

COMPARATIVE STATEMENT OF VARIOUS ALIGNMENT

Name of Work :- Construction of Gagas-Udi-Mahadev-Sailapani-Bhikyasain -Marchula Motor Road (Length : - 40.00 Km.).

Sl. NO.	ITEM	ALIGNMENT MARKED 1(Red)	ALIGNMENT MARKED 2(Green)
	Details of routes, vis-à-vis, Topography of the area		
1-	Main feature and description of alignment.	As per attached sheet& L- Section	As per attached sheet& L- Section
2-	Length of the alignment from starting point to terminal point.	39.425 KM	40.425 km
3-	Geometric		
A.	Gradient in different stretches of the alignment	1:24 Fall, 1:24 R, 1:40R, 1:40F, LEVEL	1:24 Fall, 1:24 R, 1:40R, 1:40F, LEVEL
B.	Curve and hair pin band.	2 Nos.	4 Nos.
4-A.	Terrain and soil condition		
1	Geology of road.	E&B/HR&HS/VHS&VHR	E&B/HR&HS/VHS&VHR
B.	Road length passing through.		
1	Mountainous terrain cross slope from 25 to 60	10 KM	15.00 km
2	Sleep terrain cross greater than 60	30 KM	25.00 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 earth and boulder.	20.00 km	20.00 km
B.	Length of reaches with MR&MS	NIL	NIL
C	Length of reaches with HR&HS	15.00 KM	15.00 km
D	Length of reaches with VHR&VHS	4.50 KM	5.50 km
6-	Bridge requirement		
A.	Minor bridge	1 No	1 No
i	Total number	NIL	NIL
ii	Range of span	NIL	NIL
B.	Major Bridge	2 No	2 No
i	Total number	3 NOS.	3 NOS.
ii	Range of span	20,36 & 75 Meter	20,36 & 75 Meter
7	General elevation of the road indicating maximum and minimum heights negotiated by main ascents and descents.	L-Section Attached	L-Section Attached

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		1 (Red)		2 (Green)	
8	Total number of ascents and descents.	NIL		NIL	
9	Construction material, timber, bamboo, sand stone, shingle, grits, etc.	Available from quarry proposed		Available from quarry proposed	
10	Access point indication possibility of equipment.	NIL		NIL	
11	Climate condition				
A.	Temperature Maximum & minimum	30° C to 8° C		30° C to 8° C	
B.	Rainfall Data average annual peak intensities, monthly distribution To the extent available	(Not available) but approximate 300 Cm		(Not available) but approximate 300 Cm	
C	Length of road covered show, Average and period	NIL		NIL	
D	Wind direction and velocity	Normal		Normal	
E	Fog condition	During Rainy Season		During Rainy Season	
F	Exposure to sun	In maximum length		In maximum length	
12	Drainage characteristics of the area indicating susceptibility to damage.	Sloppy & drainage in fair		Sloppy & drainage in fair	
13	Length of land sides.	NIL		NIL	
14	Length of unstable area.	NIL		NIL	
15	Length of heavy snow clearing.	NIL		NIL	
16	Length of marshy & flooded areas.	NIL		NIL	
17	Length of positions with loose rocks	NIL		NIL	
18	Period required for construction	2 & 1/2 Year (30 month)		2 & 1/2 Year (30 month)	
19	Vegetation extent/Type.	Normal		Normal	
20	Critical Expects				
A.	Village following on or within.	1 to 39.50 km.		1 to 40.50	
I	1 km of the alignment	As per L- Section		As per L- Section	
ii	1 km to 6 km of the alignment	As per L- Section		As per L- Section	
21	Important village, town/marketing center connected.	Marchula, Bandran, Nagtale, Matwas, Bhene, Dyona, Siswari, Tarar, Auneri, Chonara, Nanarkota, Malihari, Amara, Dugolibagh, Donigadhera, Bagara & Bhikvasain.		Marchula, Bandran, Nagtale, Matwas, Bhene, Dyona, Siswari, Tarar, Auneri, Chonara, Nanarkota, Malihari, Amara, Dugolibagh, Donigadhera & Bhikyasain.	
22	Economics & Industrial consideration:				
I	Population served by alignment.	6500		6350	
ii	Agriculture , potential for development of forest.	Good scope of Fruits , vegetable & cereals		Good scope of Fruits , vegetable & cereals	
23	Scope of agriculture and horticulture development.	Good scope of horticulture & agriculture		Good scope of horticulture & agriculture	

Sl. NO.	ITEM	ALIGNMENT MARKED		ALIGNMENT MARKED 2(Green)
		1(Red)	Good	
24	Extent to forest wealth.	Good	Nil	Good
25	Prospects of development of minor or any other major development project being taken up in the O.S. Hydro Electrical Project.	Nil		Nil
26	Approximate cost of construction.	Rs. 525.00 lacs		Rs. 550.00 Lacs
27	<u>Merits and Demerits</u>			
A	<u>Merits</u>	1. Less harm to forest 2. Shortest route to connect all villages. 3. General people in favour of this. 4. Easy construction & less construction cost.		1. harm to forest 2. Longest route to connect all villages.
B	<u>Demerits</u>	1. General people are in favour of this alignment. 2. During construction damages of land, property & 5.00 km length forest panchat land.		1. General people are not in favour of this alignment. 2. During construction damages of property 6.00 Km. forest panchat land.
28	Any other useful information (Viz. other important projects being undertaken in the area required for completion of the work.	This road connects 17 villages.		This road connects 16 villages.
29	Recommendation of the Executive Engineer.	Alignment no. 1 marked in red colour is recommended for sanction/approved pl.		Alignment no. 2 marked in green colour is recommended for rejection pl.
30	Order of the Superintending Engineer with reason.			

[Signature]
सहायक अभियन्ता,
प्रान्तीय खण्ड, लोनिवि,
रानीखेत।

[Signature]
प्रमोद नारायण
वरमोहा वन प्रभु वरमोहा
रानीखेत।

[Signature]
प्रमोद अभियन्ता,
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