

### Performa for comparison between identified alignments

Name of work- Construction of Koti band to Ghatora Motor road and 2 R.C.C Bridge in District Chamoli

Sl.No	Variables	Alignment No-1	Alignment No-2																																																																																		
1	2	3	4																																																																																		
1	Topography	start fromBagoli koti Motor Road in K.M. 11.00 ( H.M 4-6)	start fromBagoli koti Motor Road in K.M. 11.00 ( H.M 4-6)																																																																																		
2	Length of Road	5.00 Km	5.00 Km																																																																																		
3	Bridging requirement No. and Length	Nil	Nil																																																																																		
4	Geometric																																																																																				
	(a) Gradients	1:22 1:24 1:60 1:20	1:15 1:17 1:20																																																																																		
	(b) Curves, H.P Bends	2 HP Bands	5 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 susceptiblity to flooding	(iii) The Natural Drainage characteristics of the area is good and there is no susceptiblity 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 1660 m and the elevation at the end point of the road is 1540 m.	(iv) The elevation at the starting point of the road is 1780m and the elevation at the end point of the road is 1550 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>10</td><td>-1</td></tr><tr><td>February</td><td>12</td><td>5</td></tr><tr><td>March</td><td>20</td><td>14</td></tr><tr><td>April</td><td>25</td><td>18</td></tr><tr><td>May</td><td>32</td><td>20</td></tr><tr><td>June</td><td>35</td><td>24</td></tr><tr><td>July</td><td>34</td><td>19</td></tr><tr><td>August</td><td>28</td><td>17</td></tr><tr><td>September</td><td>28</td><td>13</td></tr><tr><td>October</td><td>16</td><td>9</td></tr><tr><td>November</td><td>15</td><td>8</td></tr><tr><td>December</td><td>11</td><td>-1</td></tr></table>	Month	Temperature (in °C)		Max.	Min.	January	10	-1	February	12	5	March	20	14	April	25	18	May	32	20	June	35	24	July	34	19	August	28	17	September	28	13	October	16	9	November	15	8	December	11	-1	<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>10</td><td>-1</td></tr><tr><td>February</td><td>12</td><td>5</td></tr><tr><td>March</td><td>20</td><td>14</td></tr><tr><td>April</td><td>25</td><td>18</td></tr><tr><td>May</td><td>32</td><td>20</td></tr><tr><td>June</td><td>35</td><td>24</td></tr><tr><td>July</td><td>34</td><td>19</td></tr><tr><td>August</td><td>28</td><td>17</td></tr><tr><td>September</td><td>28</td><td>13</td></tr><tr><td>October</td><td>16</td><td>9</td></tr><tr><td>November</td><td>15</td><td>8</td></tr><tr><td>December</td><td>11</td><td>-1</td></tr></table>	Month	Temperature (in °C)		Max.	Min.	January	10	-1	February	12	5	March	20	14	April	25	18	May	32	20	June	35	24	July	34	19	August	28	17	September	28	13	October	16	9	November	15	8	December	11	-1
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Sl.No	Variables	Alignment No-1		Alignment No-2	
	(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	50	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		(c) Snowfall fall data average annual	
		Month	Average Snowfall	Month	Average Snowfall
		January	70	January	70
		February	30	February	30
		March	-	March	-
		April	-	April	-
		May	-	May	-
		June	-	June	-
		July	-	July	-
		August	-	August	-
		September	-	September	-
		October	-	October	-
		November	30	November	30
		December	70	December	70
	(d) Wind direction and veiocities.	(d) Towards north – east @ 20 km / h		(d) Towards north – east @ 20 km / h	
	(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	<b>Facilities resources.</b>				
	(a) Landing ground.	(a) None		(a) None	
	(b) Dropping Zone.	(b) At site		(b) At site	
	(c) Food stuffs.	(c) Lehsoun, Dhan, Ghehun, Aloo, Green Vegetable, Onion etc		(c) Lehsoun, Dhan, Ghehun, Aloo, Green Vegetable, Onion etc	
	(d) Labour local availability and need for import.	(d) Local labour is available for costruction work.		(d) Local labour is available for costruction work.	
	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved	(e) Stone require for the costruction 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 costruction 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.	



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Sl.No	Variables	Alignment No-1	Alignment No-2
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.65.45 Lacs	Rs. 70.00 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.	15 Months	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 Ghatora & Trikot with a population of numbers.	The road shall provide connectivity to village Ghatora & Trikot with a population of numbers.
16	Recreational potential.	Nil	Nil
17	Economic Factors:		
	(a) Population served by the alignment.	(a) 892	(a) 892
	(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 .	84 MO	150 MO
21	Average Density of forest cover .	-	-
22	Total No. of Merits	16	12
23	Total No. of Demerits	-	4

**Recommendations:-**

Alignment no.(1) recommended for approval being more economical, useful & technically feasible.

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