

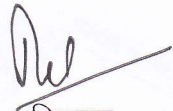
प्रारूप-49

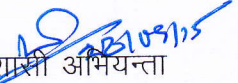
परियोजना विवरण :-

जनपद टिहरी गढ़वाल के अन्तर्गत लिंगवाणा से सौड़ रानीताल मोल्ठा चक मोटर मार्ग का नव निर्माण। (7 मी० चौड़ाई में वृक्षों की गणना)

मलवा निस्तारण योजना इस मार्गदर्शिका के परिशिष्ट में दिये माडल अनुसार तैयार की जानी है।

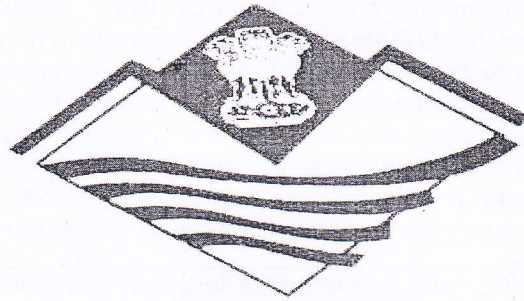

कनिष्ठ अभियन्ता
अ०ख० लो०नि०वि० श्रीनगर
मु० कीर्तिनगर।


सहायक अभियन्ता
अ०ख० लो०नि०वि० श्रीनगर
मु० कीर्तिनगर।


अधिशारी अभियन्ता
अ०ख० लो०नि०वि० श्रीनगर
मु० कीर्तिनगर।

उत्तराखण्ड शासन

लोक निर्माण विभाग



उत्तराखण्ड सरकार

8वां वृत्त, लोक निर्माण विभाग
नई टिहरी

अस्थाई खण्ड, लो०नि०वि० श्रीनगर
मुख्यालय—कीर्तिनगर

मलवा निस्तारण प्रस्ताव

Name Of Work:-

राज्य योजना के अन्तर्गत लिंगवाणा से सौडू रानीताल मोल्ठा मोटर मार्ग
का नव निर्माण। (वास्तविक लम्बाई 4.350 कि०मी०)

अनुमानित लागत

Rs. 4.20

लाख

96

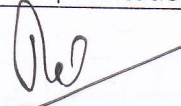
Analysis of Rate

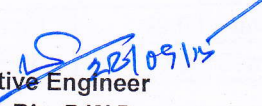
Name Of Work: राज्य योजना के अन्तर्गत लिंगवाणा से सौदू रानीताल मोल्डा मोटर मार्ग का नव निर्माण। (वास्तविक लम्बाई 4.350 कि०मी०)

Block: Devprayag

SN	Description	Rate	Unit
66837 11-1-1-1	Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material. Excavation in foundation for retaining & brest walls in all types of soils and rocks including lead, lift and disposal of surplus material as per direction of engineer-in-charge	Cu.m	Rs. 193.00
72239 16-9-2-1	Providing and laying of wire crates 3.00x1.50x1.50 in size with a 10 gauge BWG GI wire conforming to IS: 280 & IS:4826 in 150mm x 150mm mesh laid with stone boulders weighing not less than 25 kg each.(As per PWD Uttarakhand Specification)	Cu.m	Rs. 1,088.70


A.E.

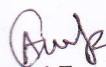

Assistant Engineer
Temp. Div. P.W.D.
Kirtinagar


Executive Engineer
Temp. Div. P.W.D.
Kirtinagar

DETAILS OF MEASUREMENT

का नाम :- राज्य योजना के अन्तर्गत लिंगवाणा से सौड़ रानीताल मोल्ठा मोटर मार्ग का नव निर्माण।
(वास्तविक लम्बाई 4.350 कि०मी०)

Item of work	No	L	W/B	H/D	Quantity
2	3	4	5	6	7
Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material. Excavation in foundation for retaining & breast walls in all types of soils and rocks including lead, lift and disposal of surplus material as per direction of engineer-in-charge					
Site No. 1 (K.M. 3)					
(1st part)	1x 1/2	22.00	1.50	0.75	12.38 Cum.
(2nd part)	1x 1/2	22.00	1.50	0.75	12.38 Cum.
Site No. 2 (K.M. 4)	1x 1/2	21.00	1.50	0.75	11.81 Cum.
Site No. 3 (K.M. 5)					
(1st part)	1x 1/2	21.00	1.50	0.75	11.81 Cum.
(2nd part)	1x 1/2	21.00	1.50	0.75	11.81 Cum.
				Total	60.19 Cum.
Providing and laying of wire crates 3.00x1.50x1.50 in size with a 10 gauge BWG GI wire conforming to IS: 280 & IS-4826 in 150mm x 150mm mesh laid with stone boulders weighing not less than 25 kg each.(As per PWD Uttarakhand Specification)					
Site No. 1 (K.M. 2)					
Quantity for Wire Crates in 2 layer (1st part)	1x 2	22.00	1.50	1.50	99.00 Cum.
Quantity for Wire Crates in 2 layer (2nd part)	1x 2	22.00	1.50	1.50	99.00 Cum.
Site No. 2 (K.M. 3)					
Quantity for Wire Crates in 1 layers	1x 1	21.00	1.50	1.50	47.25 Cum.
Site No. 3 (K.M. 5)					
Quantity for Wire Crates in 1 layers (1st part)	1x 1	21.00	1.50	1.50	47.25 Cum.
Quantity for Wire Crates in 1 layers (2nd part)	1x 1	21.00	1.50	1.50	47.25 Cum.
				Total	339.75 Cum.
Required area of Nap Land					
Site No. 1 (K.M. 3)					
Area of Nap Land for Dumping-1 Part-1	1x 1	22.00	10.00	-	220.00 Sqm
Area of Nap Land for Dumping-1 Part-2	1x 1	22.00	10.00	-	220.00 Sqm
Site No. 2 (K.M. 4)					
Area of Nap Land for Dumping-2	1x 1	21.00	9.00	-	189.00 Sqm
Site No. 3 (K.M. 5)					
Area of Nap Land for Dumping-3 Part-1	1x 1	21.00	10.00	-	210.00 Sqm
Area of Nap Land for Dumping-3 Part-2	1x 1	21.00	10.00	-	210.00 Sqm
				Total	1049.00 Sqm
Total Area of Naap Land					
10000 Sqm = One Hect.					0.105 Hec
Area of dumping yard					0.10 Hec


J.E.

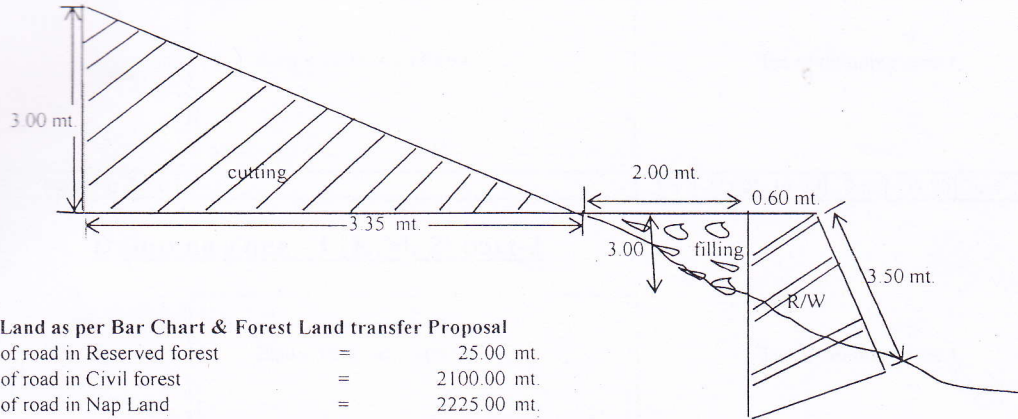

Assistant Engineer
Temp. Div. P.W.D.
Kirtinagar

DETAILS OF MEASUREMENT

कार्य का नाम :- राज्य योजना के अन्तर्गत लिंगवाणा से सौड़ रानीताल मोल्डा मोटर मार्ग का नव निर्माण। (वास्तविक लम्बाई 4.350 कि०मी०)

Total quantity of Muck generated from road cutting

Typical X-Section of Road



Forest Land as per Bar Chart & Forest Land transfer Proposal

A	Length of road in Reserved forest	=	25.00 mt.
B	Length of road in Civil forest	=	2100.00 mt.
C	Length of road in Nap Land	=	2225.00 mt.
	Total Length	=	4350.00 mt.
	Total Forest Length	=	2125.00 mt.

Calculation of Muck As Above Length

1	Quantity of muck generated from cutting	1	x	1/2	2125.00	3.35	3.00	10678.13	Cum.
2	Quantity of muck from scupper & catch pit								
A	Quantity of muck from scupper in civil land	4.35	x	3.00	3.35	3.00	3.00	393.46	Cum.
B	Quantity of muck from catch pit in civil land	4.35	x	3.00	(1.5x1.5+2.1x2.1)/2		2.50	133.20	Cum.
	Quantity of muck from SI No 1. & 2 as above.						G-Total	11204.79	Cum.
3	Taking E.B, O.R & H.R @ 50%, 20%, & 30% respectively								
i.	30% E.B	11204.79	x	0.30	=			3361.44	Cum.
ii.	40% O.R.	11204.79	x	0.40	=			4481.92	Cum.
iii.	30% H.R.	11204.79	x	0.30	=			3361.44	Cum.
					Total =			11204.80	Cum
4	Quantity of muck as swell factor of (E.B. only)	1.25	x	3361.44				4201.80	Cum
5	Quantity of total muck from point ii., iii., & 4	Sl. No (i + ii + 4) =						12045.16	Cum
	Quantity of total muck Generated				Say			12045.16	Cum

Disposal & use of material

1	Quantity used for super elevation, grade improvement & patrie filling of road @ 10%	= (12045.16 x 10/100) =					1204.52	Cum
2	Quantity erodes by wind and water @ 20% of (E.B. only)	= (4201.80 x 20/100) =					840.36	Cum
3	Quantity of muck disposed in filling (retained by R/W) in 40% length	= (2125.00 x 2.00 x 3.00)/2 x 0.40					2550.00	Cum
4	Quantity of stones used Scuppers and catch pit @ 57.00 cum. Per no.	= 57.00 x 8.00 x 4.35					1983.60	Cum
5	Quantity of stones used in R/W in 40% length	= 2125 x (0.60+1.77)/2 x 3.50 x 0.40					3525.38	Cum
6	Quantity of stones used in Wire Crates for 3 dumping	As per details					339.75	Cum
	Total quantity of muck used at site including weathering by nature						10443.61	Cum

Quantity of muck retained = 12045.16 - 10443.61 = 1678.05 Cum.

निस्तारित की जाने वाली मलवे की मात्रा = **1678.05 Cum** अथवा **1678.00 Cum**

इस प्रकार से उत्सर्जित मलवे का लगभग सम्पूर्ण उपयोग सतह की रिग्रेडिंग एवं दीवार निर्माण आदि के प्रयोग में तथा सुपर एलीवेशन व पटरी फिलिंग आदि में हो जायेगा जिससे स्थानीय वनस्पति को क्षति नहीं पहुंचेगी एवं भू-क्षरण की सम्भावना भी नहीं होगी।

उत्सर्जित मलवे के निस्तारण हेतु मार्ग पर ऐसी जगह चिह्नित किये जा रहे हैं जिससे वन सम्पदा आदि की क्षति नहीं होगी। निस्तारित किये जाने वाले मलवे का प्रस्ताव सलग्न लाइन डायग्राम में दर्शाया जा रहा है।

(Signature)
J.E.

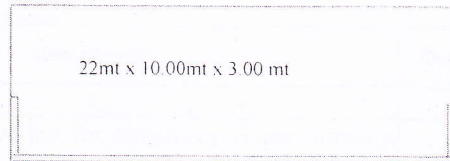
(Signature)
Assistant Engineer
Temp. Div. P.W.D.
Kirtinagar

(Signature)
Executive Engineer
Temp. Div. P.W.D.
Kirtinagar

DETAILS OF MEASUREMENT

कार्य का नाम :- राज्य योजना के अन्तर्गत लिंगवाणा से सौड़ रानीताल मोल्ठा मोटर मार्ग का नव निर्माण। (वास्तविक लम्बाई 4.350 कि०मी०)

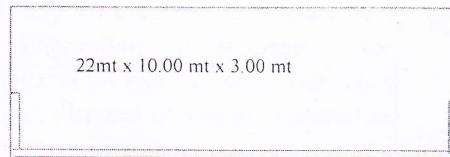
Dumping Zone - 1 (K.M. 2) part-1



Plan of dumping zone 1

Capacity Of Dumping Zone No. 1	=	3/4	22.00	10.00	3.00	495.00	Cum
--------------------------------	---	-----	-------	-------	------	--------	-----

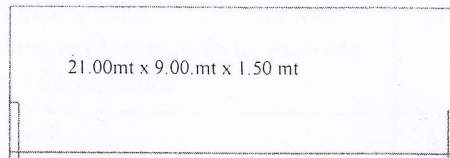
Dumping Zone - 1 (K.M. 2) part-2



Plan of dumping zone 1

Capacity Of Dumping Zone No. 1	=	3/4	22.00	10.00	3.00	495.00	Cum
--------------------------------	---	-----	-------	-------	------	--------	-----

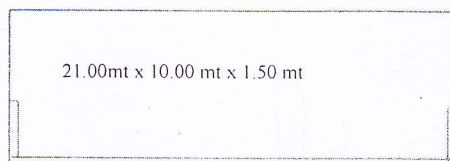
Dumping Zone - 2 (K.M. 3)



Plan of dumping zone 2

Capacity Of Dumping Zone No. 2	=	3/4	21.00	9.00	1.50	212.63	Cum
--------------------------------	---	-----	-------	------	------	--------	-----

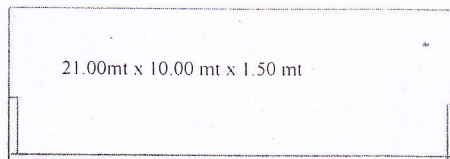
Dumping Zone - 3 (K.M. 5) part-1



Plan of dumping zone 3

Capacity Of Dumping Zone No. 3	=	3/4	21.00	10.00	1.50	236.25	Cum
--------------------------------	---	-----	-------	-------	------	--------	-----

Dumping Zone - 3 (K.M. 5) part-2



Plan of dumping zone 3

Capacity Of Dumping Zone No. 3	=	3/4	21.00	10.00	1.50	236.25	Cum
--------------------------------	---	-----	-------	-------	------	--------	-----

Total quantity of muck retained by Dumping zone 1 (part 1 & part 2),
Dumping zone 2 & Dumping zone 3

= 1675.13 Cum.

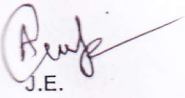
[Signature]
J.E.

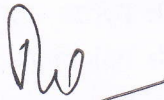
[Signature]
Assistant Engineer
Temp. Div. P.W.D.
Kirtinagar

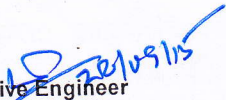
BILL OF QUANTITY

कार्य का नाम :- राज्य योजना के अन्तर्गत नैखरी से मोल्डा मोटर मार्ग का नव निर्माण। (वास्तविक लम्बाई 4.100 कि०मी०)

Sl. No.	Item of work	Quantity	Unit	Rate	Per	Amount
1	2	3	4	5	6	7
1	Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material. Excavation in foundation for retaining & brest walls in all types of soils and rocks including lead, lift and disposal of surplus material as per direction of engineer-in-charge	60.19	Cum.	193.00	Cum.	11616.19
2	Providing and laying of wire crates 3.00x1.50x1.50 in size with a 10 gauge BWG GI wire conforming to IS: 280 & IS:4826 in 150mm x 150mm mesh laid with stone boulders weighing not less than 25 kg each.(As per PWD Uttarakhand Specification)	339.75	Cum.	1088.70	Cum.	369885.83
4	Total Area of Naap Land	0.105	Hec	370000.00	Hec	38813.00
				Total		420315.01


J.E.

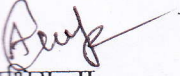

Assistant Engineer
Prov. Div. P.W.D.
New Tehri

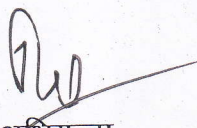

Executive Engineer
Prov. Div. P.W.D.
New Tehri

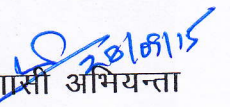
आगणन की लागत का सारांश

Name of Work :- राज्य योजना के अन्तर्गत लिंगवाणा से सौडू रानीताल मोल्ठा मोटर मार्ग का नव निर्माण। (वास्तविक लम्बाई 4.350 कि०मी०)

क्रम संख्या	विवरण	लागत (लाख में)
1	राज्य योजना के अन्तर्गत लिंगवाणा से सौडू रानीताल मोल्ठा मोटर मार्ग का नव निर्माण। (वास्तविक लम्बाई 4.350 कि०मी०)	Rs.420,315.01
	योग	Rs.420,315.01
	अर्थात् लाख रू० में	Rs.4.20


निष्ठ अभियन्ता
अ०ख०, लो०नि०वि० श्रीनगर
मुख्यालय-कीर्तिनगर


सहायक अभियन्ता
अ०ख०, लो०नि०वि० श्रीनगर
मुख्यालय-कीर्तिनगर


अधिसाक्षी अभियन्ता
अ०ख०, लो०नि०वि० श्रीनगर
मुख्यालय-कीर्तिनगर

Photos Of Dumping Zone

कार्य का नाम :- राज्य योजना के अंतर्गत लिंगवाणा से सौडू रानीताल से मोल्टा मोटर मार्ग का निर्माण।



Amul
SG

Amul

सहायक अभियन्ता-
अस्थाई खण्ड लो.नि.वि.
खीनगर-मु. कीर्तिनगर वि.मु.
खीनगर-मु. कीर्तिनगर वि.मु.

IS
28/09/15

30°19'30"N

30°18'0"N

30°16'30"N

30°15'0"N