## Comperative chart of both alignmen

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		DETAIL OF A	LIGNIVIENT	
distant		The sharp (Se	aema-Ristana) Motor Road	
lame of	work:	Alignment of Ratkhal to Khalyun (Se		
ength: 8	3.300 KM	M Total Tota		-
cheme	:		ALIGNMENT 1	ALIGNMENT 2
I.No.		ITEMS		
	<u>Detail</u>	of Route, vis-a-vis topography of the		1 Charte
		area	Proposed Road Starts	Proposed Road Starts
			37.00 05	From km. 27.500 o
	200	in feature and description of the	FIOITI IXIII	4. + 1 Li L <u>a</u> l.
	IVIa	alignment	Barkinda- Manila- Dotiyal	Barkinda- Manila
				Dotiyal Motor Road
1			Motor Road	
<u> </u>	Length of the alignment from starting point to terminal point		8.300 Km.	9.000 Km.
2				
3	Coamotric			
3		Gradient in different stretches of	As per L-Section	As per L-Section
	A	the alignment		
	+		10 Nos.of H.P.Bend	10 Nos.of H.P.Bend
	В	Curves and Hair Pin Bends		
	Α	Terrain and Soil Condition		
4	-	Terrain and son es	FOR VIUD IVIUS	E&B VHR/VHS
	1	Geology of the Road	E&B VHR/VHS	
-	В			
	. В	Road Length passing Through	2 000 km	4.200 Km
	1	Cultivated land & Barren land	3.800 km.	
	_	Mountainous terrain cross slope	3.000 Km	3.000 Km
	2	from 25*to60*	3.000 ((1)	
		Steep terrain cross slope greater	1.500 Km	1.800 Km
	3	than 60*		
		Rocky Stretches with indication in	Nill	Nill
	4	langth in loose		
		Area subject to avalanches and	Nill	Nill
	5	snow drifts		

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ज्या प्रति प्रमाणित



7	· · · · · · · · · · · · · · · · · · ·	DETAIL O	F ALIGNMENT	
NI				
Ivame	or wo	ork: Alignment of Rotkhal to Kha	byun-(Seema-Ris-	toua) Motor Road
cengu	1.ch.	₩ KM		*
Schem	<u>re :</u>			
Sl.No.		ITEMS	ALIGNMENT 1	1 ALIGNMENT 2
5	Na	ture of Soil		
	1	Boulder	4.100 Km	4.300 Km
	2	Length of reaches with Medium Rock/Shale	2.700 Km	2.90 <b>0</b> Km
	3	Length of reaches with Hard Rock/Shale	0.900 Km	1.100 Km
	4	Length of reaches with VHR/VHS	0.500 Km	0.700 Km
6	Bric	ge Requirement	To the state of th	
	Α	Major Bridges		
	1	Total Number	NIL	
	2	Range of Span	NIL	NIL
	3	Total Water Way	NIL	NIL
-	В	Minor Bridges/Culverts	IVIL	NIL
	1	Total Number	4	
	2	Range of Span	3 to 8 mtr	5
	3	Total Water Way	3 to 8 mtr	3 to 8 mtr
,	Gen	eral elevation of the road including	maximum and	
7	mini	mun heights negotiated by main as	rents and descents	
		The sea of man as	Throughout	
	1	Total number of ascents and	Rise,Level,Fall	Throughout Rise, Level, Fa
		descents	Minimum and	Minimum and maximum
			maximum heights	heights 860 m & 1197 m
	2	Heights of Cliffs & Gorges	865 m & 1198 m Nill	
~	Righ	nt of way bringing out construction	JIVIII	Nill
8	J	Area Mountains and O		
		Area Mountains and Other Approximate area and value		
	1	Cultivated	1275 000	
		Irrigated	4275.000	4500.000
		Un-Irrigated	0.000	0.000
		Civil Soyam	0.000	0.000
		orest Land	3675.000	4050.000
		Custu	350.000	450.000

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सहायती अधियनता निर्माण खण्ड, लोठ निर्वा विठ सन्ट (अल्मोड़ा)

काया प्रति प्रमाणित दिवाय व्यवस्थाः भवाय व्यवस्थाः व्यवस्थाः



		DET	AIL OF ALIGNMENT	
Name (	of wo	rk: Alignment of Rafkhal -b K	holyny Geema-Ristana	) Motor Road
Length	3.3	vo km		
Scheme	e :			
SI.No.		ITEMS	ALIGNMENT 1	ALIGNMENT 2
9	Α	Existing means of inter communication (mule Path, Jeep Track etc.)	Foot Path & Mule Path	Foot Path & Mule Path
	В	Relation of proposed Alignment	Proposed Road Starts From km.	Proposed Road Starts From km
P.		with existing and under construction road	27.00 of Barkinda- Manila- Dotiyal	27.500 of Barkinda- Manila
			Motor Road	Dotiyal Motor Road
10	А	Availability of Road construction Material	Stone is locally aviallable and grit sand etc. from kosi River Ramnagar	Stone is locally aviailable and grit sand etc. from kosi River Ramnagar
	В	Location of Quarries	For sand and Grit 80.00 Km.	For sand and Grit 80.00 Km.
	С	Average leads	Expected on the alignment	Expected on the alignment
11	Fac	ilities & Resources		
	A	Landing Ground	Nill	Nill
	В	Dropping Zone	Nill	Nill
	C	Food Stuffs	Ratkhal, dotiyal, Bhikiyasen	Ratkhal, dotiyal,Bhikiyasen
	D	Labour locally available or need of	50 % Locally Available rest from	50 % Locally Available rest from
		import	Nepal	Nepal
	E	Construction Materials	Available within 80.00 Km	Available within 80.00 Km
	F	Timber,Bamboo,Sand,Shingle,Grit etc. Extent of their availability & lead involved	Equipment Will available on RamNagar or Haldwani	Equipment Will available on RamNagar or Haldwani
12		ess point indicating possibility of upment	Equipment Will available in Haldwani.	Equipment Will available in Haldwani.
13		nate condition		
	А	Temperature Maximum & Minimum	Max 30 C, Min 1 C.	Max 30 C, Min 1 C.
	В	Rainfall Data Average Annual Peak Intensity, Monthly distribution of the available road Length coveredby snow (Average and Period)	1200 mm	1200mm
	С	Wind direction of velocity	From North and South with moderate velocity	From North and South with moderate velocity
	D	Fog conditions	Some Fog in winter & Rainy Season.	Some Fog in winter & Rainy Season.
P.	E	Exposure to sun	Well Exposure to sun	Well Exposure to sun
	F	Drainage Characterstics of the area including susceptibility to damage	Good Natural Drainage hence susceptibility to Damage in Minimum	Good Natural Drainage hence susceptibility to Damage in Minimum

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छाया प्रति प्रमाणित

वहायक प्राप्तक्ताः विमाण बण्ड जो श्रीकार्णिक संबद्ध (बल्पीका)



	DETAIL OF	ALIGNMENT	The second secon
		11 1: /1	0.1 \
Name o	of work: Alignment of Latkhal +	Khalyen Jeuna-	historia) Motos Noad
Scheme		1	
SI.No.	ITEMS	ALIGNMENT 1	ALIGNMENT 2
14	Land of landslide	Nil	Nil
15	Length of unstable area	Nil	Nil
16	Length of heavy clearing	Nil	Nil
17	Length of marshy and flooded	Nil	Nil
18	Length of position with loose	Nil	Nil
19	Vegetation extent/Type	Ordinary Bushes	Ordinary Bushes
20	Period required for construction	One Year	One Year
21	Politicle Aspect	Normal	Normal
22	Village Falling on Terrain		
	Name of important village, Town, Marketing Centers, other	Ratkhal, Bhikiyasen and Manila	Ratkhal, Bhikiyasen and Manila
23	Strategic Condition	Nill	Nill
24	Economic & Industrial Consideration	Normal	Normal
25	Population Served by Alignment	802	802
26	Recreational Potential & Potential of Development	Nill	Nill
27	Scope for Agricultural and Horiculture Develo	Good	Good
28	Extent of forest wealth	Normal	Normal
29	Possibility of Development of minor or any other major	Nill	Nill
30	Approximate cost of construction of each alig	Rs.572.70 Lacs (Approx 69.00/km.)	Rs.621 Lacs (Approx 69.00/km.)

John

सटापर अभिग्नता निर्माण स्वयः हो । नि विक सर्वा (अस्पोड़ा)

छाया प्रति प्रमाणित

तहानच्याभदण्या विमीण बण्ड वोश्विश्विक बण्ड (बल्योज़ा)

## DETAIL OF ALIGNMENT

Name of work: Alignment of Length: 2300 KM Scheme : ALIGNMENT 2 ALIGNMENT 1 SI.No. ITEMS Merits & Demerits. 31 1. No any Irregated and Cultivated 1. No any Irregated and Cultivated Land involved. Land involved.. 2. Alignment is passing Through stable 2. Alignment Accepted by Villagers Merits Area. & their elected reprisentative. 3. Alignment is passing Through stable Area. 1.Alignment didn't Accepted by В 1. Some Trees are coming in the Villagers & their elected alignment. representative. 2. 10 HP Bands Provided **Demerits** 2. Length of roadis longer side. 3.10 HP Bands Provided. Proposed Road Starts From Proposed Road Starts From km. Relation of proposed alignment 27.500 of Barkinda- Manila- Dotiyal 27.00 of Barkinda- Manila- Dotiyal with existing and road under Motor Road Motor Road 32 construction For sound and Ant Solker. Position of Quarry 33 For sound and Any other useful information viz. Not Known Not Known other important 34

Jr. Engineer Constt Div. P.W.D. (PMGSY) Sult(Almora)

Engineering

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Recommendendation of Exicutive

Assistant Engineer Constt Div. P.W.D. (PMGSY) Sult(Almora)

approvel.

Alignment-1 (Shown in Red on

Contour Map) is Recommended for

Executive Engineer Constt Div. P.W.D. (PMGSY) Sult(Almora)

Alignment-2 (Shown in Green on

Contour Map)

छाया प्रति प्रमाणित

বস্থানত পিরবল্যা শৈষাত্ম লব্দ লাঙগিঙানিত নহন (নহলীয়া)