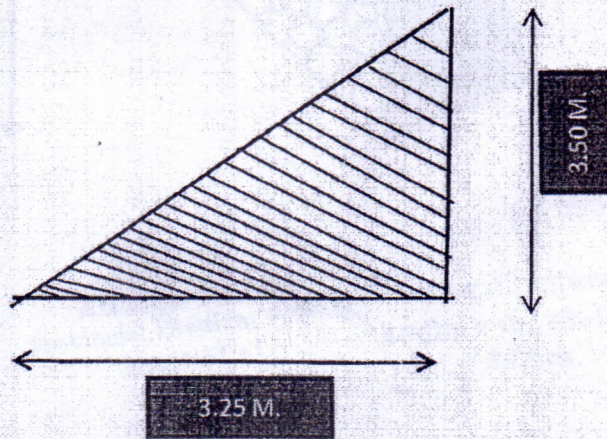


95
 Of Project:-C/O Road From Nainital Kaladhungi Motor Road To
 Goli-Khamari-Thapla-Jalalgaown-Dechori.

Muck Disposal Proposal(मलुवा निस्तारण प्रस्ताव)

Calculation of quantities of MUCK/Debris generated due to excavation of Hill Side Cutting

Item of work	Nos.	Length (in m)	Average Width (in m)	Average Height (in m)	Quantity
2	3	4		6	7
Excavation in hill side cutting (Average height of cutting considered 3.50 mtr)					
Item 1 (0.000-1.000)	1 x 1/2	1000.00	3.25	3.50	5687.50
Item 2 (1.000-2.000)	1 x 1/2	1000.00	3.25	4.00	6500.00
Item 3 (2.000-3.000)	1 x 1/2	1000.00	3.25	3.50	5687.50
Item 4 (3.000-4.000)	1 x 1/2	1000.00	3.25	4.00	6500.00
Item 5 (4.000-5.000)	1 x 1/2	1000.00	3.25	3.50	5687.50
Item 6 (5.000-6.000)	1 x 1/2	1000.00	3.25	3.50	5687.50
Item 7 (6.000-7.000)	1 x 1/2	1000.00	3.25	3.00	4875.00
				Total	40625.00
Add swell factor 30% of hill side cutting					12187.50
				G.Total	52812.50



Typical cross section of Hill side cutting

14/8/21
 Assistant Engineer
 Provincial Road Development
 NAINITAL.

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 भारतीय गण्ड लो. वि.
 नैनीताल

वन क्षेत्राधिकारी
 कालाढुंगी वन क्षेत्र
 रामनगर वन प्रभाग, रामनगर

वन प्रभाग, नैनीताल

रामनगर वन प्रभाग, रामनगर

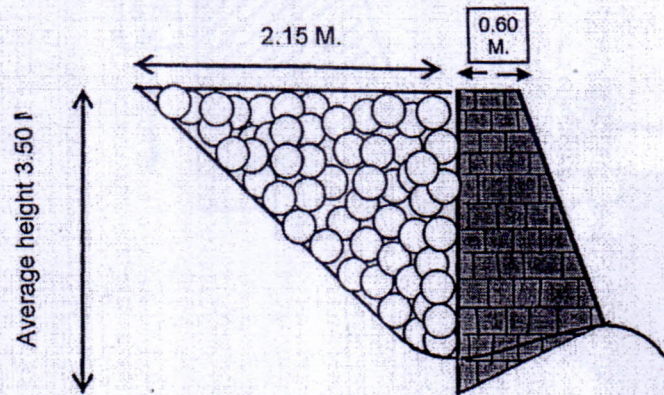
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 मनोरा वन क्षेत्र
 नैनीताल वन प्रभाग

Quantity of Muck/Debris to be used as given below:-

Filling of material in the back of Retaining wall is taken as approximately 600 M. length/Km and height varied from 3 to 4 m (Average 3.5 mtr) along the length of the road. The quantity of the material retain behind it is as below. (Shown in Diagram below)

Km 1 (0.000-1.000)	1 x 1/2	600.00	2.15	3.50	2257.50
Km 2 (1.000-2.000)	1 x 1/2	600.00	2.15	3.50	2257.50
Km 3 (2.000-3.000)	1 x 1/2	600.00	2.15	3.50	2257.50
Km 4 (3.000-4.000)	1 x 1/2	600.00	2.15	3.50	2257.50
Km 5 (4.000-5.000)	1 x 1/2	600.00	2.15	3.50	2257.50
Km 6 (5.000-6.000)	1 x 1/2	600.00	2.15	3.50	2257.50
Km 7 (6.000-7.000)	1 x 1/2	600.00	2.15	3.50	2257.50
Total					15802.50

Filling of material behind the retaining wall



Assistant Engineer
Provincial Division P.W.D.
NAINITAL

अधिकारी अभियन्ता
प्रान्तीय एण्ड, लो.नि.वि.
नैनीताल.

वन क्षेत्राधिकारी
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रामनगर वन प्रभाग, रामनगर

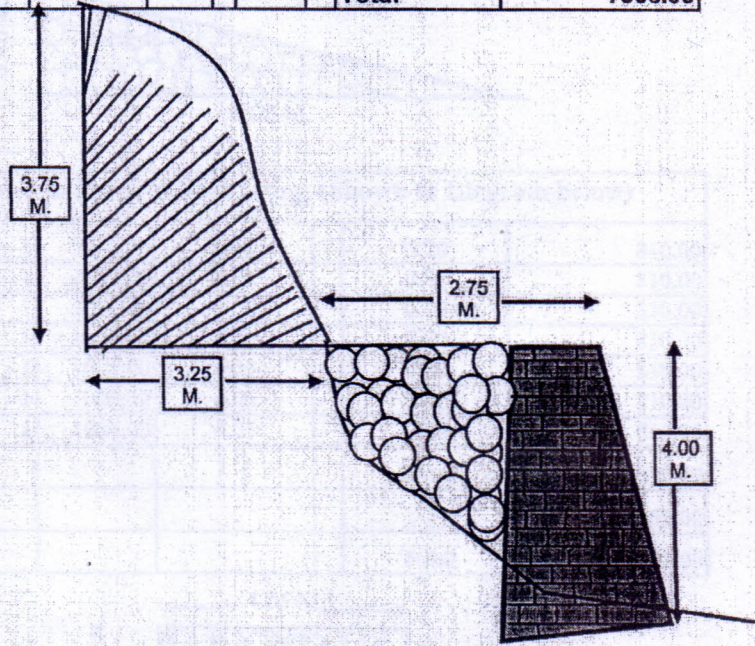
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प्रान्तीय वन विभाग, नैनीताल

अधिकारी अभियन्ता
प्रान्तीय वन विभाग, नैनीताल

Construction of Retaining wall in approximately 600 M. Length/Km and height varied from 3 to 5 m (Average 4 m) along the length of the road. The quantity of excavated materials consumed in construction of retaining walls is as below. (Shown in Diagram below)

Sl. No. 1 (0.000-1.000)	1 x 1/2	600.00	0.60	+	1.93	/2	4.00	3036.00
Sl. No. 2 (1.000-2.000)	1 x 1/2	600.00	0.60	+	1.93	/2	4.00	720.00
Sl. No. 3 (2.000-3.000)	1 x 1/2	600.00	0.60	+	1.93	/2	4.00	720.00
Sl. No. 4 (3.000-4.000)	1 x 1/2	600.00	0.60	+	1.93	/2	4.00	720.00
Sl. No. 5 (4.000-5.000)	1 x 1/2	600.00	0.60	+	1.93	/2	4.00	720.00
Sl. No. 6 (5.000-6.000)	1 x 1/2	600.00	0.60	+	1.93	/2	4.00	720.00
Sl. No. 7 (6.000-7.000)	1 x 1/2	600.00	0.60	+	1.93	/2	4.00	720.00
Total								7356.00



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Assistant Engineer
Provincial Division, P.W.D.
NAINITAL.

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कालादुंगी व. क्षेत्र
रामनगर वन प्रभाग, रामनगर.

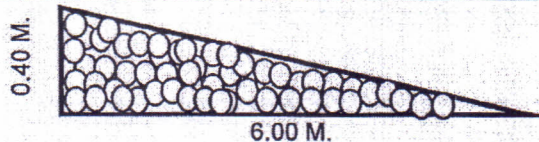
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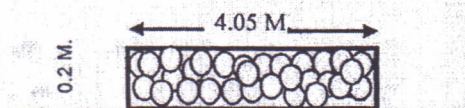
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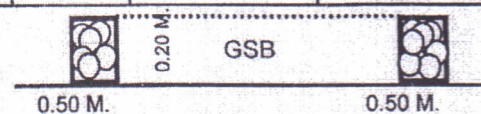
Km. 1 (0.000-1.000)	1 x	1/2	200.00		6.00	0.40	240.00
Km. 2 (1.000-2.000)	1 x	1/2	200.00		6.00	0.40	240.00
Km. 3 (2.000-3.000)	1 x	1/2	200.00		6.00	0.40	240.00
Km. 4 (3.000-4.000)	1 x	1/2	200.00		6.00	0.40	240.00
Km. 5 (4.000-5.000)	1 x	1/2	200.00		6.00	0.40	240.00
Km. 6 (5.000-6.000)	1 x	1/2	200.00		6.00	0.40	240.00
Km. 7 (6.000-7.000)	1 x	1/2	200.00		6.00	0.40	240.00
						Total	1680.00



Bin. 1 (0.000-1.000)	1 x	1	1000.00	4.05		0.20	810.00
Bin. 2 (1.000-2.000)	1 x	1	1000.00	4.05		0.20	810.00
Bin. 3 (2.000-3.000)	1 x	1	1000.00	4.05		0.20	810.00
Bin. 4 (3.000-4.000)	1 x	1	1000.00	4.05		0.20	810.00
Bin. 5 (4.000-5.000)	1 x	1	1000.00	4.05		0.20	810.00
Bin. 6 (5.000-6.000)	1 x	1	1000.00	4.05		0.20	810.00
Bin. 7 (6.000-7.000)	1 x	1	1000.00	4.05		0.20	810.00
						Total	5670.00
Add 10% extra for curves							567.00
						Total	6237.00



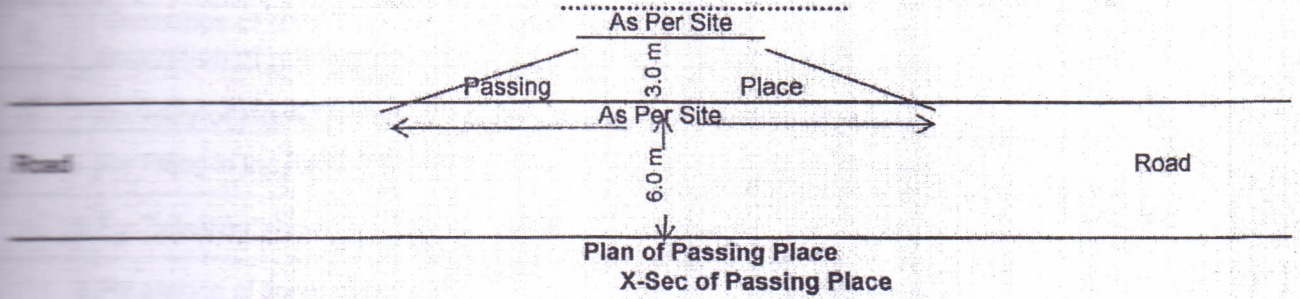
Sl. 1 (1.000-1.000)	1 x	1	1000.00	1.00	0.20	200.00
Sl. 2 (1.000-2.000)	1 x	1	1000.00	1.00	0.20	200.00
Sl. 3 (2.000-3.000)	1 x	1	1000.00	1.00	0.20	200.00
Sl. 4 (3.000-4.000)	1 x	1	1000.00	1.00	0.20	200.00
Sl. 5 (4.000-5.000)	1 x	1	1000.00	1.00	0.20	200.00
Sl. 6 (5.000-6.000)	1 x	1	1000.00	1.00	0.20	200.00
Sl. 7 (6.000-7.000)	1 x	1	1000.00	1.00	0.20	200.00
					Total	1400.00



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 Analysis of soil per
 Probation Medical P.W.D.
 10/1/1941
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 वन क्षेत्राधिकारी
 कालाहूगी व न
 राम नगर प्रभाग, रामनगर

Consumption of excavated material used in passing places (average 4 No per Km and average height cutting for passing place 3.0 m) along the road as given below:- (Shown in plan Diagram below)

As Per Details Attached	Total	20370.00
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Consumption of side cutting material used for construction of Road Total B (I+II+III+IV+V+VI)	52845.50
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Manish J.C.

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Assistant Engineer
Principal Division, P.W.D.
MAINITAL.

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प्रान्तीय सड़क लो० नि० वि०
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कालादुंगी वन क्षेत्र
रामनगर वन प्रभाग, रामनगर

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प्रमाणित क्षेत्राधिकारी
संजीव वन प्रभाग, संजीव वन प्रभाग, रामनगर

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प्रमाणित वनाधिकारी

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वन क्षेत्राधिकारी
मनोरा वन क्षेत्र
मैतीताल वन प्रभाग

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SUMMARY OF MUCK DISPOSAL PLAN

Name Of Project:-C/O Road From Nainital Kaladhungi Motor Road To Mangoli-Khamari-Thapla-Jalalgaown-Dechori.

S.No.	Item of Work	Quantity	Unit	Remarks
A.	Quantities of MUCK/Debris genreated due to excavation of Hill Side Cutting	52812.5	Cum	As per detail attached
B.	Quantity of Muck/Debries to be used during construction of road			
1	For Filling in the back of R/Wall	15802.50	Cum	As per detail attached
2	For Retaining Walls	7356.00	Cum	As per detail attached
3	For Making of super elevation	1680.00	Cum	As per detail attached
4	For laying of GSB (Granular sub base/soling)	6237.00	Cum	As per detail attached
5	For Patri Filling	1400.00	Cum	As per detail attached
6	For Making of Passing Places	20370.00	Cum	As per detail attached
	Total B	52845.50	Cum	

S.No.	Quantities of MUCK/Debris genreated due to excavation of Hill Side Cutting	Quantity of Muck/Debries to be used during construction of road	Balance Qty (A-B)
1	52812.5	52845.50	-33.00 Say Nil

Here quantity of muck required for construction of road= 52845.50 cum
Which is much grater then quantity of muck genrated due to hill side cutting =52812.50 cum
Therefore extra land for muck disposal is not required.

NOTE:- Here road is all ready existing it's width is approxmate 4.00 to 6.00 mtr threfore hill side cutting is required only for the improvement of bends therefore muck genrated is very less.

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Assistant Engineer
Provincial Division P.W.D.
NAINITAL.

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अधिकासी अभियन्ता
प्रान्तीय रण्ड, लोनि वि०
नैनीताल.
रामनगर वन प्रभाग, रामनगर

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प्रभावीय वनाधिकारी
रामनगर वन प्रभाग, नैनीताल

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रामनगर वन प्रभाग, नैनीताल

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Name Of Project:-C/O Road From Nainital Kaladhungi Motor Road To Mangoli-Khamari-Thapla-Jalgaown-Dechori.

Location and Qty. Of Debries in passing places/Disposal Yard

SN	CH.	Size			Capacity in CUM	Latitute N	Longitute E
1	0/125	45.00	3.00	3.50	472.50	29° 22' 19.80	79° 22' 16.62
2	0/250	30.00	3.00	3.50	315.00	29° 22.387	79° 22.354
3	0/375	45.00	3.00	3.50	472.50	29° 22.448	79° 22.386
4	0/500	30.00	3.00	3.50	315.00	29° 22.498	79° 22.413
5	0/750	45.00	3.00	3.50	472.50	29° 22.594	79° 22.416
6	0/875	30.00	3.00	3.50	315.00	29° 22.609	79° 22.432
7	0/1000	45.00	3.00	3.50	472.50	29° 22.614	79° 22.490
8	1/125	30.00	3.00	3.50	315.00	29° 22.675	79° 22.492
9	1/250	45.00	3.00	3.50	472.50	29° 22.719	79° 22.504
10	1/375	30.00	3.00	3.50	315.00	29° 22.714	79° 22.467
11	1/500	45.00	3.00	3.50	472.50	29° 22.728	79° 22.419
12	1/750	30.00	3.00	3.50	315.00	29° 22.813	79° 22.415
13	1/875	45.00	3.00	3.50	472.50	29° 22.846	79° 22.452
14	1/1000	30.00	3.00	3.50	315.00	29° 22.838	79° 22.271
15	2/125	45.00	3.00	3.50	472.50	29° 22.848	79° 22.204
16	2/250	45.00	3.00	3.50	472.50	29° 22.872	79° 22.158
17	2/375	30.00	3.00	3.50	315.00	29° 22.915	79° 22.102
18	2/500	45.00	3.00	3.50	472.50	29° 22.942	79° 22.116
19	2/750	30.00	3.00	3.50	315.00	29° 23.038	79° 22.113
20	2/875	45.00	3.00	3.50	472.50	29° 23.095	79° 22.064
21	2/1000	30.00	3.00	3.50	315.00	29° 23.130	79° 22.015
22	3/125	45.00	3.00	3.50	472.50	29° 23.183	79° 21.932
23	3/250	30.00	3.00	3.50	315.00	29° 23.243	79° 21.951
24	3/375	45.00	3.00	3.50	472.50	29° 23.298	79° 21.920
25	3/500	30.00	3.00	3.50	315.00	29° 23.600	79° 21.903
26	3/750	45.00	3.00	3.50	472.50	29° 23.343	79° 21.793
27	3/875	30.00	3.00	3.50	315.00	29° 23.383	79° 21.752
28	3/1000	45.00	3.00	3.50	472.50	29° 23.428	79° 21.727
29	4/125	30.00	3.00	3.50	315.00	29° 23.498	79° 21.724
30	4/250	40.00	3.00	3.50	420.00	29° 23.573	79° 21.741
31	4/375	30.00	3.00	3.50	315.00	29° 23.616	79° 21.784
32	4/500	30.00	3.00	3.50	315.00	29° 23.632	79° 21.789
33	4/750	50.00	3.00	3.50	525.00	29° 23.530	79° 21.751
34	4/875	30.00	3.00	3.50	315.00	29° 23.507	79° 21.767
35	4/1000	50.00	3.00	3.50	525.00	29° 23.473	79° 21.787
36	5/125	40.00	3.00	3.50	420.00	29° 23.405	79° 21.978
37	5/250	50.00	3.00	3.50	525.00	29° 23.423	79° 21.876
38	5/375	40.00	3.00	3.50	420.00	29° 23.414	79° 21.863
39	5/500	50.00	3.00	3.50	525.00	29° 23.367	79° 21.161
40	5/750	40.00	3.00	3.50	420.00	29° 23.410	79° 21.163
41	5/875	50.00	3.00	3.50	525.00	29° 23.418	79° 21.087
42	5/1000	50.00	3.00	3.50	525.00	29° 23.434	79° 21.062
43	6/125	40.00	3.00	3.50	420.00	29° 23.460	79° 21.041
44	6/250	50.00	3.00	3.50	525.00	29° 23.459	79° 21.007

प्रमाणित वनाधिकारी
नैनीताल वन प्रभाग, चंद

प्रमाणित वनाधिकारी
नैनीताल वन प्रभाग, रामनगर

प्रमाणित वनाधिकारी
नैनीताल वन प्रभाग, रामनगर

Manish J.E
Provincial Engineer, W.D.

अधिसूची अधिनियम
नैनीताल वन प्रभाग, रामनगर

45	6/375	40.00	3.00	3.50	420.00	29° 23' 47.8	79° 21' 9.50
46	6/500	40.00	3.00	3.50	420.00	29° 23' 42.90	79° 21' 39.72
47	6/750	40.00	3.00	3.50	420.00	29° 23' 20.16	79° 22' 8.10
48	6/875	45.00	3.00	3.50	472.50	29° 23' 6.18	79° 21' 9.70
49	6/1000	40.00	3.00	3.50	420.00	29° 23' 49.50	79° 21' 50.46
Total					20370.00		
Say					20370.00		Cum

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J.E.

[Signature]
Assistant Engineer
Provincial Division, P.W.D.
NAINITAL.

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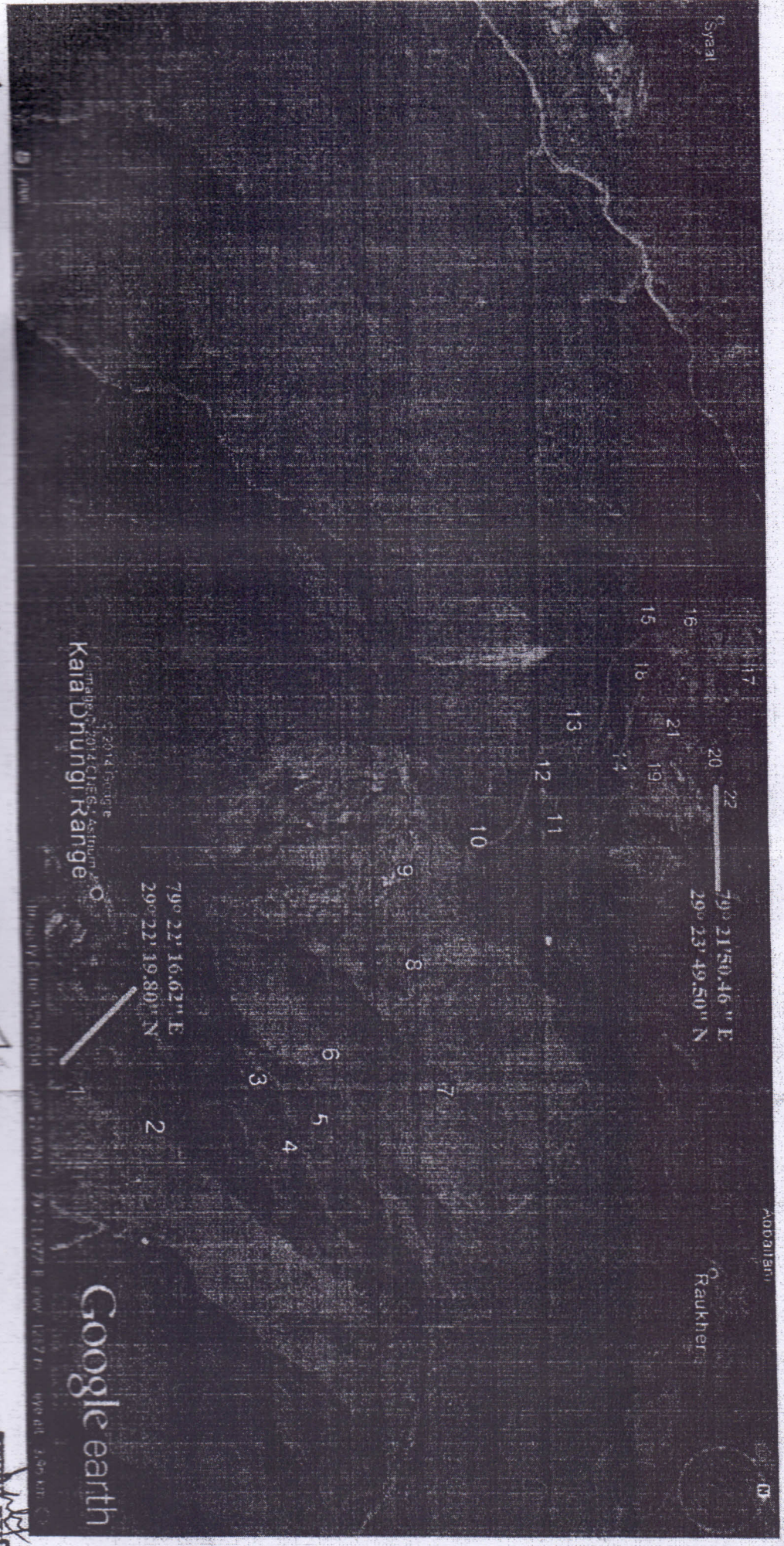
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नैनीताल वन प्रभाग, नैनीताल.

वा.वा.

Name of Project :- C/O Road From Nainital Kadalhungi Motor Road To
Mangoli - Khamri - Thapla - Talagaon - Dechori



Signature
for the project

Project
No.

Project
No.

अभिजात अभिजात
मार्ग का नाम/कोड/दिनांक

अभिजात
मार्ग का नाम/कोड/दिनांक

अभिजात
मार्ग का नाम/कोड/दिनांक