Performa for comparison between identified alignments

Sl. No	Variables	Alignment No-1	Alignment No-2
1	Topography	Civil, Van Panchyat And Nap land	Forest, Civil, Van Panchyat And Nap land
2	Length of Road	5.750 Km	7.500 Km
3	Bridging requirement No. and Length	3m(4 no), 15m(1 no)	3m(6 no),15 m (1 no)
4	Geometric		
	(a) Gradients	1:10, 1:12, 1:17, 1:18,1:20 level	1:20, 1:24, 1:40, level
	(b) Curves, H.P Bends	1:22,1:40 (8) hp band	11 hp band
5	Existing Means of communication, mule path, jeep, Tracks etc.	Mule path And, Tracks	Mule path And, Tracks
6	Right of way, bringing out. construction on account of built up areas, monuments and other structures.	0.455 hact 7.00m	1.840 hact 7.00m
7	(a) Terrain &Soil Condition.	E&B/H.B/V.H.S	E&B/H.B/V.H.S
	(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.	Drainage is Fair	Drainage is Fair
8	Climate Condition: (a) Temperature Monthly max. & min. reading.	Max 42°C Min 8° C	Max 42°C Min 8°C
	(b) Rainfall data average annual peak intensities monthly distribution (to the extent available) .	Not available	Not available
	(c) Snowfall data average annual peak intensities monthly distribution (to the extent available)	Not available	Not available
	(d) Wind direction and velocities.	S/w	S/w
	(e) Fog Condition.	In Rainy Seasion	In Rainy Seasion
	(f) Exposure to sun.	Almost full day	Almost full day
	(g) Unusual weather condition like cloud brust etc.	Almost rainy Seasion	Almost rainy Seasion

Sl. No	Variables	Alignment No-1	Alignment No-2
9	Facilities resources.		
	(a) Landing ground.	-	-
	(b) Dropping Zone.	-	-
	(c) Food stuffs.	-	-
	(d) Labour local availability and need for import.	75% Outside As Nepali & 25% Local	75% Outside As Nepali & 25% Local
	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved.	Stone is available localy & res will have to be cartage form lacal quarry etc.	Stone is available localy & res will have to be cartage form lacal quarry etc.
10	Value of land, agricultural land, Irrigated land, bult up land, forest land etc,	Agriculture development will increase	Agriculture development will increase
11	Approximate Const. Cost.	Rs 580.07 Lac	Rs 636.21 Lac
12	Access point indicating possibility of induction of equipment.	Almora and Haldwani	Almora and Haldwani
13	Period required for construction.	1 year	1 year
14	Strategic Consideration.	-	-
15	Important villages, towns and markets centers to be connected.	Someswar and almora	Someswar and almora
16	Recreational potential.	-	-
17	Economic Factors:		
	(a) Population served by the alignment.	364	364
	(b) Agricultures and economic potential of the area.	Construction of Road will facilitate the carriage of agricultural production will vegetables and fruits to market	Construction of Road will facilitate the carriage of agricultural production will vegetables and fruits to market
18	other major development projects being taken up electric projects etc.	-	-
19	(i) Misc. Such as camping sites	-	-
	(ii) Law and other problem	No	No
	(iii) Royalty	Yes	Yes
	(iv) Availability of contractors for collection and carriage of construction material	Available	Available
	(v) working period available for construction of work.	March to June & October to December	March to June & October to December
20	Total No. of trees to be removed and Affected Forest land	247 (Mainly Chir) Hact 0.455 hact	532 (Mainly Chir) 5.124 hact
21	Average Density of forest cover .	84.62	101.52

Sl. No	Variables	Alignment No-1	Alignment No-2
22	Total No. of Merits	In the Alignment number 1 which is proposed for Construction the forest land affected is 0.455 Ha. number of trees affected is 247, length of road is 5.750 Km and Number of HP bands is 8. this is geologically more stable hence this alignment is chosen for construction of Road	Nil
23	Total No. of Demerits	Nil	In the Alignment number 2 which is rejected, the forest land affected is 5.124 Ha. number of trees affected is 532, length of road is 7.500 Km and Number of HP bands is 7. this is geologically Less stable as Compared to alignment Number 1 hence alignment number 2 is rejected.

RECOMMENDATIONS:

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

Junior Engineer
PMGSY Div PWD Almora

Assistant Engineer
PMGSY Div PWD Almora

Assistant Engineer
P. M. G. S. Y. Divn.
P.W.D., ALMORA

Executive Engineer
PMGSY Div PWD Almora

Executive Engineer
P.M.G.S.Y. Division
P.W.D., ALMORA