

Alignment

of work-Alignment of Bhagartola Chamowa Kapkoli Motor Road. In Distt. Almora
Sanctioned Length= 8.00 KM.


Particular	Alignment No-1	Alignment No-2
Topography	Start from Artola Jageshwar Naini Motor road in Km 8 Hec 0-2	Start from Artola Jageshwar Naini Motor road in Km 8 Hec 0-2
Length of Road	8.00 Km.	8.250Km.
Bridging requirement No. and Length	Nil	Nil
Geometric	Nap Land , Benap, Forest Land	Nap Land , Benap, Forest Land
(a) Gradients	1:20F, 1:24F, 1:24R, 1:40F, 1:30R, 1:24R, 1:40R, 1:20R, 1:18R, 1:40 R & Level	1:20F, 1:24F, 1:24R, 1:40F, 1:30R, 1:24R, 1:40R, 1:20R, 1:18R, 1:40 R, 1:18F & Level
(b) Curves, H.P. Bends	6No. H.P. Bends	8No. 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 3.5 km. rocky portion & 4.5 km. ordinary rocks. Nil Nil	Approx 3.5 km.rocky portion & 4.75 km. ordinary rocks. Nil Nil
(vi) Cliffs and gorges (vii) Drainage characteristics of the area including supceptibility 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 1900 m minimum height 1600 m Nil	Nil Area has not good drainges maximum hight 1800 m minimum height 1500 m Nil


Climate condition: Temperature monthly max. & min. reading.	Approx. 30°C to 1°C	Approx. 30°C to 1°C
Rainfall data average annual peak intensities monthly distribution (to the extent available)	Not available	Not available
Snowfall data average annual peak intensities monthly distribution (to the extent available)	Mostly winter season Record not available	Record not available
Wind direction and velocities	Not available	Not available
Fog condition	Often in rainy season	Often in rainy season
Exposure to sun	Almost in all the year	Almost in all the year
Unusual weather conditions like cloud burst etc.	Nil	Nil
Facilities resources		
1) Landing ground	Not available	Not available
2) Dropping Zone	Not available	Not available
3) Food stuffs	Crops, vegetables, fruits, Milk production area	Crops, vegetables, fruits, Milk production area
4) Labour local availability and need for import	Local & Nepali labour also available	Local & Nepali labour also available
5) Construction material (Timber, bamboo, Sand, stone, shingle etc. extent of their availability and lead involved)	Stone locally available & other material available App. 140 km away at Haldwani.	Same as alignment no. 1
Value of land, agricultural land, irrigated land, built up land, forest and etc.	As per current Government rate	As per current Government rate
Approximate Const. Cost	Total cost Rs 372.8 lacs	Total cost Rs 384.45 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 – Bhagartola, Chamowa Gounth, Digari Gounth, Kapkoli 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


conomic Factors: Population served by the gument	Appx.800	Appx.800
Agricultures and economic potential of the area	Population of above village will be benefited good.	Same as alignment No.1
her major development projects ing taken up electric projects	Nil	Nil
Misc. such as camping sites	Nil	Nil
) Law and other problem	Nil	Nil
i) Royailty	Nil	Nil
v) Availability of contractors for ollection and carriage of nstruction material	Local contractor are available for the work	Local contractor are available for the work.
) Working period available for nstruction of work	Approximately 9 months a year working period available	Same as alignment No.1
Merits	1-Easy grades involved. 2-Min. Forest Land, affected from this alignment. 3- 6 No. H.P. band 4-Villages people approved this alignment.	Nil
Demerits	Nil	1-More cost involved in this alignment . 2-Max. Nap, Forest land affected from this alignment. 3- 8 No. H.P. band 4-Villages people not approved this alignement.

RECOMMENDATIONS:

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


Junior Engineer
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