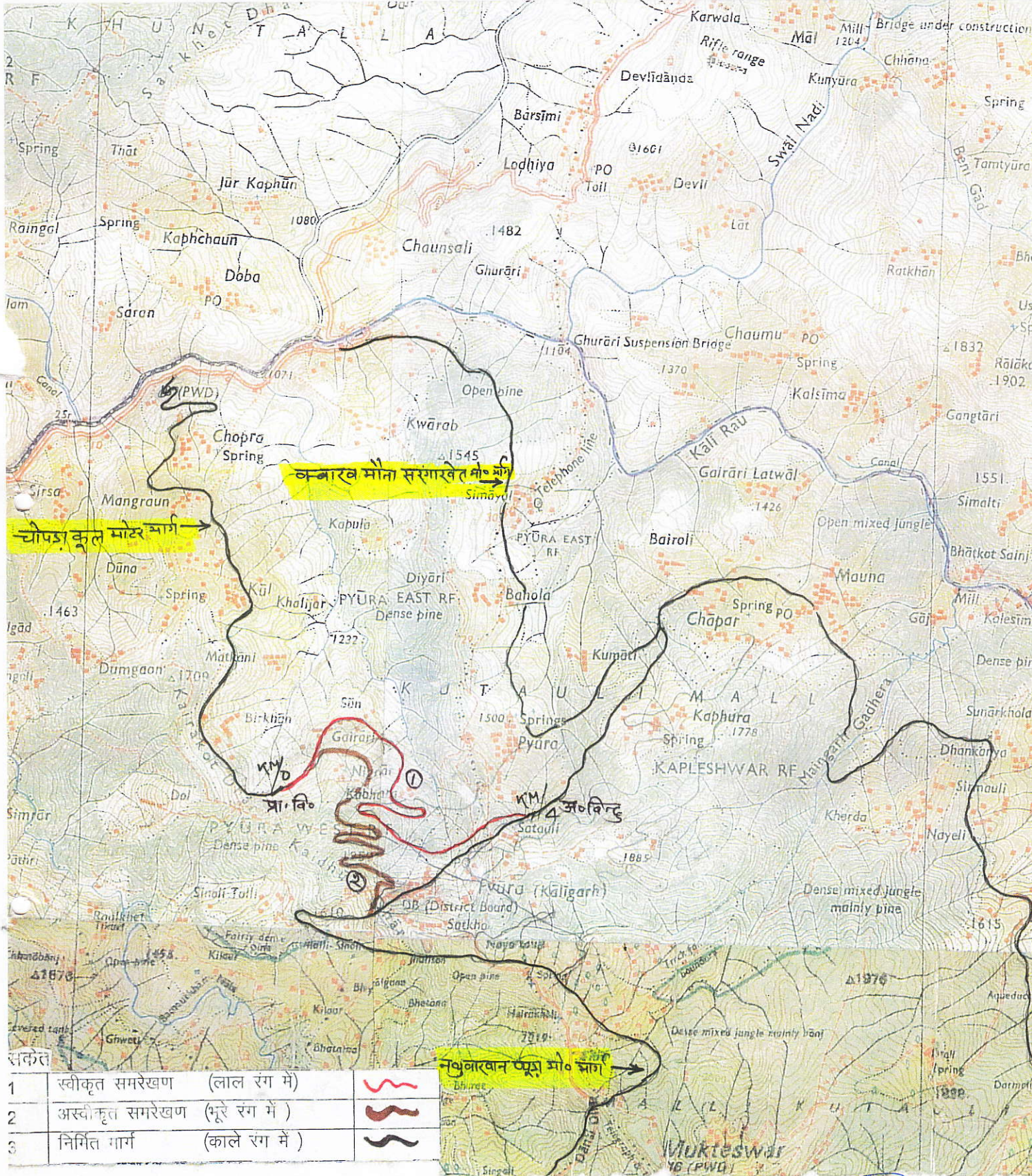


परियोजना का नाम — कूल विरखन से सूड होते हुए प्यूडा इन्टर कॉलेज तक मोटर मार्ग निर्माण हेतु समेकित वन भूमि हस्तान्तरण प्रस्ताव ।



| | | |
|---|--------------------------------|--|
| 1 | स्वीकृत समरेखण (लाल रंग में) | |
| 2 | अस्वीकृत समरेखण (भूरे रंग में) | |
| 3 | निर्मित मार्ग (काले रंग में) | |

अशीन

कनिष्क अभिनव

सहायक अभिनव (तृतीय)
नि०ख०लो०नि०वि०
नैनीताल

अधिशस्त्री अभिनव
नि०ख०लो०नि०वि०
नैनीताल

उप प्रभागीय वनाधिकारी (मुक्ते०)
उप प्रभागीय वनाधिकारी (मु०)
वन प्रभाग नैनीताल

प्रभागीय वनाधिकारी
वन प्रभाग नैनीताल

Comparative Statement of Various Alignment

Additional Attachment- 2,4

25

Name of work :- Construction OF Pura Inter College To Kool Birkham Link
moter road(Km 0.00 to 3.00)

| S.N. | Description of item | Alignment no. (1) marked with RED colour | Alignment no.(2) marked with GREEN colour |
|------|--|---|---|
| 1 | 2 | 3 | 4 |
| 1 | Main features of Alignments: | Starting from Km 9 H.M. (6-8) of Nathuakhan Pura M/R and passes through village Naulikhan, and finished at Khabra village | Starting from Km 9 H.M. (6-8) of Nathuakhan Pura M/R and passes through village Naulikhan, and finished at Khabra village |
| 2 | Length of road from starting to terminal point. | 3.000 km | 3.75 Km |
| 3 | Geometric | | |
| | (a) Gradient in different stretches of the alignment | 1: 20(R), Level, 1:40 (R), 1: 40(R) | 1:20 (R),1:30 (R),1:18 (R). 1:24(R) . |
| | (b) Curves | As per I R C | As per I R C |
| | (c) Hair pin bends numbers | 1 Number | No Hair pin bends |
| 4 | Terrain & Soil conditions | Hilly area consisting | Hilly area consisting |
| | (a) Geology of the area | E&B / HS./ V.H.S./H.R./V.H.R. | E&B / HS./ V.H.S./H.R./V.H.R.. |
| | (b) Road length passing through | | |
| | (i) Mountainous terrain(cross slope 25% to 60%) | 3.00 Km. | 3.75 Km |
| | (ii) Steep terrain (cross slope more than 60%) | Nil | Nil |
| | (iii) Stretches with indications of loose rock conditions. | Nil | Nil |
| | (iv) Areas subjected to avalanches or snow drifts. | Nil | Nil |
| 5 | Nature of soil | | |
| | (a) Length of reaches with Earth & Boulders. | 1.5.00 Km | 3.00 Km |
| | (b) Length of reaches with Hard rock/Hard shale. | 0.50 Km | Nil |
| | (c) Length of reaches with Medium rock/Med. Shale. | 0.50 Km | 0.75 Km |
| | (d) Length of reaches with Homogeneous rocks. | Nil | Nil |
| 6 | Requirements of Bridges/Culverts/Scuppers. | | |
| | (a) Minor bridges | | |
| | (i) Total number | 1 | 1 |
| | (ii) Range of span | 8-10 M. | 8-10 M. |
| | (iii) Total water way | 4 | 4 |
| | (b) Major Bridges | | |
| | (i) Total number | Nil | Nil |
| | (ii) Range of span | Nil | Nil |
| | (iii) Total water way | | |

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| 1 | 2 | 3 | 4 |
|-------|---|---|---|
| 7 | General elevation of road indicating maximum & minimum heights by mean ascents & descents. | As per L-Section shown minimum 922.00 865.00 M maximum--1000.000 M | As per L-Section shown minimum 922.00 865.00 M maximum--1000.000 M |
| (a) | Total numbers of ascents & descents | L - Section attached | L - Section attached |
| (b) | Length of cliffs & gorges | Nil | Nil |
| 8 (a) | Right of way bringing out constraints on account of built up area, monuments & other structures. | None | None |
| (b) | Approximate area & value | Approximate 30% cultivated land & 77% uncultivated & Banger land . | Approximate 75% cultivated land & 25% uncultivated & Banger land . |
| (i) | Cultivated | 1.000 km | 2.000 km |
| (ii) | Irrigated | 0.500 km | 1.000 km |
| (iii) | Un -Irrigated | 0.500 km | 0.750 km |
| 9 (a) | Existing means of intercommunication (mule path, jeep, truck etc.) | Villagers foot track/ mulepath | Villagers foot track/ mulepath |
| (b) | Availability of road construction materials. | Stone | Stone |
| (i) | Location of quarry | Haldawani | Haldawani |
| | Sand | Haldawani | Haldawani |
| | Stone | Available nearby locally | Available nearby locally |
| (ii) | Lead | Haldawani | Haldawani |
| | Sand | 80 km by moter road | 80km by moter road |
| | Stone | 1 km by head load / by mule | 1 km by head load / by mule |
| 10 | Facility/ Resources | | |
| (a) | Landing ground | None | None |
| (b) | Dropping zone | None | None |
| (c) | Food stuff | None | None |
| (d) | Labour local availability & Need of import | Few local labour rest import from out side | Few local labour rest import from out side |
| (e) | Construction materials, timber, bamboo, sand, stone, shingle etc, availability and lead involved. | as above. | as above. |
| 11 | Access. points indicating possibility of equipment's. | During construction equipment can be transpoted through bridle path | During construction equipment can be transpoted through bridle path |
| 12 | Climatic conditions | | |
| (a) | Temperature maximum/minimum. | 30° C - 5° C | 30° C - 5° C |
| (b) | Rainfall average,annual,peak intensity. Monthly description to the extent possible. | Data not available. | Data not available. |
| (c) | Length of road covered by snow(average & peak) | Nil | Nil |
| (d) | Wind direction | West to East | West to East |
| (e) | Fog conditions | During rainy season | During rainy season |
| (f) | Exposure to sun | Full day during clear weather. | Full day during clear weather. |



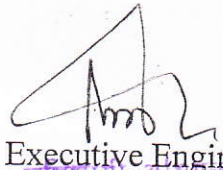
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| 1 | 2 | 3 | 4 |
|----|---|--|--|
| 13 | Drainage characteristic of the area indicating susceptibility of damages. | Storm water drains through natural rivers / slopes ..Damage may be rainy season | Storm water drains through natural rivers / slopes ..Damage may be rainy season |
| 14 | Length of land slides. | Nil | Nil |
| 15 | Length of heavy clouding | Nil | Nil |
| 16 | Length of marshy or flooded area. | Nil | Nil |
| 17 | Length of portions with loose rock. | Nil | Nil |
| 18 | Period required for construction. | 2 years | 2 years |
| 19 | Vegetation extent type | Bushes | Bushes |
| 20 | Political aspects(villages falling within.population) | | |
| | (a) 1 st km. of the alignments | As per L - Section attached | As per L - Section attached |
| | (b) 1 to 5 km. of the alignment | -----do----- | -----do----- |
| 21 | Important village, town, marketing center connected. | Naulikhan & Khabra | Naulikhan & Khabra |
| | Strategic considerations. | Crops, vegetable & Fruit etc | Crops, vegetable & Fruit etc |
| 22 | Economical & Industrial considerations. | Farm / hortico produce. | Farm / hortico produce. |
| 23 | Population served by the alignment | More than 350 | More than 350 |
| | (a) Recreational potential for development. | None | None |
| 24 | Scope of agricultural & horticultural development. | 100% | 100% |
| 25 | Extent of forest wealth. | Nil | Nil |
| 26 | Prospects of development of minor or any other major development project being taken in the O.S. Hydro Electrical Project | None | None |
| 27 | Approximate cost of each alignment. | 128.40 Lacs | 133.75 Lacs |
| 28 | Merits | | |
| | (i) | Alignment passes through Nap Land & easily available for construction | Alignment passes through Nap Land & not easily available for construction |
| | (ii) | Eassy construction | Eassy construction |
| | (iii) | Less construction cost | More construction cost |
| | (iv) | Strong recommendation by villegers, & General people are in favour of this alignment | ----- |
| | Demerits. | | |
| | (i) | No Demerits. | During construction damage some propoty . & vegetation. |
| | (ii) | ----- | Strong Rejected by villegers, & General people are not in favour of this alignment |

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|--|---|---|-------|
| 29 | Any other important information (v.i.s.other important projects being undertaken in the area, required for completion of the work) | Nil | Nil |
| | Reccommendation of Executive Engineer. | The alignment no.1 marked Red is reccommended for construction in view of above facts. | ----- |
| <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  J.E. </div> <div style="text-align: center;">  J.E. सहायक अभियन्ता निर्माण खण्ड, लो० नि० वि० नैनीताल </div> <div style="text-align: center;">  Executive Engineer अधिशासी अभियन्ता निर्माण खण्ड, लो० नि० वि० नैनीताल. </div> </div> | | | |