

परियोजना विवरण :-

राज्य योजना के अन्तर्गत जनपद टिहरी गढ़वाल के विकास खण्ड कीर्तिनगर में लोस्तु-घण्डियाल से होन्डू रिंगोली मोटर मार्ग का नव निर्माण (1.650 कि०मी०)

मलवा निस्तारण योजना इस मार्गदर्शिका के परिशिष्ट में दिये माडल अनुसार तैयार कर पृष्ठ संख्या 84-99 पर संलग्न है।

Pri.
JE

HL
AE

ह०/-

प्रयोक्ता एजेन्सी।


Executive Engineer
T.D. P.W.D. Srinagar
H.Q. Kirtinagar

Analysis of Rate

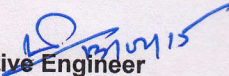
Name Of Work: जनपद टिहरी गढ़वाल के विकासखण्ड कीर्तिनगर के अन्तर्गत
लोस्तु-घण्डियाल-हौन्दू से रिंगोली मोटर मार्ग का निर्माण। (लम्बाई 1.650
किमी०)

Block: Kirtinagar

SN	Description	Rate	Unit
75272 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 & breast 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. 228.60
75486 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 weighting not less than 25 kg each.(As per PWD Uttarakhand Specification)	Cu.m	Rs. 1,203.90


J.E.


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


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

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

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

SPECIFICATIONS

Name Of Work:- जनपद टिहरी गढ़वाल के विकासखण्ड कीर्तिनगर के अन्तर्गत लोस्तु-घण्डियाल-हौन्दू से रिंगोली मोटर मार्ग का निर्माण। (लम्बाई 1.650 किमी०)

ALL THE WORKS SHALL BE EXECUTED STRICTLY AS PER THE APPROVED SPECIFICATIONS OF UTTARANCHAL PUBLIC WORKS DEPARTMENT AND ISSUED CIRCULARS / DIRECTIONS BY CHIEF ENGINEER

Assistant Engineer
Temp. Div. PWD Srinagar
Headquarter: Kirtinagar

Executive Engineer
Temp. Div. PWD Srinagar
Headquarter: Kirtinagar

DETAILS OF MEASUREMENT


Name of work-

जनपद टिहरी गढ़वाल के विकासखण्ड कीर्तिनगर के अन्तर्गत
लोस्तु-घण्डियाल-हौन्दू से रिंगोली मोटर मार्ग का निर्माण। (लम्बाई 1.
650 किमी०)

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Detail of Civil Land for Muck Disposal

S.No.	Km.	Chainage	Length (mt.)
1	Km. 1	0.000 to 0.050	50.00
2	Km. 1 - Km 2	0.250 to 1.300	1050.00
Total			1100.00



Junior Engineer



Assistant Engineer

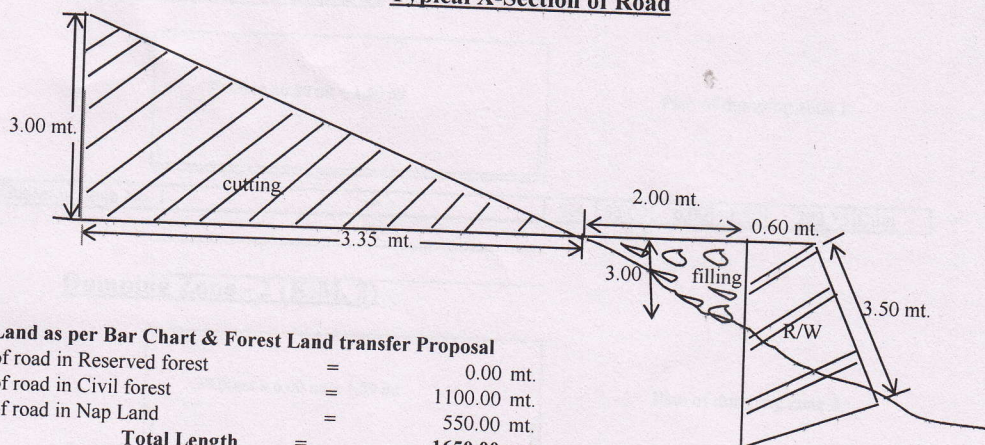
Ty. Division Kirtinagar

DETAILS OF MEASUREMENT

Name of work- जनपद टिहरी गढ़वाल के विकासखण्ड कीर्तिनगर के अन्तर्गत लोस्तु-घण्डियाल-हौन्दू से रिंगोली मोटर मार्ग का निर्माण। (लम्बाई 1.650 किमी०)

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	=	0.00 mt.
B	Length of road in Civil forest	=	1100.00 mt.
	Length of road in Nap Land	=	550.00 mt.
	Total Length	=	1650.00 mt.

Calculation of Muck As Above Length

1	Quantity of muck generated from cutting	1	x	1/2	1100.00	3.35	3.00	5527.50	Cum.
2	Quantity of muck from scupper & catch pit								
A	Quantity of muck from scupper in civil land	1.00	x	8.00	4.35	3.00			
B	Quantity of muck from catch pit in civil land	1.00	x	8.00	(1.5x1.5+2.1x2.1)/2	2.50		313.20	Cum.
	Quantity of muck from Sl No 1. & 2 as above.							66.60	Cum.
3	Taking E.B, O.R & H.R @ 50%, 20%, & 30% respectively						G-Total	5907.30	Cum.
i.	30% E.B	5907.30	x	0.30	=			1772.19	Cum.
ii.	20% O.R.	5907.30	x	0.20	=			1181.46	Cum.
iii.	50% H.R.	5907.30	x	0.50	=			2953.65	Cum.
					Total =			5907.30	Cum
4	Quantity of muck as swell factor of (E.B. only)	1.25	x		1772.19			2215.24	Cum
5	Quantity of total muck from point ii., iii., & 4				Sl. No (i + ii + 4) =			6350.35	Cum
	Quantity of total muck Generated				Say			6350.35	Cum
1	Quantity used for super elevation, grade improvement & native filling of road @ 10%	6350.35	x	10/100				635.04	Cum
2	Quantity erodes by wind and water @ 20% of (E.B. only)	2215.24	x	20/100				443.05	Cum
3	Quantity of muck disposed in filling (retained by R/W) in 50% length	(1100x2.00x3.00)/2x0.50						1650.00	Cum
4	Quantity of stones used Scuppers and catch pit @ 57.00 cum. Per no.	57.00	x	8.00				456.00	Cum
5	Quantity of stones used in R/W in 50% length	(1100 x (0.60+1.77)/2 x 3.50x0.50						2281.13	Cum
6	Quantity of stones used in Wire Crates for 3 dumping zones	As per details						210.15	Cum
	Total quantity of muck used at site including weathering by nature							5675.36	Cum
	Quantity of muck retained	=			6350.35	-	5675.36	=	674.99 Cum.

निस्तारित की जाने वाली मलवे की मात्रा =

674.99 Cum अथवा 675.00 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 पहुँचेगी एवं भू-क्षरण की सम्भावना भी नहीं होगी।

अवशेष मलवे के निस्तारण हेतु मार्ग पर ऐसी जगह चिन्हित किये जा रहे हैं जिससे वन सम्पदा आदि की क्षति नहीं होगी। निस्तारित किये जाने वाले स्थानों का प्रस्ताव संलग्न लाईन डायग्राम में दर्शाया जा रहा है।

[Signature]

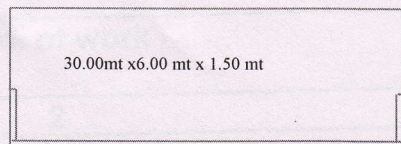
Assistant Engineer
Temp. Div. P.W.D.
Kirtinagar

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

DETAILS OF MEASUREMENT

Name of work- जनपद टिहरी गढ़वाल के विकासखण्ड कीर्तिनगर के अन्तर्गत लोस्तु-घण्डियाल-हौन्दू से रिंगोली मोटर मार्ग का निर्माण। (लम्बाई 1.650 किमी०)

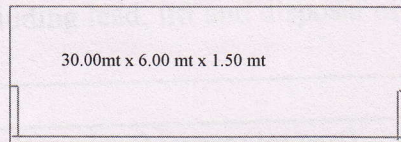
Dumping Zone - 1 (K.M-1)



Plan of dumping zone 1.

Capacity Of Dumping Zone No. 1	=	3/4	33.00	6.00	1.50	222.75	Cum	-
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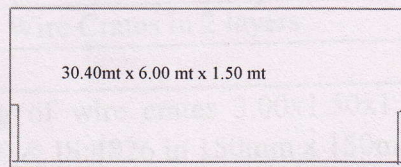
Dumping Zone - 2 (K.M. 2)



Plan of dumping zone 2.

Capacity Of Dumping Zone No. 2	=	3/4	30.00	6.00	1.50	202.50	Cum	-
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Dumping Zone - 3 (K.M. 2)



Plan of dumping zone 3.

Capacity Of Dumping Zone No. 2	=	3/4	30.40	6.00	1.50	205.20	Cum	-
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Total quantity of muck retained by Dumping zone 1,

222.75

Dumping zone 2

=

202.50

Dumping zone 3

205.20

=

630.45 Cum.

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DETAILS OF MEASUREMENT

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Sl. No.	Item of work	No	L	W/B	H/D	Quantity	
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						
	Site No. 1 (K.M. 1)						
	Quantity for Wire Crates in 2 layers (1st part)	1x	1/3	33.00	1.50	0.75	12.38 Cum.
	Site No. 2 (K.M. 2)						
	Quantity for Wire Crates in 2 layers	1x	1/3	30.00	1.50	0.75	11.25 Cum.
	Site No. 2 (K.M. 2)						
	Quantity for Wire Crates in 2 layers	1x	1/3	30.40	1.50	0.75	11.40 Cum.
						Total	35.03 Cum.
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 weighting not less than 25 kg each.(As per PWD Uttarakhand Specification)						
	Site No. 1 (K.M. 1)						
	Quantity for Wire Crates in 2 layer (1st part)	1x	1	33.00	1.50	1.50	74.25 Cum.
	Site No. 2 (K.M. 2)						
	Quantity for Wire Crates in 2 layers	1x	1	30.00	1.50	1.50	67.50 Cum.
	Site No. 3 (K.M. 2)						
	Quantity for Wire Crates in 2 layers	1x	1	30.40	1.50	1.50	68.40 Cum.
						Total	210.15 Cum.
3	Area of Nap Land	1x	1	33.00	6.00	-	198.00 Sqm
		1x	1	30.00	6.00		180.00
		1x	1	30.40	9.00		273.60
						Total	378.00 Sqm
	10000 Sqm = One Hect.						0.038 Hec
	Area of dumping yard						0.038 Hec

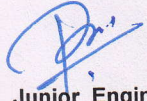
J.E.


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

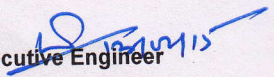
BILL OF QUANTITY

कार्य का नाम—जनपद टिहरी गढ़वाल के अन्तर्गत लोस्तु—घण्डियाल—हौन्दू से रिंगोली मोटर मार्ग का निर्माण।(लम्बाई 1.650 किमी०)

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	35.03	Cum.	228.60	Cum.	8006.72
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 weighting not less than 25 kg each.(As per PWD Uttarakhand Specification)	210.15	Cum.	1203.90	Cum.	252999.59
3	Area of Nap Land	0.038	Hec	370000.00	Hec	13986.00
				Total		274992.30


Junior Engineer
Prov. Div. P.W.D.
Srinagar, H.Q.-Kirtinagar

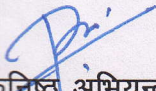

Assistant Engineer
Prov. Div. P.W.D.
Srinagar, H.Q.-Kirtinagar



Executive Engineer
Prov. Div. P.W.D.
Srinagar, H.Q.-Kirtinagar

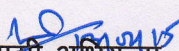
आगणन की लागत का सारांश

Name of Work :- जनपद टिहरी गढ़वाल के विकासखण्ड कीर्तिनगर के अन्तर्गत लोस्तु-घण्डियाल-हौन्दू से रिंगोली मोटर मार्ग का निर्माण। (लम्बाई 1.650 किमी०)

क्रम संख्या	विवरण	लागत (लाख में)
1	जनपद टिहरी गढ़वाल के विकासखण्ड कीर्तिनगर के अन्तर्गत लोस्तु-घण्डियाल-हौन्दू से रिंगोली मोटर मार्ग का निर्माण। (लम्बाई 1.650 किमी०)	Rs.274,992.30
	योग	Rs.274,992.30
	अर्थात् लाख रू० में	Rs.2.75


कनिष्ठ अभियन्ता
अ०ख०, लो०नि०वि० श्रीनगर
मुख्यालय-कीर्तिनगर


सहायक अभियन्ता
अ०ख०, लो०नि०वि० श्रीनगर
मुख्यालय-कीर्तिनगर


अधिश्रमिणी अभियन्ता
अ०ख०, लो०नि०वि० श्रीनगर
मुख्यालय-कीर्तिनगर

परियोजना का नाम- राज्य योजना के अन्तर्गत जनपद टिहरी गढ़वाल के विकासखण्ड कीर्तिनगर में
लोस्तु-घण्डियाल-हौन्दू से रिंगोली मोटर मार्ग का नव निर्माण।(ल०-1.650 किमी०)
मलवा निस्तारण - साईट-1



Per

HL
सहायक अभियन्ता
अ० ख०, लो० नि० वि० श्रीनगर
मु० कीर्तिनगर

12/05/15
Executive Engineer
T.D. P.W.D. Srinagar
H.Q. Kirtinagar

परियोजना का नाम— राज्य योजना के अन्तर्गत जनपद टिहरी गढ़वाल के विकासखण्ड कीर्तिनगर में
लोस्तु-घण्डियाल-हौन्दू से रिंगोली मोटर मार्ग का नव निर्माण (ल०-1.650 किमी०)

मलवा निस्तारण — साईट-2



मलवा निस्तारण — साईट-3



Pr.
P. J.E

↓
A.E
सहायक अभियन्ता
अ० ख०, ल० नि० वि० श्रीनगर
मु० कीर्तिनगर

Executive Engineer
T.D. P.W.D. Srinagar
H.Q. Kirtinagar