

COMPARATIVE STATEMENT OF VARIOUS ALIGNMENT

Sl. No.	ITEM	ALIGNMENT MARKED 1 (Indicated Red)	ALIGNMENT MARKED 2 (Indicated Green)
1.	Details of routes, vis-a-vis, topography of the area Main feature and description of Alignment	Alignment started from Km 5.00 of Birtha-Taraswar motor road	Alignment started from Km 5.00 of Birtha-Taraswar motor road
2.	Length of the alignment from starting point to terminal point.	3.00Km	3.00Km
3.	Geometric	As per sheet attached and L-Section.	As per sheet attached and L-Section.
A.	Gradient in different stretches of the alignment	As per L-Section attached	As per L-Section attached
B.	Curve and hair pin bend	no	no
4.			
A.	Terrain and soil condition		
1.	Geology of road.	E&B/HS/VHS	E&B/HS/VHS
B.	Road length passing through.		
1.	Mountainous terrain cross slope from 25 to 60.	2.00 Km	1.00 Km
2.	Steep terrain cross slope greater than 60	1.00 Km	2.00 Km
3.	Rocky stretches with indication in length in loose.	Nil	Nil
4.	Area to subject to avalanches and snow drifts	Nil	Nil
5.	Nature of Soil		
A.	Length of reaches with soil	1.00 Km	1.00 Km
B.	Length of reaches with ordinary rocks	1.00 Km	0.500 Km
C.	Length of reaches with hard rocks	0.500 Km.	0.500 Km
D.	Length of reaches with VHR/VHS	0.500 Km	1.00 Km
6.	Bridge requirement		
A.	Minor bridge		
i.	Total number	Nil	Nil

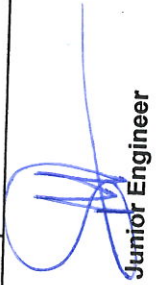
Junior Engineer

Assistant Engineer

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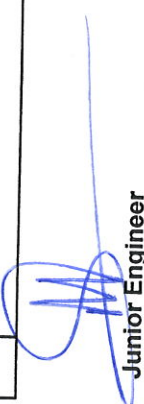
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ii.	Range of span	Nil	Nil
iii.	General elevation of the road indicating maximum and minimum heights negotiated by main ascents and descents.	L-Section attached	L-Section attached
iv.	Total number of ascents and descents.	ascent 04 Nos descents 05 Nos	ascent Nos descents Nos
v.	Total water way	N.A.	N.A.
B.	Major bridge		
i.	Total number	Nil	Nil
ii.	Range of span	N.A.	N.A.
v.	Total number of ascents and descents.	Nil	Nil
vi.	Length of cliffs and gorges	Nil	Nil
7.	<u>Right of way bringing out construction</u>		
	Approximate area and value.		
i.	Cultivated		
ii.	Irrigated	1.8 Hac	Hac
iii.	Unirrigated	nil	nil
8.A.	Existing means of inter-communication (mule-path, jeep, track, etc.)	1.8 Hac	Hac
B.	Relation of proposed alignment with existing and under construction road.	Foot path and Foot tracks	Foot path and Foot tracks
		Alignment started from Km 5.00 of Birtha-Taraswar motor road	Alignment started from Km 5.00 of Birtha-Taraswar motor road
9.A.	Availability of road construction material.		
B.	Average leads.	Stones are available locally and rest will have to be carted from Haldwani/Ramnagar	Stones are available locally and rest will have to be carted from Haldwani/Ramnagar
10.	<u>Facilities/Resources</u>	1,000 km.	1,500 km.
a.	Landing ground		


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b.	Dropping zone		
c.	Food stuffs	Rice, Grain, vegetable.	Rice, Grain, vegetable.
d.	Labour locally available or need of import	Few local labours are available rest to be imported from Nepal	Few local labours are available rest to be imported from Nepal
e.	Construction material, timber, bamboo, sand stone, shingle, grits etc. extent of their availability & lead involved	Stone for walling & rest from Ramnagar, Haldwani	Stone for walling & rest from Ramnagar, Haldwani
11.	Access point indication possibility of equipment	Ranikhet, Tarikhet	Ranikhet, Tarikhet
12.	Climate condition		
A.	Temperature maximum & minimum	35 ⁰ C 10 ⁰ C	35 ⁰ C 10 ⁰ C
B.	Rainfall data average annual peak intensities, monthly distribution to the extent available	Not Available but 300 mm to 800 mm	Not Available but 300 mm to 800 mm
C.	Length of road covered snow, average and period	Nil	Nil
D.	Wind direction and velocity		
E.	Fog conditions	Approximate East to West and West to East	Approximate East to West and West to East
F.	Exposure to sun	During Winter and rainy season	During Winter and rainy season
13.	Drainage characteristics of the area indicating susceptibility to damage.	Whole day	Whole day
14.	Length of land slides.	Drainage in fair	Drainage in fair
15.	Length of unstable area.	Nil	Nil
16.	Length of heavy snow clearing.	Nil	Nil
17.	Length of Marshy & flooded areas.	Nil	Nil
18.	Length of positions with loose rocks.	Nil	Nil
19.	Period required for construction.	Nil	Nil
20.	Vegetation extent/Type.	2Years	2 Years
		Partially covered with Crop Farms, pine trees & pacal bushes.	Partially covered with Crop Farms, pine trees & pacal bushes.



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		2. Cultivated land required for construction	2. More forest land required.
			3. General people are not in favour due to private property .
29.	Any other useful information (Viz. other important projects being undertaken in the area required for completion of the work.	Nil	Nil
30.	Recommendation of the Executive Engineer.	This alignment is most suitable technically as well as economically as per requirement of local public	Alignment is not suitable as compared to alignment No.1
31.	Order of the Superintending Engineer with reason.		


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