

परियोजना का नाम— जनपद चमोली में विधानसभा क्षेत्र कर्णप्रयाग के अन्तर्गत
सिमली-चूलाकोट मोटर मार्ग के किमी. 5.00 से स्वर्का बैण्ड से
हरिजन बस्ती राजस्व ग्राम कलाकोट होते हुए स्वीकृत मार्ग
बनियास तक नव निर्माण का कार्य।

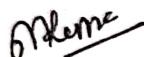
वैकल्पिक समरेखणों को निरस्त किये जाने का प्रमाण-पत्र।

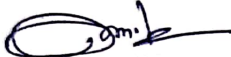
प्रस्तावित परियोजना हेतु तीन समरेखणों पर विचार किया गया। समरेखण संख्या -2 एवं 3 में
ग्रामवासियों द्वारा विवाद होने के कारण निरस्त किया गया। समरेखण संख्या 1 स्थाई भू-भाग पर होने
के कारण उचित पाया गया जो कि प्रस्तावित हैं।


समरेखण नं.-1:- प्रस्तावित समरेखण भू-वैज्ञानिक की दृष्टि से स्थायित्व वाली भूमि है, जो मार्ग
निर्माण हेतु उचित है।


समरेखण नं.-2:- इस समरेखण पर ग्रामवासियों द्वारा विवाद होने के कारण इसे निरस्त किया गया है।

समरेखण नं.-3:- इस समरेखण पर ग्रामवासियों द्वारा विवाद होने के कारण इसे निरस्त किया गया है।


अमीन
लो.नि.वि.


कनिष्ठ अभियन्ता
लो.नि.वि.
कर्णप्रयाग


सहायक अभियन्ता
लो.नि.वि.
कर्णप्रयाग


अधिसासी अभियन्ता
प्रान्तीय खण्ड लो.नि.वि.
कर्णप्रयाग।

Performa for comparison between identified alignments

कार्य का नाम :- जनपद चमोली में विधानसभा क्षेत्र कर्णप्रयाग के अन्तर्गत शिमली-चूलाकोट मोटर मार्ग के किमी. 5.00 से स्वर्का बैंड से हरिजन बस्ती राजस्व ग्राम कलाकोट होते हुए स्वीकृत मार्ग बनियास तक नव निर्माण का कार्य। (3.250 किमी.)

Sl.No	Variables	Alignment No-1	Alignment No-2	Alignment No-3																																																																																																																														
1	2	3	4	5																																																																																																																														
2	Topography	Mountainous, start from Simli-Chulakot Motor Road Km 05 Geologically, the road alignment site area falls under Lesser Himalayan sequences of Garhwal Himalaya in the vicinity of thrust contact between Nagthat and Rautgara formations of Jaunsar and Dandhara groups respectively. 3.250Km	Mountainous, start from Simli-Chulakot Motor Road Km 05 Geologically, the road alignment site area falls under Lesser Himalayan sequences of Garhwal Himalaya in the vicinity of thrust contact between Nagthat and Rautgara formations of Jaunsar and Dandhara groups respectively. 3.380Km	Mountainous, start from Simli-Chulakot Motor Road Km 05 Geologically, the road alignment site area falls under Lesser Himalayan sequences of Garhwal Himalaya in the vicinity of thrust contact between Nagthat and Rautgara formations of Jaunsar and Dandhara groups respectively. 3.300Km																																																																																																																														
3	Length of Road																																																																																																																																	
4	Bridging requirement No. and Length	Nil	Nil	Nil																																																																																																																														
5	Geometric																																																																																																																																	
6	(a) Gradients	1:24 R, 1:20 R, 1:40 R, 1:60 R	1:18 R, 1:20 R, 1:40 R	1:18 R, 1:20 R, 1:40 R																																																																																																																														
7	(b) Curves, H.P Bends	02 Numbers of HP Bands	02 Numbers of HP Bands	02 Numbers of HP Bands																																																																																																																														
8	Existing Means of communication, mule path, jeep, Tracks etc.	Mule Path & Foot Tracks	Mule Path & Foot Tracks	Mule Path & Foot Tracks																																																																																																																														
9	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.	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.																																																																																																																														
10	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	(i) The terrain is hilly and the soil is a mix of Earth and Boulders, Soft Rock, Hard Rock	(i) The terrain is hilly and the soil is a mix of Earth and Boulders, Soft Rock, Hard Rock																																																																																																																														
	(ii) Cliffs and gorges.	(ii) None	(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	(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 descends	(iv) The elevation at the starting point of the road is 1160 m and the elevation at the end point of the road is 1367 m. Thus the road achieves a height of m.	(iv) The elevation at the starting point of the road is 1160 m and the elevation at the end point of the road is 1367 m. Thus the road achieves a height of m.	(iv) The elevation at the starting point of the road is 1160 m and the elevation at the end point of the road is 1367 m. Thus the road achieves a height of m.																																																																																																																														
	(v) Variations extants and types	Nil	Nil	Nil																																																																																																																														
11	Climate Condition																																																																																																																																	
	(a) Temperature Monthly max. & min. reading.	(a) Temperature Monthly max. & Min. reading.	(a) Temperature Monthly max. & Min. reading.	(a) Temperature Monthly max. & Min. reading.																																																																																																																														
		<table><tr><th>Month</th><th colspan="2">Temperature (in °C)</th></tr><tr><td></td><th>Max.</th><th>Min.</th></tr><tr><td>January</td><td>15</td><td>4</td></tr><tr><td>February</td><td>20</td><td>8</td></tr><tr><td>March</td><td>24</td><td>10</td></tr><tr><td>April</td><td>27</td><td>15</td></tr><tr><td>May</td><td>30</td><td>17</td></tr><tr><td>June</td><td>32</td><td>15</td></tr><tr><td>July</td><td>29</td><td>14</td></tr><tr><td>August</td><td>25</td><td>13</td></tr><tr><td>September</td><td>22</td><td>9</td></tr><tr><td>October</td><td>15</td><td>6</td></tr><tr><td>November</td><td>10</td><td>4</td></tr><tr><td>December</td><td>15</td><td>4</td></tr></table>	Month	Temperature (in °C)			Max.	Min.	January	15	4	February	20	8	March	24	10	April	27	15	May	30	17	June	32	15	July	29	14	August	25	13	September	22	9	October	15	6	November	10	4	December	15	4	<table><tr><th>Month</th><th colspan="2">Temperature (in °C)</th></tr><tr><td></td><th>Max.</th><th>Min.</th></tr><tr><td>January</td><td>15</td><td>4</td></tr><tr><td>February</td><td>20</td><td>8</td></tr><tr><td>March</td><td>23</td><td>10</td></tr><tr><td>April</td><td>25</td><td>15</td></tr><tr><td>May</td><td>28</td><td>16</td></tr><tr><td>June</td><td>29</td><td>14</td></tr><tr><td>July</td><td>27</td><td>11</td></tr><tr><td>August</td><td>26</td><td>9</td></tr><tr><td>September</td><td>21</td><td>6</td></tr><tr><td>October</td><td>16</td><td>5</td></tr><tr><td>November</td><td>10</td><td>3</td></tr><tr><td>December</td><td>15</td><td>4</td></tr></table>	Month	Temperature (in °C)			Max.	Min.	January	15	4	February	20	8	March	23	10	April	25	15	May	28	16	June	29	14	July	27	11	August	26	9	September	21	6	October	16	5	November	10	3	December	15	4	<table><tr><th>Month</th><th colspan="2">Temperature (in °C)</th></tr><tr><td></td><th>Max.</th><th>Min.</th></tr><tr><td>January</td><td>15</td><td>4</td></tr><tr><td>February</td><td>20</td><td>8</td></tr><tr><td>March</td><td>24</td><td>10</td></tr><tr><td>April</td><td>27</td><td>15</td></tr><tr><td>May</td><td>30</td><td>17</td></tr><tr><td>June</td><td>32</td><td>15</td></tr><tr><td>July</td><td>29</td><td>14</td></tr><tr><td>August</td><td>25</td><td>13</td></tr><tr><td>September</td><td>22</td><td>9</td></tr><tr><td>October</td><td>15</td><td>6</td></tr><tr><td>November</td><td>10</td><td>4</td></tr><tr><td>December</td><td>15</td><td>4</td></tr></table>	Month	Temperature (in °C)			Max.	Min.	January	15	4	February	20	8	March	24	10	April	27	15	May	30	17	June	32	15	July	29	14	August	25	13	September	22	9	October	15	6	November	10	4	December	15	4
Month	Temperature (in °C)																																																																																																																																	
	Max.	Min.																																																																																																																																
January	15	4																																																																																																																																
February	20	8																																																																																																																																
March	24	10																																																																																																																																
April	27	15																																																																																																																																
May	30	17																																																																																																																																
June	32	15																																																																																																																																
July	29	14																																																																																																																																
August	25	13																																																																																																																																
September	22	9																																																																																																																																
October	15	6																																																																																																																																
November	10	4																																																																																																																																
December	15	4																																																																																																																																
Month	Temperature (in °C)																																																																																																																																	
	Max.	Min.																																																																																																																																
January	15	4																																																																																																																																
February	20	8																																																																																																																																
March	23	10																																																																																																																																
April	25	15																																																																																																																																
May	28	16																																																																																																																																
June	29	14																																																																																																																																
July	27	11																																																																																																																																
August	26	9																																																																																																																																
September	21	6																																																																																																																																
October	16	5																																																																																																																																
November	10	3																																																																																																																																
December	15	4																																																																																																																																
Month	Temperature (in °C)																																																																																																																																	
	Max.	Min.																																																																																																																																
January	15	4																																																																																																																																
February	20	8																																																																																																																																
March	24	10																																																																																																																																
April	27	15																																																																																																																																
May	30	17																																																																																																																																
June	32	15																																																																																																																																
July	29	14																																																																																																																																
August	25	13																																																																																																																																
September	22	9																																																																																																																																
October	15	6																																																																																																																																
November	10	4																																																																																																																																
December	15	4																																																																																																																																
	(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	(b) Rainfall data average annual peak intensities monthly distribution																																																																																																																														
		<table><tr><th>Month</th><th>Average Rainfall data (in mm)</th></tr><tr><td>January</td><td>70</td></tr><tr><td>February</td><td>30</td></tr><tr><td>March</td><td>28</td></tr><tr><td>April</td><td>25</td></tr><tr><td>May</td><td>20</td></tr><tr><td>June</td><td>161</td></tr><tr><td>July</td><td>350</td></tr><tr><td>August</td><td>305</td></tr><tr><td>September</td><td>210</td></tr><tr><td>October</td><td>90</td></tr><tr><td>November</td><td>7</td></tr><tr><td>December</td><td>40</td></tr></table>	Month	Average Rainfall data (in mm)	January	70	February	30	March	28	April	25	May	20	June	161	July	350	August	305	September	210	October	90	November	7	December	40	<table><tr><th>Month</th><th>Average Rainfall data (in mm)</th></tr><tr><td>January</td><td>65</td></tr><tr><td>February</td><td>30</td></tr><tr><td>March</td><td>28</td></tr><tr><td>April</td><td>25</td></tr><tr><td>May</td><td>20</td></tr><tr><td>June</td><td>161</td></tr><tr><td>July</td><td>350</td></tr><tr><td>August</td><td>305</td></tr><tr><td>September</td><td>210</td></tr><tr><td>October</td><td>90</td></tr><tr><td>November</td><td>7</td></tr><tr><td>December</td><td>40</td></tr></table>	Month	Average Rainfall data (in mm)	January	65	February	30	March	28	April	25	May	20	June	161	July	350	August	305	September	210	October	90	November	7	December	40	<table><tr><th>Month</th><th>Average Rainfall data (in mm)</th></tr><tr><td>January</td><td>70</td></tr><tr><td>February</td><td>30</td></tr><tr><td>March</td><td>28</td></tr><tr><td>April</td><td>25</td></tr><tr><td>May</td><td>20</td></tr><tr><td>June</td><td>161</td></tr><tr><td>July</td><td>350</td></tr><tr><td>August</td><td>305</td></tr><tr><td>September</td><td>210</td></tr><tr><td>October</td><td>90</td></tr><tr><td>November</td><td>7</td></tr><tr><td>December</td><td>40</td></tr></table>	Month	Average Rainfall data (in mm)	January	70	February	30	March	28	April	25	May	20	June	161	July	350	August	305	September	210	October	90	November	7	December	40																																																
Month	Average Rainfall data (in mm)																																																																																																																																	
January	70																																																																																																																																	
February	30																																																																																																																																	
March	28																																																																																																																																	
April	25																																																																																																																																	
May	20																																																																																																																																	
June	161																																																																																																																																	
July	350																																																																																																																																	
August	305																																																																																																																																	
September	210																																																																																																																																	
October	90																																																																																																																																	
November	7																																																																																																																																	
December	40																																																																																																																																	
Month	Average Rainfall data (in mm)																																																																																																																																	
January	65																																																																																																																																	
February	30																																																																																																																																	
March	28																																																																																																																																	
April	25																																																																																																																																	
May	20																																																																																																																																	
June	161																																																																																																																																	
July	350																																																																																																																																	
August	305																																																																																																																																	
September	210																																																																																																																																	
October	90																																																																																																																																	
November	7																																																																																																																																	
December	40																																																																																																																																	
Month	Average Rainfall data (in mm)																																																																																																																																	
January	70																																																																																																																																	
February	30																																																																																																																																	
March	28																																																																																																																																	
April	25																																																																																																																																	
May	20																																																																																																																																	
June	161																																																																																																																																	
July	350																																																																																																																																	
August	305																																																																																																																																	
September	210																																																																																																																																	
October	90																																																																																																																																	
November	7																																																																																																																																	
December	40																																																																																																																																	

Performa for comparison between identified alignments

कार्य का नाम :- जनपद चमोली में विधानसभा क्षेत्र कर्णप्रयाग के अन्तर्गत सिमली-चूलाकोट मोटर मार्ग के किमी. 5.00 से स्वर्का बैण्ड से हरिजन बस्ती राजस्व ग्राम कलाकोट होते हुए स्वीकृत मार्ग बनियास तक नव निर्माण का कार्य। (3.250 किमी.)

Sl.No	Variables	Alignment No-1		Alignment No-2		Alignment No-3	
1	2	3		4		5	
	(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		(c) Snowfall fall data average annual peak intensities monthly distribution	
		Month	Average Snowfall data (in mm)	Month	Average Snowfall data (in mm)	Month	Average Snowfall data (in mm)
		January	50	January	130	January	150
		February	50	February	47	February	50
		March	-	March	-	March	-
		April	-	April	-	April	-
		May	-	May	-	May	-
		June	-	June	-	June	-
		July	-	July	-	July	-
		August	-	August	-	August	-
		September	-	September	-	September	-
		October	-	October	-	October	-
		November	-	November	-	November	-
	December	120	December	120	December	120	
(d) Wind direction and velocities.	(d) Not Available		(d) Not Available		(d) Not Available		
(e) Fog Condition	(e) Nil		(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.		(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 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.		(g) There is no record of unusual weather condition like cloud burst in the area where the site is located.		
12	Facilities resources.						
	(a) Landing ground.	(a) None		(a) None		(a) None	
	(b) Dropping Zone.	(b) None		(b) None		(b) None	
	(c) Food stuffs.	(c) Lehsoun, Dhan, Ghehun, Aloo, Green Vegetable, Onion etc		(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.		(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.		(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.	
13	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		Value of the land required for the construction of the road in this alignment is as under- As per current Govt. Rate	
14	Approximate Const. Cost.	Rs. 329 Lacs		-		-	
15	Access point indicating possibility of induction of equipment.	Access point available for induction of equipment		Access point available for induction of equipment		Access point available for induction of equipment	
16	Period required for construction.	12 months		12 months		12 months	
17	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.		Deployment of skilled manpower and efficient equipment/ Machinery shall be made for completion of the project.	
18	Important villages, towns and markets centers to be connected.	The road shall provide connectivity to village phali, Dhargaon, Ustoli & Sarpani with a population of numbers.		The road shall provide connectivity to village Ustoli & Sarpani with a population of 875 numbers.		The road shall provide connectivity to village phali, Dhargaon, Ustoli & Sarpani with a population of numbers.	
19	Recreational potential.	Nil		Nil		Nil	
20	Economic Factors:						
	(a) Population served by the alignment.	(a) Numbers (Gen.- 314 , SC- 215)		(a) Numbers (Gen.- 314 , SC- 215)		(a) Numbers (Gen.- 314 , SC- 215)	

Performa for comparison between identified alignments

कार्य का नाम :- जनपद चमोली में विधानसभा क्षेत्र कर्णप्रयाग के अन्तर्गत सिमली-चूलाकोट मोटर मार्ग के किमी. 5.00 से स्वर्का बैण्ड से हरिजन बस्ती राजस्व ग्राम कलाकोट होते हुए स्वीकृत मार्ग बनियारा तक नव निर्माण का कार्य। (3.250 किमी.)

Sl.No	Variables	Alignment No-1	Alignment No-2	Alignment No-3
1	2	3	4	5
	(b) Agriculture and economic potential of the area	(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.	(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.	(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.
21	other major development projects being taken up electric projects etc.	None	None	None
22	(i) Misc. Such as camping sites	(i) Nil	(i) Nil	(i) Nil
	(ii) Law and other problem	(ii) There is no significant law and order problem in the area and the local administration takes care of such matters.	(ii) There is no significant law and order problem in the area and the local administration takes care of such matters.	(ii) There is no significant law and order problem in the area and the local administration takes care of such matters.
	(iii) Royalty	(iii) Royalty is paid to the Revenue Department.	(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	(iv) Available
	(v) working period available for construction of work.	(v) 09 Months	(v) 09 Months	(v) 09 Months
23	Total No. of trees to be removed .	72 Numbers 93	85 Approximately Numbers	89 Approximately Numbers
24	Average Density of forest cover .	(Semi-dense Forest)	(Semi-dense Forest)	(Semi-dense Forest)
25	Total No. of Merits			
26	Total No. of Demerits			

RECOMMENDATIONS :

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

[Signature]

सहायक अभियन्ता
प्रान्तीय खण्ड लो० नि० वि०
कर्णप्रयाग

अधिसारी अभियन्ता
प्रान्तीय खण्ड लो० नि० वि०
कर्णप्रयाग