

Add. AH. 2-4

DETAIL OF TOPOGRAPHY OF ALIGNMENT

प्रकार का नाम:- वित्तीय वर्ष 2016-17 में जनपद नैनीताल के विधान सभा क्षेत्र नैनीताल के विकास खण्ड रामगढ़ के
नथुवाखान-सुयालबाड़ मोटर मार्ग छिमी से मटेला होते हुए तोला भुमियों देव मन्दिर तक मोटर मार्ग का नव
संशोधन का कार्य। (लम्बाई:-4.000किमी०)

Point of Topography of the Road	Proposed Allignment No-1	Proposed Allignment No-2
Main features and Description of Allignment	This allignment started from Km25.0 of Nathuwakhan-Suyalbadi motor Road And Curunt Name From Km.67.0 of SH-62 motor Road and connects Villages Matela	This allignment started from Km 25.0 of Nathuwakhan-Suyalbadi motor Road And Curunt Name From Km.67.0 of SH 62 motor Road and connects Villages Matela
Length of the allignment from starting to terminal point	4.00 km	4.50 Km.
Geometries:- (i) Gradient in different stretches	1:20R, 1:22R, & 1:40R	1:18R/F, 1:30R,
(ii) Curves and hairpin bends etc.	06 No	8 No
Terrain soil conditions:- (i) Geology of area	Hjll area	Hill area
(ii) Road length passing through (a) Mountainous terrain (cross slop from 25% to 40 %)	2.500 Km.	1.00 Km.
(b) Mountainous terrain (cross slop from 40% to 70%)	1.000Km.	2.50 Km.
(c) Rocky stretches with indicating of length in loose stretches	0.500 Km.	1.50Km.
(d) Snow bound area	Nil	Nil
Nature of soil :- (i) Length of reaches with earth & boulder	2.500 Km.	2.000 Km.
(ii) length of reaches with medium rock/shale	1.000 Km.	1.800 Km.
(iii) Length of reaches with hard rock/shale	0.500 Km.	0.700 Km.
(iv) Length of reaches with homogeneous rock	Nil	Nil
Requirement of bridges: 1-Minor Bridges (a) Total No.	Nil	Nil
(b) Span	Nil	Nil
(c) Total water ways	2No.(2N0 Causeways incl.)	4No.(4N0 Causeways incl.)
2-Major Bridges (a) Total No.	Nil	Nil
(b) Span	N.A.	N.A.
(c) Total water ways	Nil	Nil
General elevation of the road (i) Indicating maximum and minimum height negotiated by main ascends and descends	1400-1550Mts.	1400-1550Mts.
(ii) Total No. of ascends & descends	01 & 01	01 & 01
(iii) Total No. of cliffs & gorges	Nil	Nil

Junior. Engineer

Assistant Engineer

Executive Engineer

विभाग नैनीताल
प्रति प्रमाणित

सहायक अभियन्ता
विभाग खण्ड, तालाब विभाग
नैनीताल

S.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	3.000 Km.	3.000 Km.
	(ii) irrigated	Nil	Nil
	(iii) Unirrigated	1.000 Km.	1.500 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 Km25.0 of Nathuwakhan-Suyalbadi motor Road And Curunt Name From Km.67.0 of SH-62 motor Road	This alignment connect to Km25.0 of Nathuwakhan-Suyalbadi motor Road And Curunt Name From Km.67.0 of SH-62 motor Road
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)1.000Km(b)46.00Km.	(a)2.500Km(b)45.00Km.
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°),Min.(2°)	Max.(30°),Min.(2°)
	(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.
	Length of land slides	Nil	Nil
	Length of unstable area	50 M	50 M
	Length of heavy clearing	Nil	Nil
	Length of marshy or flooded area	Nil	Nil

Junior. Engineer

Assistant Engineer

निदेशात्मक समिति
Executive Engineer
निर्माण विभाग
लेडी.एस

जोडा प्रति प्रमाणित

15/12/2017
निर्माण विभाग
लेडी.एस

Point of Topography of the Road	Alignment	Alignment
(a) Important villages, towns, market center and commercial center	Betalghat	Betalghat
(b) Length of portion with loose rocks villages following with		
(i) 1st Km. Of the alignment	50 Mtrs	50Mtrs.
(ii) 1st Km. to 5th Km. of alignment	Nil	Nil
Period required for construction	Two year	Two year
Vegetation	Grass and bushes, Chir wood trees.	Grass and bushes, Chir wood trees.
Political aspects	Nil	Nil
Strategic conditions	Crops, vegetable & Fruit etc	Crops, vegetable & Fruit etc
Economic and Industrial		
(I) Population secured by the alignment	App.200 Total Population	App.180 Total Population
Recreational potential and development of tourism	Yes	Yes
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.
Exploitation of forest wealth	Nil	Nil
Aspects of development of minor and major hydroelectric projects	Nil	Nil
Approximate cost of construction	207.20 Lac.	233.10 Lac.
(a) Merits	1. Development of area, connects all nearby villages of above 250 population in total. 2. Shortest route to Thesil & Distt Headquarter	1. Development of area, connects all nearby villages of above 250 population in total. 2. Shortest route to Thesil & Distt Headquarter
(b) Demerits	During construction damage some property, & vegetation.	During construction damage some property, & vegetation.
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,
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, <u>Recommended for approval.</u>	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.
Order of Superintending Engineer		

Junior Engineer

Assistant Engineer

निदेशाधीन कार्यकर्ता
निर्माण विभाग
नैनीताल.

कार्य प्रति प्रमाणित

निर्माण विभाग
नैनीताल