

## प्रारूप-13

## Performa for comparison between identified alignments

Sl.No	Variables	Alignment No-1	Alignment No-2
1	Topography	Alignment passed through rocky part and barren land agricultural lan, Civil Forest	Alignment passed through rocky part and barren land agricultural lan, civil Forest
2	Length of Road	4.00 Km	4.50 Km
3	Bridging requirement No. and Length	-	-
4	Geometric		
	(a) Gradients	1:20, 1:24, 1:60 Size & Fall	1:18, 1:20, Size & Fall
	(b) Curves, H.P Bends	20m, 30m, 45m	Same
5	Existing Means of communication, mule path, jeep, Tracks etc.	Foot Track and Mule path	Foot Track and mule path
6	Right of way, bringing out. construction on account of built up areas, monuments and other structures.		
7	(a) Terrain & Soil Condition.	Forest 7mt Map Land= 9mt	
	(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 descends.(ix) Variations extants and types.	Cross stop 10 <sup>0</sup> to 25 <sup>0</sup> -70 <sup>0</sup> 25 <sup>0</sup> To 60 <sup>0</sup> -30 <sup>0</sup>	
8	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 condition like cloud brust etc.		
9	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.		
10	Value of land, agricultural land, Irrigated land, bult up land, forest land etc,		
11	Approximate Const. Cost.	Rs .....Lac	Rs .....Lac
12	Access point indicating possibility of induction of equipment.		
13	Period required for construction.	5 Year	6 Year
14	Strategic Consideration.		

15	Important villages, towns and markets centers to be connected.	Mathigoan	Mathigoan
16	Recreational potential.		
17	Economic Factors: (a) Population served by the alignment. (b) Agricultures and economic potential of the area.		
18	other major development projects being taken up electric projects etc.	None	None
19	(i) Misc. Such as camping sites (ii) Law and other problem (iii) Royalty		
	(iv) Availability of contractors for collection and carriage of construction material (v) working period available for construction of work.		
20	Total No. of trees to be removed .		
21	Average Density of forest cover .		
22	Total No. of Merits		
23	Total No. of Demerits		

## RECOMMENDATIONS:

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

A. Assistant Engineer/J.E.  
P.WD./UA

सहायक अभियन्ता (1)  
निर्माण विभाग, पोड़ी (गढ़वाल)  
P.WD./UA

अभियन्ता  
निर्माण विभाग, पोड़ी (गढ़वाल)  
P.WD./UA

Note -

Signature and approval of the concerned DFO is essential.

प्रमाणित वनाधिकारी  
गढ़वाल वन प्रभाग  
पोड़ी

एच प्रमाणित वनाधिकारी  
पोड़ी वन प्रभाग  
पोड़ी

वन क्षेत्राधिकारी  
पैठाणी राजि  
गढ़वाल वन प्रभाग पोड़ी



**NAME OF WORK:****Construction of Cheri Bangla Motor Road Under State Sector (Phase-I)****Sanctioned Length:**

4.00 Km

**Scheme:**

State

Sl. No.	Items	Alignment 1	Alignment 2
<b>Details of Route, vis-à-vis topography of the area</b>			
1	Main Feature and description of the alignment	1.Alignment Starts From 12 Km of Khirsu, Molkha khal Motor Road	1.Alignment Starts From 12 Km of Khirsu, Molkha khal Motor Road
		2.Average grade of this alignment 1:20 Fall .	2.Average grade of this alignment 1:18 Fall
		3.Alignment shall run through Civil forest and Private Nap land	3.Alignment shall run through Civil forest and Private Nap land.
2	Length of the alignment from starting point to terminal point.	4.000	4.500
3	<b>Geometric</b>		
	A Gradient in different stretches of the alignment	As per Gen. L-section	As per Gen. L-section
	B Curves and Hair Pin Bends	All curves as per IRC standards. Seven H.P. Band	All curves as per IRC standards. Nine H.P. Band
4	A <b>Terrain and Soil Condition</b>		
	1 Geology of the road	As per Geologist report	
	B <b>Road Length Passing Through</b>		
	1 Mountainous terrain cross slope from 25° to 60°	4.000	4.500
	2 Step terrain cross slope greater than 60°	Nil	1.000
	3 Rocky stretches with indication in length in loose	Nil	Nil
	4 Area subject to avalanches and snow drifts	Nil	Nil
5	<b>Nature of Soil</b>		
	1 Length of reaches with Earth & Boulders	2.500	2.000
	2 Length of reaches with Hard Rock / Shale	Nil	Nil
	3 Length of reaches with Medium Rock / Shale	1.000	0.500
	4 Length of reaches with VHR / VHS	0.500	2.000
6	<b>Bridge Requirements</b>		
	A <b>Minor Bridges</b>		
	1 Total Number	0	0
	2 Range of Span	0	0.00
	3 Range of Span	0	0
	4 Total water way	0	0
	B <b>Major Bridges</b>		
	1 Total Number	Nil	Nil
	2 Range of Span	Nil	Nil
	3 Total water way	Nil	Nil

NAME OF WORK:

Construction of Cheri Bangla Motor Road Under  
State Sector (Phase-I)

Sanctioned Length:

4.00 Km

Scheme:

State

Sl. No.	Items	Alignment 1	Alignment 2
7	<b>Right of way bringing out construction</b>		
	Approximate area and value		
	1 Cultivated Nap land	0.750 Km	0.650
	2 Irrigated	Nil	Nil
	3 Un-Irrigated	Nil	Nil
	4 Civil Soyam	Nil	Nil
	5 Forest Land	Nil	Nil
8	<b>General Elevation of Road</b>		
	1 Indicating maximum and minimum heights negotiated by main ascent and descent		
	2 Total Ascent and descent	Though up & down	Though up & down
9	A Existing means of inter communication (Mule Path, Jeep track etc.)	Nil	Nil
	B Relation of proposed alignment with existing and under construction roads		
10	A Availability of road construction materials	Stone available	Stone available
	B Location of quarries	3 km av. Lead	3 km av. Lead
	C Average leads		
11	<b>Facilities &amp; Resources</b>		
	A Landing Ground		
	B Dropping Zone		
	C Food Stuffs		
	D Labour locally available or need of import		
12	E Construction materials, timber, bamboo, sand, stone, shingle, grit etc. extent of their availability & lead involved		
	Access point indicating possibility of equipment	Pauri & srinagar garhwal	Pauri & srinagar garhwal
13	<b>Climate Conditions</b>		
	A Temperature Maximum & Minimum	35°C to 6°C	35°C to 6°C
	B Rainfall Data Average Annual Peak intensity, monthly distributed to the extent available	75.00 to 110.00	75.00 to 110.00
	C Length of road covered by snow (average & period)	Nil	Nil
	D Wind direction & velocity	North to south with normal velocity	North to south with normal velocity
	E Fog conditions	Negligible in winter	Negligible in winter
	F Exposure to sun	Well Exposure to sun	Well Exposure to sun



NAME OF WORK:

Construction of Cheri Bangla Motor Road Under  
State Sector (Phase-I)

(34)

Sanctioned Length:

4.00 Km

Scheme:

State

Sl. No.	Items	Alignment 1	Alignment 2
14	Drainage Characteristics of the area indicating susceptibility to damage	Good Natural of drainage	Good Natural of drainage
15	Length of land slide	Nil	Nil
16	Length of unstable area	Nil	Nil
17	Length of heavy snow covering	Nil	Nil
18	Length of marshy and flooded areas	Nil	Nil
19	Length of position with loose rocks	Nil	Nil
20	Period required for constructions	2.00 year	2.00 year
21	Vegetation extent / type	Small Bushes & Tree	Small Bushes & Tree
<b>Village Falling on Terrain</b>			
22	A Village on or within		
	0 1Km of the Alignment		
	0 1 Km. to whole length Of the Alignment	3No	3no
23	Important villages, town / marketing centre connected	Pauri & srinagar garhwal	Pauri & srinagar garhwal
<b>Economic &amp; Industrial Consideration</b>			
24	1 Population served by alignment	appro. 300	appro.300
	2 Economic & Industrial Consideration	Development in future	Development in future
	3 Recreational potential		
25	Strategic conditions	Important	Important
26	Scope of Agriculture and Horticulture development	Will Increase	Will Increase
27	Extent of forest wealth		
28	Prospect of development of minor or any other major development projects being taken up in the O.S.Hydro Electric Projects	Nil	Nil
29	Approximate cost of construction of each alignment	138.00 lac	207.00 lac
30	A Merits		
	B Demerits		
31	Any other useful information (viz. other important project being undertaken in the area required for the completion of work)		
32	Relation of proposed Alignment with Existing and Under	Starts From molkha khal motor road in 11 Km of khirshu	Starts From molkha khal motor road in 11 Km of khirshu
33	Position of Quarry		
34	Recommendation of Executive Engineer	<b>recommendaed for senction show in red colour</b>	
35	Order of the Superintending Engineer with reasons		

Junior Engineer

Assistant Engineer (I)

निर्माण खण्ड लो०नि०वि०  
पादो पोडी (गढ़वाल)

Executive Engineer

निर्माण खण्ड लो०नि०वि०  
पादो पोडी (गढ़वाल)