

**COMPARATIVE STATEMENT OF VARIOUS ALIGNMENTS FOR CONSTRUCTION OF**

**Name of work:** राज्य योजना के अन्तर्गत जनपद उत्तरकाशी के विधान सभा यमुनोत्री के विकास खण्ड भुण्डा के अन्तर्गत राष्ट्रीय राज मार्ग संख्या 94 सिलक्यारा(शिवगुप्त)

से मंजगंव तक मोटर मार्ग का नव निर्माण कार्य।

स्थीरकृत लम्बाई - 5.00 किमी०

SL. NO.	ITEM	ALIGNMENT No. 1	ALIGNMENT No. 2
1	2	3	4
1	<b>Details of route wise topography of the area.</b>	Hill road alignment.	Hill road alignment.
2	Main features and descriptions of the alignment.	As per report.	As per report.
3	Length of alignment from starting to terminal point.	5.00 Km.	5.60 Km.
	Geometrics	As per L-Section attached	As per L-Section attached
	(a) Gradient in different stretches of alignment.		
	(b) Curves & H.P. bends etc.	Smooth curves and 08 H.P. bends	Smooth curves and 08 H.P. bends
4	<b>Traffic &amp; soil condition</b>	Civil land and cultivated land	Civil land and cultivated land
	(a) Geology of area.		
	(b) Road length passing through.	Hill	Hill
	(i) Mountainous terrain in cross slop from 25 to 60%	5.00 Km.	5.60 Km.
	(ii) Steep terrain cross slop greater than 60%	Nil	Nil
	(iii) Rocky stretches with indication of length in loose rock stretches.	Nil	Nil
	(iv) Area subject to avalanches & snow drifts.	Nil	Nil
5	<b>Nature of soil</b>		
	(a) Length of reaches with earth & boulder	4.00 Km.	4.40 Km.
	(b) Length of reaches with medium rock/shale	Nil	Nil
	(c) Length of reaches with H.R./H.S.	1.00 Km.	1.20 Km.
	(d) Length of reaches with V.H.R./V.R.S.	Nil	Nil
6	<b>Bridging requirement</b>		

*Boof*  
Junior Engineer

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	(a) Minor bridges	Nil	Nil
	(b) Range of span	Nil	Nil
	(ii) Total waterway	Nil	Nil
	(b) Major bridges	Nil	Nil
	(c) Total water way	Nil	Nil
7	(a) General elevation of the road including minimum or maximum Heights negotiated by main accents & descents.	Nil	Nil
	(b) Total No. of ascends & descends	Continuously accents	Continuously accents
	(c) Length of cliffs gorges	Nil	Nil
8	(a) Right of way bringing out constraints on of built up area, monuments and other structures.	-	-
	(b) Approximate area scheduled	-	-
	(c) Cultivated land	3.40 Km.	1.35 Km.
	(i) Irrigated land	-	-
	(ii) Un Irrigated land	-	-
9	(a) Existing means of inter communication mule path jeep tracks etc.	Mule path exists.	Mule path exists.
	(b) Relation of proposed alignment with existing under construction roads.	Dharashu Yamunotri National highway no. 94	Dharashu Yamunotri National highway no 94
10	(a) Availability of road construction material.	Stone available locally.	Stone available locally.
	(b) Location of quarries	Bed of Bhagirathi river at chiniyali saur.	Bed of Bhagirathi river at chiniyali saur
	(c) Average length	45.00 Km. by truck and 1 to 5 Km. by mule for stones and sand.	45.00 Km. by truck and 1 to 5 Km. by mule for stones and sand.
11	<b>Facilities &amp; resources</b>		
	(a) Landing ground	Nil	Nil
	(b) Dropping ground	Nil	Nil
	(c) Food stuffs	Local food and cropping	Local food and cropping
	(d) Labour locally availability and need for import	Locally available.	Locally available.

*S. S.*  
Junior Engineer

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	(e) Construction material such as timber, bamboo, sand stones etc. extent of their in availability and head involved.	Locally available.	Locally available.
	(f) Access points indicating possibilities of induction of equipment	Rishikesh/Dehradun.	Rishikesh/Dehradun.
12	<u>Climate</u> (a) Temperature minimum & maximum.	5 to 35 degree	5 to 35 degree
	(b) Rainfall data average annual peak intensities monthly distribution at the extent available length of road cover with snow average and period.	Normal.	Normal.
	(c) Wind direction & velocity	East to West with normal velocity.	East to West with normal velocity.
	(d) Fog conditions	Exist sometimes during rainy season.	Exist sometimes during rainy season.
	(e) Exposure to Sun	Yes, Sunny face.	Yes, Sunny face.
13	Drainage characteristic of the area including susceptibility to damages.	-	-
14	Length of land slides	Nil	Nil
15	Length of unstable area	Nil	Nil
16	Length of heavy clearing	Nil	Nil
17	Length of marshy & flooded area	Nil	Nil
18	Length of portion with loose rock	Nil	Nil
19	Period required for construction	12 months after technical sanction	12 months after technical sanction
20	Vegetation extant/type.	-	-
21	<u>Political aspects</u> (a) Villages falling in or within	-	-
	(i) 1 Km. alignment	saundhgaon	Saundhgaon
	(ii) 1 to 5 Km. alignment	Manjgaon	Manjgaon
	(b) Important village, town, marketing center connected	-	-
22	Economic & industrial consideration	Nil	Nil

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23	Population served by the alignment	1154	1154
24	Recreational potential & potential for development	Through this alignment people of several villages will get easley approach to Dharashu Yamunotri national highway no 94 and local market Brahmkhali the economic the villagers will improve gradually.	Through this alignment people of several villages will get easley approach to Dharashu Yamunotri national highway no 94 and local market Brahmkhali the economic the villagers will improve gradually.
25	Scope of agricultural & horticulture development.	-	-
26	Extent of forest wealth	-	-
27	Prospects of development of minor or any other major development project being taken up to future, hydro electric projects.	-	-
28	Approximate cost of construction of each alignment.	350.00 Lacs	400.00 Lacs
29	<u>Merits &amp; demerits</u> (i) Merits  (ii) Demerits	This alignment passes through stable strata, suitable gradient with 08 H.P. bends.	This alignment also passes through stable strata but having higher gradient to alignment No 01 and also pass with 08 H.P bend. H.P bend is coming near to each other, which is not good for stability of road.
30	Any other useful information viz. other important projects being undertaken in the area required for completion of the work etc.	-	-
	(a) Recommendation of the Ex. Engineer	On the examination of above observations, the alignment 1 shown in red ink is suitable and feasible, hence alignment no 1 is recommended for sanction.	
31	Order of S.E. with reasons.		

  
Assistant Engineer,  
Provincial Division P.W.D., Uttarkashi.

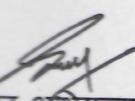
  
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Executive Engineer,  
Provincial Division P.W.D., Uttarkashi.

J. E.

जनपद उत्तरकाशी के विधानसभा क्षेत्र यमुनोत्री के विकास खण्ड छुपड़ा के अन्तर्गत राष्ट्रीय राज मार्ग संख्या- 94 सिलक्यारा (शिवगुफा) से नंजगांव तक मोटर मार्ग का निर्माण कार्य (लम्बाई 5.00 किमी) हेतु वनभूमि हस्तान्तरण प्रस्ताव 1.310 है।

## SUMMARY OF ALIGNMENT

संलग्न तुलनात्मक से स्पष्ट होता है कि समरेखण- 1 जो लाल रंग से अंकित है क्षेत्र की जनता की सुविधा एवं तकनीकी दृष्टि से उपयोगी है। इस समरेखण से जनता अधिक संतुष्ट है तथा किसी प्रकार के विवाद की सम्भावना नहीं है क्योंकि समरेखण जनता की सहमति से किया गया है।

  
कनिष्ठ अभियन्ता  
प्रान्तीय खण्ड, लो०नि०वि०,  
उत्तरकाशी।

  
सहायक अभियन्ता  
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