

Alignment

1.5/2.4

16

me of work-Alignment of Khola Motor Road from Bartoli-Banthok Motor Road. In Distt.

Almora

Sanctioned Length= 5.00Km.

Particular	Alignment No-1	Alignment No-2
Topography	Start from Maniagar Khola Motor road in Km 2 Hec 0-2	Start from Maniagar Khola Motor road in Km 1 Hec 2-4
Length of Road	5.00Km.	5.90Km.
Bridging requirement No. and Length	NIL	NIL
Geometric	Nap Land , Benap, Forest Land	Nap Land , Benap, Forest Land
(a) Gradients	1:24F 1:40F 1:20F & Level	1:24F 1:40F 1:20F & Level
(b) Curves, H.P. Bends	4 No. H.P. Bends	5 No. H.P. Bends
Existing means of communication, mule path, jeep, Tracks etc.	villages are connected by foot track.	villages are connected by foot track.
Right of way, bringing out. Construction on account of built up areas, monuments and other structures	No such construction involved	Same as alignment no.1
(a) Terrain & soil condition (i) Nature of soil (ii) Geology of the area (b) Road length passing through (i) Mountainous terrain (ii) Steep terrain	E.&B., H.S., V.H.S. , cultivated and Hill area Approx.80% Approx.20%	E.&B., H.S., V.H.S. , cultivated and Hill area Approx.80% Approx.20%
iii) Rocky stretches with indication of length in loose rocky stretches (iv) Area subject to avlanches and snow drift (v) Slip Zone Area	Approx 2.00 km. rocky portion & 3.00 km. ordinary rocks. Nil Nil	Approx 2.50km. portion & 3.40 km. ordinary rocks. Nil Nil
(vi) Cliffs and gorges (vii) Drainage characteristics of the area including suceptibility to flooding (viii) General elevation of the road indicating maximum and minimum height negotiated by main ascends and discends (ix) Variations extants and types	Nil Area has good drainges maximum hight 1500 m minimum height 1292.50 m Nil	Nil Area has not good drainges maximum hight 1510 m minimum height 1257.2 m Nil

Climate condition: a) Temperature monthly max. & min. reading. b) Rainfall data average annual peak intensities monthly distribution (to the extent available) c) Snowfall data average annual peak intensities monthly distribution (to the extent available) d) Wind direction and velocities e) Fog condition f) Exposure to sun g) Unusual weather conditions like cloud burst etc.	Approx. 30°C to 1°C Not available Mostly winter season Record not available Not available Often in rainy season Almost in all the year Nil	Approx. 30°C to 1°C Not available Record not available Not available Often in rainy season Almost in all the year Nil
Facilities resources a) Landing ground b) Dropping Zone c) Food stuffs d) Labour local availability and need for import e) Construction material (Timber, Bamboo, Sand, stone, shingle etc. extent of their availability and lead involved)	Not available Not available Crops, vegetables, fruits, Milk production area Local & Nepali labour also available Stone locally available & other material available App. 125 km away at Haldwani.	Not available Not available Crops, vegetables, fruits, Milk production area Local & Nepali labour also available Same as alignment no.1
Value of land, agricultural land, irrigated land, built up land, forest land etc.	As per current Government rate	As per current Government rate
Approximate Const. Cost	Total cost Rs 233.00 lacs	Total cost Rs 233.00 lacs
Access point indicating possibility of induction of equipment	At present access not available	Same as alignment No.1
Period required for construction	2 years after land transfer	Same as alignment No.1
Strategic Consideration	To provide better communication	Same as alignment No.1
Important villages, towns and markets centers to be connected	Villages – Girchaula, Chalethi, Banthok will be connected by m/r and also Tahsil block & district headquarter.	Same as alignment No.1
Recreational potential	Good	Same as alignment No.1

Economic Factors:		
Population served by the alignment	Appx.1500	Appx.1500
Agricultures and economic potential of the area	Population of above village will be benefited good.	Same as alignment No.1
Other major development projects being taken up electric projects	Nil	Nil
Misc. such as camping sites	Nil	Nil
Law and other problem	Nil	Nil
Royalty	Nil	Nil
Availability of contractors for section and carriage of construction material	Local contractor are available for the work.	Local contractor are available for the work.
Working period available for construction of work	Approximately 9 months a year working period available	Same as alignment No.1
Obstacles	1-Easy grades involved. 2-Min. Forest Land, affected from this alignment. 3- 4 No. H.P. band 4 -Villages people approved this alignment.	Nil
Advantages	Nil	1-More cost involved in this alignment . 2-Max. Nap, Forest land affected from this alignment. 3- 4 No. H.P. band 4-Villages people not approved this alignment.

RECOMMENDATIONS:

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

[Signature]
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C.D., P.W.D.
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Assistant Engineer
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Executive Engineer
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Alignment NO ① marked Red colour
in map approved after Recommendation
of E.E.

[Signature]
27-12-14
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