

**Construction of Didihat - Adichaura PWD motor road to Hunera motor road from Km. 0.0000 to 9.000 Km under PMGSY**

**Sanctioned Length: - 9.000 Km.**

Sr. No.	Item	Alignment	
		Alignment 1	Alignment 2
1	Details of route, vis-à-vis topography of the area  Main features and description of the alignment.	Alignment takes off End Point of Didhat to Adichaura motor road. Grade of this alignment are 1:20 rise, 1:20 fall, 1:40 fall, 1:20 fall, level, 1:24 fall, 1:18 fall, 1:14 fall and 1:20 fall.  It shall run through Nap and, Van Panchayat and Civil land. Seven H.P. Bends provided.	Alignment takes off End Point of Didhat to Adichaura motor road. Grade of this alignment are 1:16 rise, 1:14 rise, 1:10 rise, 1:20 fall, 1:18 fall, 1:30 fall, 1:14 fall, 1:16 fall, 1:12 rise, 1:14 rise, 1:24 fall, 1:20 fall and 1:22 fall. It shall run through Civil land, Van Panchayat land and Nap land. Six H.P. Bend provided.
2	Length of the alignment from starting point to terminal point.	9.000 Kms	11.500 Kms
3	Geometric A. Gradient in different stretches of the alignment.  B. Curves and Hair pin bends.	1:20 rise, 1:20 fall, 1:40 fall, 1:20 fall, level, 1:24 fall, 1:18 fall, 1:14 fall and 1:20 fall.  All curves as per IRC Seven H.P. Bends.	1:16 rise, 1:14 rise, 1:10 rise, 1:20 fall, 1:18 fall, 1:30 fall, 1:14 fall, 1:16 fall, 1:12 rise, 1:14 rise, 1:24 fall, 1:20 fall and 1:22 fall. All curves as per IRC Six H.P. Bend.
4	Terrain and soil condition 1. Geology of the road.  Road length passing through 1. Mountainous terrain cross slope from 25 <sup>0</sup> to 60 <sup>0</sup> 2. Steep terrain cross slope greater than 60 <sup>0</sup> 3. Rocky stretches with indication in length in loose. 4. Area subject to avalanches and snow drifts.	E&B, OR, HR  8.625 Kms 0.375 Kms Nil Nil	E&B, OR, HR  10.950 Kms 0.550 Kms Nil Kms Nil
5.	Nature of soil A. Length of reaches with earth and boulders. B. Length of reaches with hard rock/Shale C. Length of reaches with medium rock/ Shale. D. Length of reaches with VHR/VHS.	1.425 Kms 0.375 Kms 7.200 Kms Nil Kms	3.325 Kms 0.550 Kms 7.625 Kms Nil Kms



Sr. No.	Item	Alignment	
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6	<p>A. Bridge Requirements Minor Bridge</p> <p>i. Total number.</p> <p>ii. Range of span</p> <p>iii. Total water way.</p> <p>B. Major Bridges</p> <p>i Total number</p> <p>ii Range of span</p> <p>iii Total water way</p> <p>iv Length of cliffs and gorges.</p> <p>V Scuppers</p>	<p>01 No. Culvert, 04 No. R.C.C. Bridges.</p> <p>6 m., 10 m., 12 m., 15 m., 10 m.</p> <p>5.75 m., 9.25 m., 11.45 m., 14.35 m. and 9.45 m.</p> <p>Nil</p> <p>Average 8 Nos .Per Km</p>	<p>06 No. R.C.C. Bridges.</p> <p>10 m., 8 m., 10 m., 8 m., 8 m., 10 m.</p> <p>9.50 m., 7.20 m., 9.45 m., 8.80 m. and 9.80m.</p> <p>Nil</p> <p>Average 8 Nos .Per Km</p>
7.	<p>Right of way bringing out construction</p> <p>Approximate area and value</p> <p>i Cultivated.</p> <p>ii Irrigated.</p> <p>iii Un irrigated.</p> <p>iv Civil soyam &amp; Banjar Land.</p> <p>v Forest land</p> <p>vi Van Panchayat</p>	<p>1.425 Kms</p> <p>Nil Kms</p> <p>1.425 Kms</p> <p>0.400 Kms</p> <p>Nil Kms</p> <p>7.175 Kms</p>	<p>3.325 Kms</p> <p>1.850 Kms</p> <p>1.475 Kms</p> <p>4.250 Kms</p> <p>Nil Kms</p> <p>3.925 Kms</p>
8	<p>General Elevation of Road</p> <p>i Indicating maximum and minimum heights negotiated by main ascent and descent.</p> <p>ii Total Ascent and descent</p>	<p>Minimum &amp; Maximum heights 1812 m and 1423 m.</p> <p>Through Up &amp; Down.</p>	<p>Minimum &amp; Maximum heights 1811 m and 1411 m.</p> <p>Through Up &amp; Down.</p>
	<p>A. Existing means of inter communication (Mule path, Jeep etc)</p> <p>B. Relation of proposed alignment with existing and under construction roads.</p>	<p>Mule path and foot track</p> <p>Proposed Alignment takes off End point of Didihat to Adichaura motor road.</p>	<p>Mule path and foot track</p> <p>Proposed Alignment takes off End point of Didihat to Adichaura motor road.</p>
10	<p>A. Availability of road construction materials.</p> <p>B. Location of quarries.</p> <p>C. Average leads.</p>	<p>Locally available.</p> <p>Pithoragarh for send</p> <p>Expected on the alignment</p> <p>As per P.W.D. Block S.O.R.</p>	<p>Locally available.</p> <p>Pithoragarh for send</p> <p>Expected on the alignment</p> <p>As per P.W.D. Block S.O.R.</p>



Sr. No.	Item	Alignment	
		Alignment 1	Alignment 2
11	Facilities/ Resources A. Landing ground. B. Dropping zone. C. Food stuffs. D. Labour locally available or need of import.  E. Construction materials.  F. Timber, Bamboo, Sand, Stone, Shingle, shingle, Grit etc. extent of their availability & lead involved.	Nil Nil Pithoragarh 50% Labors Available Locally and rest From Nepal Stone Mostly  Available With In 50-80 Kms	Nil Nil Pithoragarh 50% Labors Available Locally and rest From Nepal Stone Mostly  Available With In 50- 80 Kms
12	Access point indicating possibility of equipment Climate conditions.	Didihat, Pithoragarh	Didihat, Pithoragarh
13	A. Temperature maximum & minimum. B. Rainfall data average annual peak intensities. C. Length of road covered by snow average and period. D. Wind direction and velocities.  E. Fog conditions.  F. Exposure to Sun.	Max 16 C, Min 2 C 950 mm  Dec. to Jan.  From North and South with moderate velocity Negligible  Well expose to sun	Max 16 C, Min 2 C 950 mm  Dec. to Jan.  From North and South with moderate velocity Negligible  Well expose to sun
14	Drainage characteristics of the area indicating susceptibility to damage.	Good natural drainage, hence susceptibility to damage in minimum.	Good natural drainage, hence susceptibility to damage in minimum.
15	Length of land slides.	Nil	Nil
16	Length of unstable areas.	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 construction.	18 month (working season)	18 month (working season)
21	Vegetation extent/ type	Ordinary bushes and some trees	Ordinary bushes and some trees



Sr. No.	Item	Alignment	
		Alignment 1	Alignment 2
22	Crident Aspect A Village following on or within. I 2Km. of the alignment. ii. 2.000Km to 9.000 Km. of the alignment.	One One	One One
23	Important villages, town / marketing center connected.	Pithoragarh, Didihat	Pithoragarh, Didihat
24	Economic & industrial consideration. i population served by alignment. ii Agriculture potential for development of forest. iii Recreational potential	Approximate Good  Will Increase	Approximate Good  Will Increase
25	Strategic conditions.	Good	Good
26	Scope of agriculture and Horticulture development.	Normal	Normal
27	Extent of forest wealth.	Will Increase	Will Increase
28	Prospect of development of minor or any other major development project being taken up in the O.S. Hydro Electric Project.		
29	Approximate cost of construction of each alignment	650.25 (Taking 72.25 Lac/Km)	859.62
30	Merits & Demerits.		
	A. Merits	1. Alignment accepted by Villagers & Elected Public representatives of the area. 2. One Culvert and Four R.C.C. Bridges. 3. Alignment is passing through stable area.	1. Six H.P bends.  2. Six R.C.C. Bridge. 3. Alignment is passing Through Steep area.
	B: Demerits	1. Seven H.P Bend.	1. Alignment is not accepted by Villagers & Elected Public Representatives of the area. 2. Increasing of Nap Land, Private Trees in alignment.



Sr. No.	Item	Alignment	
		Alignment 1	Alignment 2
31	Any other useful information (Viz Other important project being undertaken in the area required for the completion of work)	Yet not is consideration	Yet not is consideration
32	Recommendation of Executive Engineer	Alignment No.1 is recommended for sanction	
33	Order of the Superintending Engineer with reasons		

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JE

*[Signature]*  
AE

*[Signature]*

*[Signature]*  
Executive Engineer  
Rural Works Department  
P. M. S. Y. D. D. Dun

*[Signature]*  
प्रधान  
ग्राम पंचायत हुनेरा  
वि०ख०-डीडीहाट  
पिथौरागढ़

*[Signature]*  
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