

DETAIL OF TOPOGRAPHY OF ALIGNMENT

कार्य का नाम:- वित्तीय वर्ष 2016-17 में जनपद नैनीताल के विधान सभा भीमताल के अन्तर्गत विकास खण्ड शम्भुगढ़ के मौना-ल्वेशाल-कालापातल मोटर मार्ग के किमी 0 10 से इण्टर कॉलेज व प्राइमरी पाठशाला होते हुये मटियाली से प्राचीन मन्दिर कालीरौ तक मोटर मार्ग का नव निर्माण कार्य (लम्बाई:-3.000किमी0)

S.N.	Point of Topography of the Road	Proposed Alignment No-1	Proposed Alignment No-2
1	Main features and Description of Alignment	This alignment started from Km.10.0 of Mouna -Lewesal-Kalapatal motor Road and connects Villages GIC lewesal to Primary School Lewesal to Matiyali	This alignment started from Km11.0 of Mouna -Lewesal-Kalapatal motor Road and connects Villages Primary School Lewesal to Matiyali
2	Length of the alignment from starting to terminal point	3.00 km	3.80 Km.
3	Geometries:- (I) Gradient in different stretches (ii)Curves and hairpin bends etc.	1:20F,1:22F,1:24F & 1:40F,1:60 F 04 No	1:18F/F,1:40F, 6 No
4	Terrain soil conditions:- (I) Geology of area (ii) Road length passing through (a) Mountainous terrain (cross slop from 25% to 40 %) (b)Mountainous terrain (cross slop from 40% to 70%) (c)Rocky stretches with indicating of length in loose stretches (d) Snow bound area	Hill area 2.500 Km. 0.400Km. 0.100 Km. Nil	Hill area 0.750 Km. 1.80 Km. 1.25Km. Nil
5	Nature of soil :- (I) Length of reaches with earth & boulder (ii) length of reaches with medium rock/shale (iii) Length of reaches with hard rock/shale (iv) Length of reaches with homogeneous rock	2.500 Km. 0.400 Km. 0.100 Km. Nil	0.750 Km. 1.80 Km. 1.250 Km. Nil
	Requirement of bridges: 1-Minor Bridges (a) Total No. (b) Span (c)Total water ways 2-Major Bridges (a) Total No. (b) Span (c)Total water ways	Nil Nil 2No.(2N0 Causeways incl.) Nil N.A. Nil	Nil Nil 4No.(4N0 Causeways incl.) Nil N.A. Nil
7	General elevation of the road (i) Indicating maximum and minimum height negotiated by main ascends and descends (ii)Total No. of ascends & descends (iii)Total No. of cliffs & gorges	1400-1550Mts. 01 & 01 Nil	1400-1550Mts. 01 & 01 Nil


Junior. Engineer


Assistant Engineer

निर्माण खण्ड, लो०नि० विभाग
नैनीताल.आध्यात्मिक अभियन्ता
निर्माण खण्ड, लो०नि० विभाग
नैनीताल.

N.	Point of Topography of the Road	Alignment	Alignment
8	(a) Right of way bringing out construction on account of built up area, mountains and other structure.	Total Mountain Area	Total Mountain Area
	(b) Approximate area and value.		
	(i) Cultivated land	1.100 Km.	1.900 Km.
	(ii) irrigated	Nil	Nil
	(iii) Unirrigated	1.900 Km.	1.900 Km.
9	(a) Existing means of inter communications, sub path, Geep, track etc.	Bridle path, Mule track	Bridle path, Mule track
	(b) Relation of proposed alignment with exiting, under construction road.	This alignment connect to Mouna-Lewesal-Kalapatal M/R KM.10.	This alignment connect to Mouna-Lewesal-Kalapatal M/R Km.11
10	(a) Availability of road construction material.	Stone will be available from hill side cutting	Stone will be available from hill side cutting
	(b) Location of quarries	Betalghat	Betalghat
	(c) Average lead	(a)1.500Km(b)66.00Km.	(a)2.500Km(b)67.00Km.
11	(a) Facilities/resources		
	(i) Landing ground	Nil	Nil
	(ii) Dropping zones	Nil	Nil
	(iii) Food stuffs	Local food grain available	Local food grain available
	(iv) Labour (locally available or need of import)	As per contract basis (Locals & Napalis)	As per contract basis (Locals & Napalis)
	(v) Construction material -timber bamboos, stone etc.	Stone & sand locally available, grit from Betalghat &Lalkuon quarry.	Stone & sand locally available, grit from Betalghat &Lalkuon quarry.
12	Access points: Indication possibilities of inductions of equipment	Betalghat Motor road.	Betalghat Motor road.
13	Climatic condition		
	(a) Temperature Maximum and minimum	Max.(30 ⁰),Min.(2 ⁰)	Max.(30 ⁰),Min.(2 ⁰)
	(b) Rain fall dates wind direction velocity	June - September 6 to 7 hour during clear weather	June - September 6 to 7 hour during clear weather
	(c) Exposed of sun	North-West	North-West
	(d) Drainage characteristic of area, indicating susceptibility of drainage	Minor damages may occur during the rainy season.	Minor damages may occur during the rainy season.
14	Length of land slides	Nil	Nil
15	Length of unstable area	50 M	50 M
16	Length of heavy clearing	Nil	Nil
17	Length of marshy or flooded area	Nil	Nil



Junior. Engineer



Assistant Engineer
निमाण खण्ड, लो.नि. विभाग
सुन्दीचाच.


Executive Engineer
निमाण खण्ड, लो.नि. विभाग
सुन्दीचाच.

S.N.	Point of Topography of the Road	Alignment	Alignment
18	(a) Important villages, towns, market -ing center and commercial center (b) Length of portion with loose rocks villages following with (i) 1st Km. Of the alignment (ii) 1st Km.to 5th Km.of alignment	Betalghat 50 Mtrs Nil	Betalghat 50Mtrs. Nil
19	Period required for construction	Two year	Two year
20	Vegetation	Grass and bushes, Chir wood trees.	Grass and bushes, Chir wood trees.
21	Political aspects	Nil	Nil
22	Strategic conditions	Crops, vegetable & Fruit etc	Crops, vegetable & Fruit etc
23	Economic and Industrial (I) Population secured by the alignment	App.240 Total Population	App.200 Total Population
24	Recreational potential and development of tourism	Yes	Yes
25	Scope of agriculture of horticulture Development	Road construction will encourage development of Tourism, horticulture & agriculture. Locally produced fruits & vegetables will reach to the market easily.Less Distance to Thesil & Distt Head quarter.	Road construction will encourage development of Tourism, horticulture & agriculture. Locally produced fruits & vegetables will reach to the market easily.Less Distance to Thesil & Distt Head quarter.
26	Exploitation of forest wealth	Nil	Nil
27	Aspects of development of minor and major hydroelectric projects	Nil	Nil
28	Approximate cost of construction	155.80 Lac.	196.84 Lac.
29	(a) Merits (b) Demerits	1.Development of area, connects all nearby villages of above 250 population in total. 2.Shortest route to Thesil & Distt Headquarter During construction damage some property , & vegetation.	1.Development of area, connects all nearby villages of above 250 population in total. 2.Shortest route to Thesil & Distt Headquarter During construction damage some property , & vegetation.
30	As other useful information, other important project etc. being area required completion of the work	This M/R will be shortest route for these villages to connect Thesil & Distt head quarter,	This M/R will be shortest route for these villages to connect Thesil & Distt head quarter,
31	Recommendation of the Executive Engineer.	In consideration of all the above aspects of the work, Alignment -1 shown in red color seems to be most suitable and is, therefore,	In consideration of all the above aspects of the work, Alignment-2 shown in Blue color seems to be not suitable and is there fore alignment is not recommended for the favour for approval.
32	Order of Superintending Engineer	Recommended for approval.	


Junior Engineer


Assistant Engineer
निर्माण विभाग, नैनीताल.


अधिसूची अभियन्ता
निर्माण विभाग, नैनीताल
Executive Engineer
निर्माण विभाग, नैनीताल.

Additional Attachment -2.4

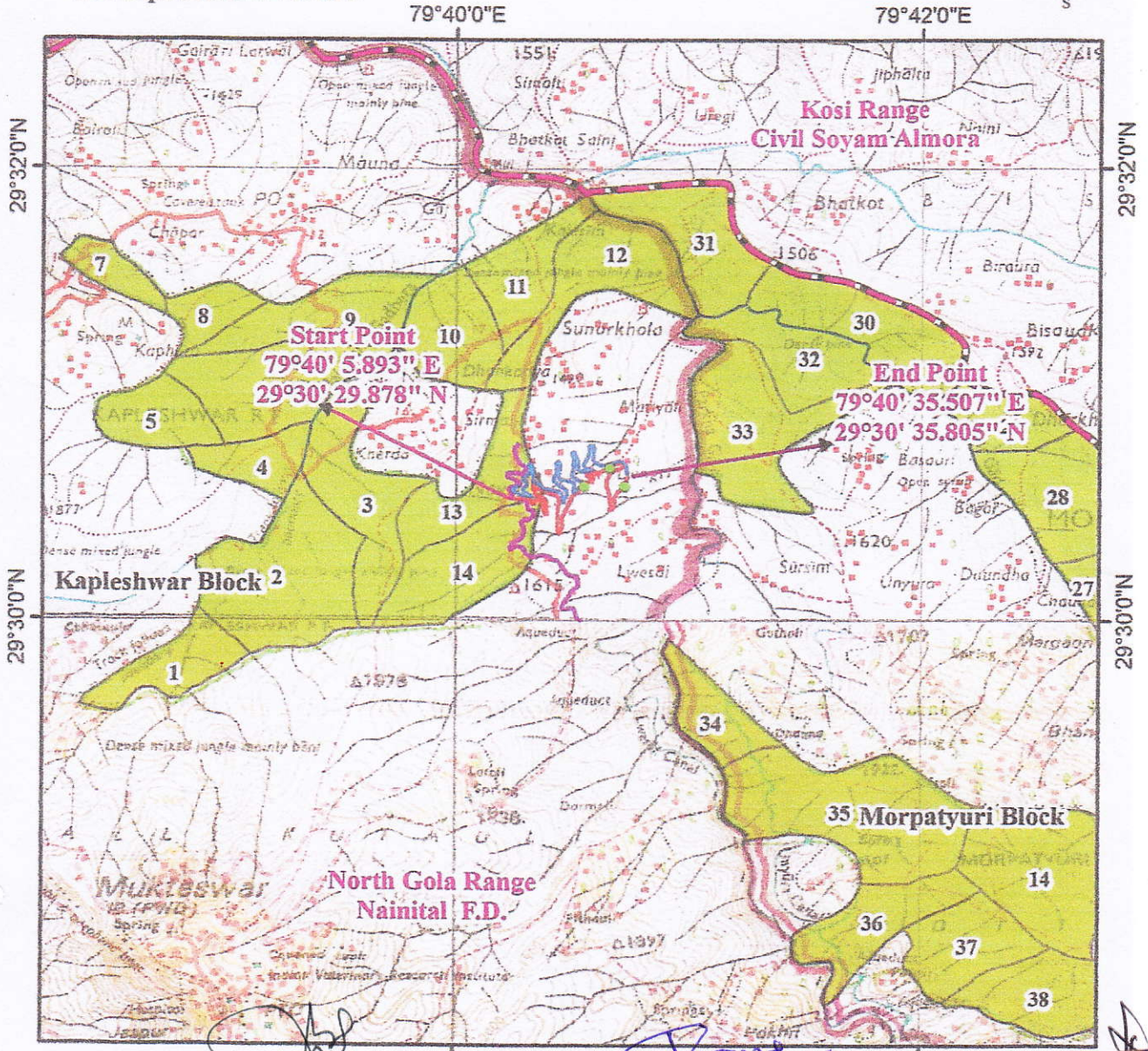
परियोजना का नाम :- जनपद नैनीताल के अन्तर्गत विकास खण्ड रामगढ़ में मौना-ल्वेशाल-कालापातल मोटर मार्ग के कि०मी० 10 से इंटर कॉलेज व प्रा० पा० होते हुए मटियाली से प्राचीन मंदिर कालीरौ तक मोटर मार्ग के निर्माण हेतु।

0 0.5 1Km

1 : 50,000



SOI Toposheet No. - 53 0/10



Legend

- Muck Dumping
- Proposed Road
- Alternate Road
- Existing Road
- Forest Range Boundary
- Forest Division Boundary
- Reserve Forest Boundary
- Reserve Forest Boundary

Ameen

रक्षात्मक अभियंता
निर्माण खण्ड, लो०नि० विभाग
नैनीताल.

अधिशाही अभियंता
निर्माण खण्ड, लो०नि० वि
नैनीताल,



वन क्षेत्राधिकारी
उत्तरी गोला वन क्षेत्र
नैनीताल वन प्रभाग, नैनीताल

उप प्रभागीय वन अधिकारी (नै०)
नैनीताल वन प्रभाग, नैनीताल.

उपजिलाधिकारी
नैनीताल

प्रभागीय वन अधिकारी
नैनीताल वन प्रभाग, नैनीताल

जिखाशिकाई
नैनीताल