> <tr> <td>March</td> <td>28</td> <td>10</td> <td>March</td> <td>28</td> <td>10</td> </tr> <tr> <td>April</td> <td>30</td> <td>15</td> <td>April</td> <td>28</td> <td>15</td> </tr> <tr> <td>May</td> <td>35</td> <td>20</td> <td>May</td> <td>35</td> <td>20</td> </tr> </tbody> </table>	Month	Temperature (in °C)		Month	Temperature (in °C)		Max.	Min.	Max.	Min.	January	20	-1	January	20	-1	February	25	8	February	25	8	March	28	10	March	28	10	April	30	15	April	28	15	May	35	20	May	35	20	
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पर्य का नाम :- माननीय मुख्यमंत्री की घोषणा संख्या 375/2012 के अंतर्गत जनपद चमोली के विकास खंड र्णप्रयाग में शहीद भगतसिंह मार्ग (लेफना कण्डारा मोटर मार्ग) के कि.मी. 3 से चटिंग्याला कोटी, नौली, हेण्डोली होते हुए सोनला कण्डारा मोटर मार्ग के कि.मी. 16 तक मोटर मार्ग का नव निर्माण।

Sl.No	Variables	Alignment No-1			Alignment No-2		
1	2	3			4		
		June	38	24	June	38	24
		July	34	19	July	34	19
		August	28	17	August	28	17
		September	26	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			January	50	
		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	60		January	80	
		February	10		February	12	
		March	-		March	-	
		April	-		April	-	
		May	-		May	-	
		June	-		June	-	
		July	-		July	-	
		August	-		August	-	
		September	-		September	-	
		October	-		October	-	
		November	-		November	-	
		December	80		December	100	
	(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		

Performa for comparison between identified alignments

बर्ड का नाम :- माननीय मुख्यमंत्री की घोषणा संख्या 375/2012 के अंतर्गत जनपद चमंगली के विकास क्षेत्र
 चमंगली में शहीद भगतसिंह मार्ग (तेफना कण्ठारा मोटर मार्ग) के कि.मी. 3 से चटिम्बाला कोटी, नौली, हिन्दोली
 तक हुए सोनला कण्ठारा मोटर मार्ग के कि.मी. 16 तक मोटर मार्ग का नव निर्माण।

Sl.No	Variables	Alignment No-1	Alignment No-2
1	2	3	4
	(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) 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. 94 Lacs	Rs. 329.00 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.	19 Months	21 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) 1901	(a) 1901

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Sl.No	Variables	Alignment No-1	Alignment No-2
1	2	3	4
	(b) Agricultures and economic potential of the area.	(b) Transporation lof the cultivated crops by mechanical means (i.e. through road) shall enhance 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 enhance 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) 10 Months	(v) 8 Months
20	Total No. of trees to be removed .	358 Numbers	Approximately 450 Numbers
21	Average Density of forest cover .	0.4 (Dense Forest)	0.7 (Dense Forest)
22	Total No. of Merits	15	8
23	Total No. of Demerits	4	11

RECOMMENDATIONS :

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

J.E

A.E

E.E

जिला प्रमुख, चमोली जिला, उत्तरांचल प्रदेश