

Name of the Work- Construction of Bagoli to Chula Motor Road under PMGSY

**Comparison between identified alignments**

Sl. No.	Variables	Alignment No-1	Alignment No-2																																																																																		
1	Topography	Mountainous	Mountainous																																																																																		
2	Length of Road	7.275 km	9.00 km																																																																																		
3	Bridging requirement No. and Length	Nil	Nil																																																																																		
4	Geometric																																																																																				
	(a) Gradients	01:20	01:20																																																																																		
	(b) Curves, H.P Bends	numbers of H.P. Bends	numbers of 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 out the construction work. There are no built up area, monuments or other important structures along this alignment																																																																																		
7	(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																																																																																		
	(ii) Drainage characteristics of the area including susceptibility to flooding .	(ii) The natural Drainage characteristics of the area is good and there is no susceptibility to flooding	(ii) The natural Drainage characteristics of the area is good and there is no susceptibility to flooding.																																																																																		
	(iii) General elevation of the road indicating maximum and minimum height negotiated by main ascends and descends.	(iii) The General elevation of the road is m. 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.	(iii) The General elevation of the road is m. 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) Variations extant and types.	52/100 (Attached after comprative)	52/ 100 (Attached after comprative)																																																																																		
8	Climate Condition:																																																																																				
	(a) Temperature Monthly max. & min. reading. Source:-climate-data.org/ (print attached)	(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>18</td><td>5</td><td>January</td><td>18</td><td>5</td></tr> <tr><td>Feb.</td><td>19</td><td>6</td><td>Feb.</td><td>19</td><td>6</td></tr> <tr><td>March</td><td>21</td><td>10</td><td>March</td><td>21</td><td>10</td></tr> <tr><td>April</td><td>30</td><td>15</td><td>April</td><td>30</td><td>15</td></tr> <tr><td>May</td><td>32</td><td>19</td><td>May</td><td>32</td><td>19</td></tr> <tr><td>June</td><td>33</td><td>21</td><td>June</td><td>33</td><td>21</td></tr> <tr><td>July</td><td>26</td><td>21</td><td>July</td><td>26</td><td>21</td></tr> <tr><td>August</td><td>27</td><td>19</td><td>August</td><td>27</td><td>19</td></tr> <tr><td>September</td><td>27</td><td>18</td><td>September</td><td>27</td><td>18</td></tr> <tr><td>October</td><td>24</td><td>12</td><td>October</td><td>24</td><td>12</td></tr> <tr><td>November</td><td>20</td><td>9</td><td>November</td><td>20</td><td>9</td></tr> <tr><td>December</td><td>18</td><td>6</td><td>December</td><td>18</td><td>6</td></tr> </tbody> </table>	Month	Temperature (in °C)		Month	Temperature (in °C)		Max.	Min.	Max.	Min.	January	18	5	January	18	5	Feb.	19	6	Feb.	19	6	March	21	10	March	21	10	April	30	15	April	30	15	May	32	19	May	32	19	June	33	21	June	33	21	July	26	21	July	26	21	August	27	19	August	27	19	September	27	18	September	27	18	October	24	12	October	24	12	November	20	9	November	20	9	December	18	6	December	18	6	
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	(b) Rainfall data average annual peak intensities monthly distribution (to the	(b) Rainfall data average annual peak intensities monthly distribution	(b) Rainfall data average annual peak intensities monthly distribution																																																																																		

Sl. No.	Variables	Alignment No-1		Alignment No-2	
	extent available) Source:-climate-data.org/ (print attached)	Month	Average Rainfall Data (in mm)	Month	Average Rainfall Data (in mm)
		January	74	January	74
		Feb.	67	Feb.	67
		March	71	March	71
		April	30	April	30
		May	47	May	47
		June	146	June	146
		July	390	July	390
		August	371	August	371
		September	185	September	185
		October	75	October	75
		November	10	November	10
		December	26	December	26
	(c) Snowfall data average annual peak intensities monthly distribution (to the extent available) .	(c) Snowfall data not available		(c) Snowfall data not available	
	(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.		(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.	
	(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.		(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.	
	(f) Exposure to sun.	(f) The site is exposed to sun throughout the year.		(f) The site is exposed to sun 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 since last 15 years where the site is located.(source:- Gram pradhan and villagers)		(g) There is no record of unusual weather condition like cloud burst in the area since last 15 years where the site is located.(source:- Gram pradhan and villagers)	
9	Facilities resources.				
	(a) Landing ground.	(a) None		(a) None	
	(b) Dropping Zone.	(b) None		(b) None	
	(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 for construction work.	

Sl. No.	Variables	Alignment No-1	Alignment No-2
	(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 40 km.	(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 40 km.
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-  Private land 2.975Hect@150000= Rs 446250.00  Civil land 2.118Hect@935000.00= Rs 1980330.00 Thus total value of land = Rs. 2426580.00	Value of the land required for the construction of the road in this alignment is as under-  Private land 2.975Hect@150000= Rs 446250.00  Civil land 3.326Hect@935000.00= Rs 3109810.00 Thus total value of land = Rs. 3556060.00
11	Approximate Const. Cost.	Rs. lacs	Rs. 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.	18months	18 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-chula with a population of 325 numbers.	The road shall provide connectivity to Village-Chula with a population of 325 numbers.
16	Recreational potential.	Nil	Nil
17	Economic Factors: (a) Population served by the alignment. (b) Agricultures and economic potential of the area.	(a) 574 numbers  (b) Transportation of 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.	(a) 574 numbers  (b) Transportation of 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  (ii) Law and other problem	(i) Camping sites to be located along the alignment of the road.  (ii) There is no significant law and order problem in the area since last 15 years and the local administration takes care of such matters. (source: Gram pradhan and villagers)	(i) Camping sites to be located along the alignment of the road.  (ii) There is no significant law and order problem in the area since last 15 years and the local administration takes care of such matters. ( source Gram pradhan and villagers)

Sl. No.	Variables	Alignment No-1	Alignment No-2
	(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 .	131 numbers	Approximately 225 numbers.
21	Average Density of forest cover .	0.8 (Dense Forest)	0.8 (Dense Forest)
22	Total No. of Merits	17	11
23	Total No. of Demerits	04	10

**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.

J.E. *[Signature]*  
AAZ

*[Signature]*  
 सहायक अभियन्ता  
 पी.एम.जी.एस.वाई. खण्ड  
 लो.नि.वि. कर्णप्रयाग (चमोली)

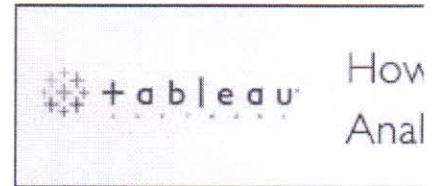
*[Signature]*  
 Executive Engineer  
 P.M.G.S.Y. DIV  
 PWD Karanprayag (Chamoli)

*[Signature]*  
 प्रभाजी *[Signature]* अधिकारी  
 D.F.O.  
 बद्राज वन विभाग  
 नौपखुंड (चमोली)

*[Signature]*  
 वन क्षेत्राधिकारी  
 असेंड सिमली  
 नारायणबगड



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▶ The climate is warm and ter  
summers here have a good  
have very little. This location  
and Geiger. The average ter  
19.9 °C. Precipitation here a

## CLIMATE GRAPH

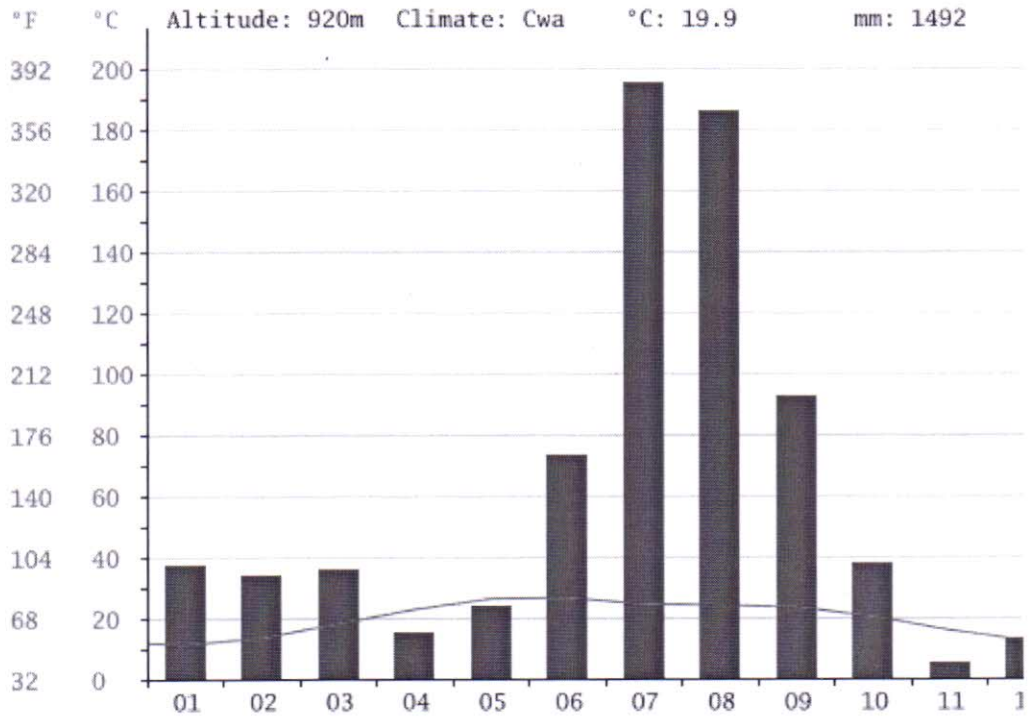
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### Top 7 Weather Stations

### Cell Phone Gps Locator



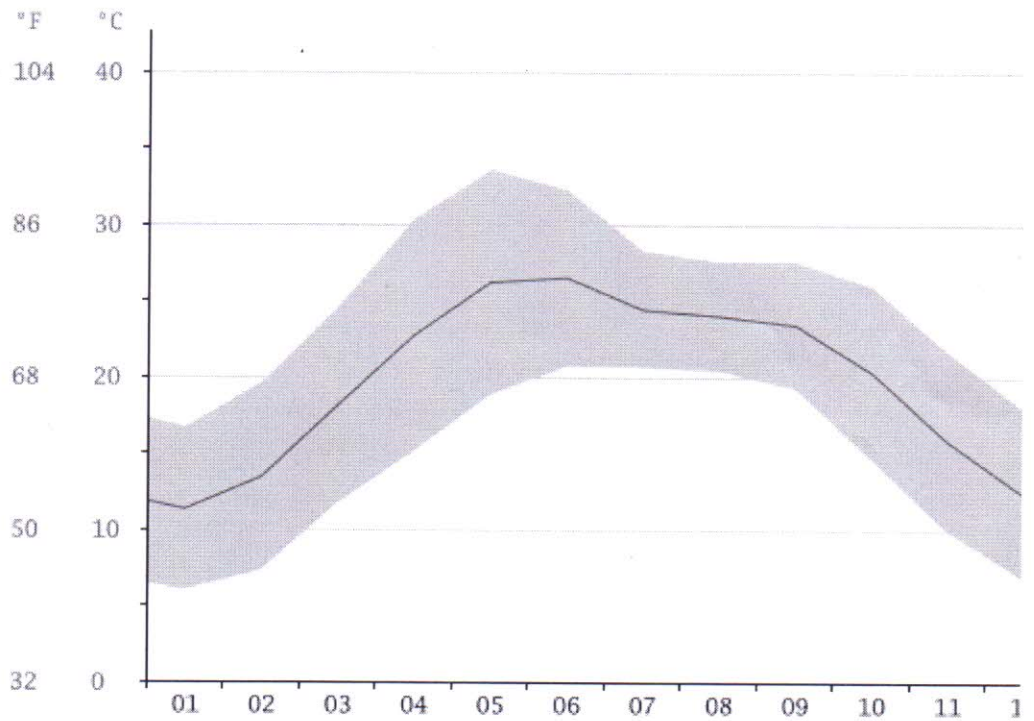
The driest month is November, with 10 mm of rainfall. Most of the precipitation her mm.

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## TEMPERATURE GRAPH



The warmest month of the year is June, with an average temperature of 26.5 °C. J with temperatures averaging 11.3 °C.

## CLIMATE TABLE

month	1	2	3	4	5	6	7	8	9	10
mm	74	67	71	30	47	146	390	371	185	75
°C	11.3	13.4	18.1	22.7	26.2	26.5	24.4	24.0	23.4	20.3
°C (min)	6.0	7.3	11.7	15.1	18.8	20.7	20.6	20.4	19.2	14.6
°C (max)	16.7	19.6	24.6	30.4	33.6	32.3	28.3	27.6	27.6	26.0
°F	52.3	56.1	64.6	72.9	79.2	79.7	75.9	75.2	74.1	68.5
°F (min)	42.8	45.1	53.1	59.2	65.8	69.3	69.1	68.7	66.6	58.3
°F (max)	62.1	67.3	76.3	86.7	92.5	90.1	82.9	81.7	81.7	78.8

The difference in precipitation between the driest month and the wettest month is 3 temperatures vary by 15.2 °C.

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