

Name of the Work- Construction of Tharali to Paingarh Motor Road under PMGSY

Comparison between identified alignments SI. No. Variables Alignment No-1 Alignment No-2 1 Topography Mountainous Mountainous 2 Length of Road 8.725 km 9.350 km 3 Bridging requirement No. and 03 4 Geometric (a) Gradients 1.20 1:20 (b) Curves, H.P Bends 07 numbers of H.P. Bends 08 numbers of H.P. Bends Means of By mule path By mule path communication, mule path, jeep, Tracks etc. Right of way, bringing out. Right of way is available for carrying Right of way is available for carrying 6 construction on account of out the construction work. There are out the construction work. There are built up areas, monuments no built up area, monuments or other no built up area, monuments or other and other structures. important structures along this important structures along this alignment alignment (a) Terrain & Soil Condition. The terrain is hilly and the soil is a mix The terrain is hilly and the soil is a of Earth and Boulders, Soft Rock and mix of Earth and Boulders, Soft Rock Hard Rock. and Hard Rock. (i) Cliffs and gorges. (i) None (i) None (ii) Drainage characteristics of (ii) natural Drainage (ii) The natural Drainage including characteristics of the area is good and characteristics of the area is good susceptibility to flooding . there is no susceptibility to flooding and there is no susceptibility to flooding. (iii) General elevation of the (iii) The General elevation of the road (iii) The General elevation of the road road indicating maximum and is 1200 m. The elevation at the is 1200 m. The elevation at the minimum height negotiated by starting point of the road is 1277 m starting point of the road is 1277 m main ascends and descends. and the elevation at the end point of and the elevation at the end point of the road is 1130 m. Thus the road the road is 1130 m. Thus the road achieves a fall of 147 m. achieves a height of 147 m. extant and 64 / 100 (Attached after comprative) (iv) Variations 64 / 100 (Attached after comprative) types. 8 Climate Condition: (a) Temperature Monthly max. (a) Temperature Monthly max. & min. (a) Temperature Monthly max. & min. & min. reading. reading (Avg. data of 12 years) reading (Avg. data of 12 years) Month Temperature (in °C) Month Temperature (in °C) Max. Min. Max. Min. January 18 2 January 18 2 Feb. 9 Feb. 22 9 March 28 15 March 28 15 April 34 20 April 34 20 May 35 May 20 35 20 June 32 21 June 32 21 July 31 21 July 31 21 31 24 August 31 24 August September 130 21 30 September 21 October 26 23 October 26 23 25 November 12 November 25 12 December 20 13 December |20 13 average (b) Rainfall data average annual peak (b) Rainfall data average annual peak Rainfall data (b)



Executive Engineer R W D. P M G S Y Karanprayag-1 intensities monthly distribution

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peak

monthly distribution (to the

annual



No.	Variables	Alignment No-1		Alignment No-2		
	extent available) .	Month	Average Rainfall Data (in mm)	Month	Average Rainfall Data (i	
		January	75	lonuoni	mm) 75	
		Feb.	78	January Feb.	78	
		March	78	March		
		April	35		78	
		May	52	April	35	
		June	142	May	52	
		July	335	June July	142	
		August	280		335	
		September	150	August September	280	
					DOMESTIC CONTROL OF THE PROPERTY OF THE PROPER	
		October	66	October	66	
			12	November		
	(c) Snowfall data average		33	December	33	
	extent available).	depth on an		depth on an	average.	
	(d) Wind direction and	(d) Owing to	the nature of terrain local	(d) Owing to	the nature of terrain loca	
	velocities.	affect are pronounced and when the		affect are pronounced and when the		
		general prevailing winds not too strong to mask these effect, there is a tendency for diurnal reversal of winds, the flow being anabatic during the day and katabatic at night, the latter being		general prevailing winds not too strong to mask these effect, there is a tendency for diurnal reversal of winds, the flow being anabatic during		
	(e) Fog Condition.	conditions i during the r January, s	lly there are no fog in the area. However, nonth of December and light foggy conditions g night, with clear sky in	conditions in during the re January, s	in the area. However, nonth of December and light foggy conditions	
(f)	(f) Exposure to sun.	(f) The site	e is exposed to sun ne year.	(f) The sit		
Ì	(g) Unusual weather condition	(a) There is	no record of unusual	(a) There is	no record of unusual	
	like cloud burst etc.	weather con-	dition like cloud burst in	weather con	dition like cloud burst in ere the site is located.	
+	Facilities resources.					
	(a) Landing ground.	(a) None		(a) None		
				(a) None		
	(b) Dropping Zone.	(b) None		(b) None		
		(c) Haldi, A Dhan, Ghehu	Adrak, Mirch, Lehsoon, ((c) Haldi, A Dhan, Ghehu		
		7.D 1 1 1	abour is available for (-	

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SI. No.	Variables	Alignment No-1	Alignment No-2				
	(e) Construction materia	(e) Stone required for the construction	(e) Stone required for th				
	(Timber, Bamboo, Sand	work shall be made available locally	construction work shall be mad				
	Stone, Shingle etc. extent o	f as it shall be obtained from hill side	available locally as it shall b				
	their availability and lead	cutting. However, sand required fo	obtained from hill side cutting				
	involved.	the construction work shall be	However, sand required for the				
		procured from the approved quarry	construction work shall be procured				
		with a distance of 13 km.	from the approved quarry with a				
		The second of the time.	distance of 13 km.				
10	Value of land, agricultura	Value of the land required for the	Value of the land required for the				
	land, Irrigated land, built up	construction of the road in this	construction of the road in this				
	land, forest land etc,	alignment is as under-	alignment is as under-				
		- Private land, 2.971 hectare @ Rs.	- Private land, 2.995 hectare @ Rs				
		26,50,00,000= Rs. 78,73,150.00	26,50,00,000= Rs. 79,36,750.00				
		- Forest Land, 4.812 hectare @ Rs.	- Forest Land, 5.275 hectare @ Rs				
		9,35,000= Rs. 45,47,340.00	9,35,000= Rs. 49,84,875.00				
			Thus total value of land = Rs				
		12420490.00	12921625.00				
11	Approximate Const. Cost.	Rs.508.56 lacs	Rs.530.65 lacs				
12	Access point indicating	Access point available for induction of	Access point available for induction of				
	possibility of induction of	equipment	equipment				
12	equipment.	40 "					
13	The state of the s	12 months	12 months				
14	construction. Strategic Consideration.	Deployment of stilled					
14	Strategic Consideration.	Deployment of skilled manpower and	Deployment of skilled manpower and				
		efficient equipment / machinery shall	efficient equipment / machinery shall				
		be made for completion of the project.					
			project.				
15	Important villages, towns and	The road shall provide connectivity to	The road shall provide connectivity to				
	markets centers to be	Village- Soona, Dewalgwar, Sunaun	Village- Soona, Dewalgwar, Sunaun				
	connected.	and Paingarh with a population of					
		359,358,327 and 359 numbers	359,358,327 and 359 numbers				
16	Recreational potential.	Nil	Nil				
17	Economic Factors:						
17	Leonomic Factors.						
	(a) Population served by the	(a) 1403 numbers	(a) 1402 average				
	alignment.	(a) 1400 Humbers	(a) 1403 numbers				
		(b) Transportation of the cultivated	(b) Transportation of the guiltivated				
	potential of the area.	crops by mechanical means (i.e	crops by machanical magna (i.e.				
	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	through road) shall enhance the	through road) shall sahanse the				
		economical condition of the people	anough road) shall enhance the				
		residing in this area. Potential of the	reciding in this ease. Detection of the				
		octoophicit of animal husbandry.	development of animal husbandry.				
18	Other major development	None	None				
	projects being taken up	1010	NOTE				
	electric projects etc.						
	ciccino projecto etc.						
19	(i) Misc. Such as camping	(i) Camping sites to be located along	(i) Camping sites to be located along				
			the alignment of the road.				
	OILOO I	and an in the country of the country	are anginitely of the road.				

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SI. No.	Variables	Alignment No-1	Alignment No-2 (ii) There is no significant law and corder problem in the area and the local administration takes care of such matters. (iii) Royalty is paid to the Revenue Department. (iv) Available	
	(ii) Law and other problem	(ii) There is no significant law and order problem in the area and the		
	(iii) Royalty	(iii) Royalty is paid to the Revenue Department.		
	(iv) Availability of contractors for collection and carriage of construction material			
	(v) Working period available for construction of work.	(v) 09 months in a year	(v) 09 months in a year	
20	Total No. of trees to be removed.	473 numbers	Approximately 540 numbers.	
21	Average Density of forest cover.	0.2 (Dense Forest)	0.2 (Dense Forest)	
22	Total No. of Merits	16	11	
23	Total No. of Demerits	05	10	

Note- Colour filled Cell is the de-merit of the alignment whereas no fill is the merit of the alignment RECOMMENDATIONS:

Alignment no. -1 is Recommended for approval being more economical, useful & technically feasible.

Assistant Engineer RWD. PMGSY

Karanprayag-1

Executive RWD.PMC Karannra

यन बेजाधिकारी

मध्य विण्डर वन क्षेत्र, कराकी

वदीनाम बन प्रभाग मोवेश्वर

D.F.O.

वदीनाथ वन प्रभाग गोपेश्वर