

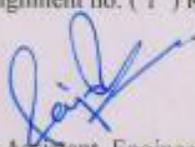
Performa for comparison between identified alignments

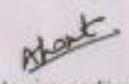
| Sl. No | Variables | Alignment No-1 | Alignment No-2 |
|--------|---|---|---|
| 1 | Topography | Hilly, Start from km 35.00 ahead from Khatigaon to Basptan Motor Road | Hilly, Start from km 35.00 ahead from Khatigaon to Basptan Motor Road |
| 2 | Length of Road | 7.10 Km | 8.15 km |
| 3 | Bridging requirement No. and Length | 3 No Culvert (5 mtr) 1 No RCC Bridge (16 mtr) | 3 No Culvert (5 mtr) 1 No RCC Bridge (16 mtr) |
| 4 | Geometric | Napland/Forest | Napland/Forest |
| | (a) Gradients | +1:20,-1:20,0:0,-1:24,-1:18+1:40,-1:40,+1:24,-1:24 | +1:11, 0:00,-1:14,+1:10,+1:60,-1:16,-1:14,-1:12,+1:10,-1:60,+1:11,-1:11 |
| | (b) Curves, H.P Bends | 3 No of H.P. Bends | 5 No of H.P. Bends |
| 5 | Existing Means of communication, mule path, jeep, Tracks etc. | Village are connected are foot track | Village are connected are foottrack |
| 6 | Right of way, bringing out construction on account of built up areas, monuments and other structures. | No such construction involved | No such construction involved |
| 7 | (i) Terrain & Soil Condition. (ii) Nature of soil (iii) Geology of the area mountainus terrain. (iv) Area subjected to avelanches and snow drift. (v) Slip Zone area | (i)E&B. OR, HR (ii) Cultivated and hill area (iii) Approx. 20% (iv) NIL (v) NIL | (i)E&B. OR, HR (ii) Cultivated and hill area (iii) Approx. 20% (iv) NIL (v) NIL |
| | (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 discends. (ix) Variations extants and types. | NIL Area has good drainage Maximum height 1400mtr Minimum height 1100mtr NIL | NIL Area has good drainage Maximum height 1400mtr Minimum height 1100mtr NIL |
| 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. | Maximum 17 ⁰ C Minimum 2 ⁰ C 1300mm July-Aug & Dec-Jan NIL From North to South with moderate Velocitties Some fog in winter and rainy season. Well esposure to sun NIL | Maximum 17 ⁰ C Minimum 2 ⁰ C 1300mm July-Aug & Dec-Jan NIL From North to South with moderate Velocitties Some fog in winter and rainy season. Well esposure to sun NIL |
| 9. | Facilities resources. (a) Landing ground. (b) Dropping Zone. (c) Food stuffs. | Not Available Not Available Crops, Vegetables, Fruits, | Not Available Not Available Crops, Vegetables, Fruits, |

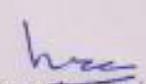
| | | | |
|-----|--|---|--|
| | (d) Labour local availability and need for import. (e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved. | Milk 50% Labour locally available and rest from Nepal. Available within 50 to 80 km | Milk 50% Labour locally available and rest from Nepal. Available within 50 to 80 km |
| 10. | Value of land, agricultural land, Irrigated land, built up land, forest land etc. | As per Govt. Rate | As per Govt. Rate |
| 11. | Approximate Const. Cost. | 385.00 Lacs | 448.00 Lacs |
| 12. | Access point indicating possibility of induction of equipment. | Equipment available in Haldwani. | Equipment available in Haldwani. |
| 13. | Period required for construction. | Two year after land transfer. | Two year after land transfer. |
| 14. | Strategic Consideration. | To provide better communication | To provide better communication |
| 15. | Important villages, towns and markets centers to be connected. | Mnakabhata | Manakbhata |
| 16. | Recreational potential. | NIL | NIL |
| 17. | Economic Factors: (a) Population served by the alignment. (b) Agricultures and economic potential of the area. | 1301 Good | 1301 Good |
| 18. | other major development projects being taken up electric projects etc. | NIL | NIL |
| 19. | (i) Misc. Such as camping sites (ii) Law and other problem (iii) Royalty | NIL NIL NIL | NIL NIL NIL |
| | (iv) Availability of contractors for collection and carriage of construction material (v) working period available for construction of work. | Local contractor available for the work 9 month in a year | Local contractor available for the work 9 month in a year |
| 20. | Total No. of trees to be removed . | 330 | 410 |
| 21. | Average Density of forest cover . | Normal | Normal |
| 22. | Total No. of Merits | 1- Alingment accepted by villagers & elected public representatives of the area 2- 03 No Culverts, 01 No RCC Bridge and 3- Alingment is passing through stable area | 1- 5 H.P. Bends 2- 2 No of RCC Bridge 3- Alingment is passing through steep area. |
| 23. | Total No. of Demerits | 1- 3 H.P. Bends. | 1- 1- Alingment is not accepted by villagers & elected public representatives of the area 2- Increasing of Nap Land, Private Trees and Forest Land and Civil Land in Alingment. |

RECOMMENDATIONS:

Alignment no. (1) Recommended for approval being more economical, useful & technically feasible.


A. Assistant Engineer/J.E.
PMGSY I.D. Bageshwar


Assistant Engineer
PMGSY I.D. Bageshwar


Executive Engineer
PMGSY I.D. Bageshwar
निर्देशक (नि.नि.)
बगेश्वर