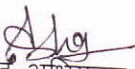


प्रारूप-49

परियोजना का नाम :- जनपद टिहरी गढ़वाल के विधान सभा क्षेत्र देवप्रयाग के विकास खण्ड कीर्तिनगर के अन्तर्गत खोला धारपयांकोटी मोटर मार्ग के अन्तिम बिन्दु से स्यालसौड़ पनयाली होते हुये बणतोलीखाल नैलचामी तक मोटर मार्ग का निर्माण कार्य (लम्बाई 6.00 कि०मी०)।

मलवा निस्तारण योजना इस मार्गदर्शिका के परिशिष्ट में दिये माडल अनुसार तैयार की गई है। (पृष्ठ सं 126 से 138 तक संलग्न है)


कनिष्ठ अभियन्ता
अ०ख० लो०नि०वि० श्रीनगर
मु० कीर्तिनगर।


सहायक अभियन्ता
अ०ख० लो०नि०वि० श्रीनगर
मु० कीर्तिनगर।


अधिशिप्सी 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

कार्य का नाम:

Construction of Motor road from Sylsaur-Panyali-
Bantolikhal- Nailchami motor road Under state
sector in Kirtinagar/Ghanshali block of District
Tehri

लम्बाई:-

6.000 कि०मी०

अनुमानित लागत

Rs. 52.21

लाख

प्रतिवेदन

कार्य का नाम:- जनपद टिहरी गढ़वाल के विधान सभा क्षेत्र देवप्रयाग के विकास खण्ड कीर्तिनगर के अन्तर्गत खोला धारपयांकोटी मोटर मार्ग के अन्तिम बिन्दु से स्यालसौड़ पनयाली होते हुये बणतोलीखाल नैलचामी तक मोटर मार्ग का निर्माण कार्य (लम्बाई 6.00 कि०मी०)

जनपद टिहरी गढ़वाल के विकासखण्ड कीर्तिनगर में मुख्यमंत्री ग्राम सड़क योजना के अन्तर्गत खोला धारपयांकोटी मोटर मार्ग के अन्तिम बिन्दु से स्यालसौड़ पनयाली होते हुये बणतोलीखाल नैलचामी तक मोटर मार्ग के कार्य की स्वीकृति शासनादेश 382/111 (2)/17-10 (एम०एल०ए०)/2017 दिनांक 8.08.2017 द्वारा कुल लम्बाई 6.00 कि०मी०, लागत 26.94 लाख प्रथम चरण हेतु प्राप्त हुई है। उपरोक्त मोटर मार्ग पर वन भूमि पड़ने के कारण वन भूमि हस्तान्तरण पत्रावली गठन की कार्यवाही की जा रही है।

अतः उक्त के क्रम में मलवा निस्तारण प्रस्ताव गठित किया जा रहा है।

इस विस्तृत प्रस्ताव में मलवा निस्तारण हेतु छः डम्पिंग जोन बनाये गये हैं। जिनमें मलवा निस्तारण करने हेतु वायरक्रेट द्वारा रिटेनिंग वॉल का निर्माण किया जायेगा।

उपरोक्त वर्णित कार्यो हेतु कुल लागत रू० 52.21 लाख का प्रस्ताव गठित कर स्वीकृति हेतु प्रस्तुत है।

सहायक अभियन्ता
अ०ख०, लो०नि०वि० श्रीनगर,

मुख्यालय-कीर्तिनगर
J.E

अधिशायी अभियन्ता
अ०ख०, लो०नि०वि० श्रीनगर,
मुख्यालय-कीर्तिनगर

(129)

Analysis of Rate

Name Of Work: Construction of Motor road from Sylsaur-Panyali- Bantolikhal-
Nailchami motor road Under state sector in
Kirtinagar/Ghanshali block of District Tehri

Block: Devprayag

SN	Description	Rate	Unit
1-2	Excavation in foundation for retaining, breast walls etc, in all types of soils and rocks including all lead, lift and disposal of surplus material as per direction of engineer - in - charge, as per drawing and echnical specifications Clause 305.1 of MORD Specifiction	Cu.m	Rs. 294.80
1-7-1	Providing and laying of wire crates 3.00x1.50x1.50 in size with GI wire conforming to IS: 280 & IS:4826 in 150mm x 150mm mesh laid with stoneboulders. as per direction of Engineer-in- charge. (As per PWD Uttarakhand specifications)	Cu.m	Rs. 1,402.50


J.E.


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


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

SPECIFICATIONS

Name Of Work:- Construction of Motor road from Sylsaur-Panyali-Bantolikhal- Nailchami motor road Under state sector in Kirtinagar/Ghanshali block of District Tehri

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- Construction of Motor road from Sylsaur-Panyali- Bantolikhal- Nailchami motor road Under state sector in Kirtinagar/Ghanshali block of District Tehri

Sl.No	Item of work	No	L	W/B	H/D	Quantity
1	2	3	4	5	6	7
1	Excavation in foundation for retaining & breast walls in all types of soils and rocks cu.m including lead, lift and disposal of surplus material as per direction of engineer - in - charge					
	For Dumping Zone NO-1					
	Quantity for R/W	1x 1	24.00	1.50	0.75	27.00 Cum.
	Quantity for R/W	1x 2	9.00	1.50	0.75	20.25 Cum.
	For Dumping Zone NO-2					
	Quantity for R/W	1x 1	50.00	1.50	0.75	56.25 Cum.
	Quantity for R/W	1x 2	7.50	1.50	0.75	16.88 Cum.
	For Dumping Zone NO-3					
	Quantity for R/W	1x 1	60.00	1.50	0.75	67.50 Cum.
	Quantity for R/W	1x 2	24.00	1.50	0.75	54.00 Cum.
	For Dumping Zone NO-4					
	Quantity for R/W	1x 1	60.00	1.50	0.75	67.50 Cum.
	Quantity for R/W	1x 2	15.00	1.50	0.75	33.75 Cum.
	For Dumping Zone NO-5					
	Quantity for R/W	1x 1	60.00	1.50	0.75	67.50 Cum.
	Quantity for R/W	1x 2	20.00	1.50	0.75	45.00 Cum.
	For Dumping Zone NO-6					
	Quantity for R/W	1x 1	42.00	1.50	0.75	47.25 Cum.
	Quantity for R/W	1x 2	18.00	1.50	0.75	40.50 Cum.
					Total	301.50 Cum.
2	Providing and laying of wire crates 3.00x1.50x1.50 in size with GI wire conforming to IS: 280 & IS:4826 in 150mm x 150mm mesh laid with stone boulders. as per direction of Engineer-in- charge. (As per PWD Uttarakhand specifications)					
	For Dumping Zone NO-1					
	Quantity for R/W	1x 1	24.00	1.50	4.50	162.00 Cum.
	Quantity for R/W	1x 2	9.00	1.50	4.50	121.50 Cum.
	For Dumping Zone NO-2					
	Quantity for R/W	1x 1	50.00	1.50	4.50	337.50 Cum.
	Quantity for R/W	1x 2	7.50	1.50	4.50	101.25 Cum.
	For Dumping Zone NO-3					
	Quantity for R/W	1x 1	60.00	1.50	4.50	405.00 Cum.
	Quantity for R/W	1x 2	24.00	1.50	4.50	324.00 Cum.

For Dumping Zone NO-4							
	Quantity for R/W	1x 1	60.00	1.50	4.50	405.00	Cum.
	Quantity for R/W	1x 2	15.00	1.50	4.50	202.50	Cum.
For Dumping Zone NO-5							
	Quantity for R/W	1x 1	60.00	1.50	4.50	405.00	Cum.
	Quantity for R/W	1x 2	20.00	1.50	4.50	270.00	Cum.
For Dumping Zone NO-6							
	Quantity for R/W	1x 1	42.00	1.50	4.50	283.50	Cum.
	Quantity for R/W	1x 2	18.00	1.50	4.50	243.00	Cum.
					Total	3260.25	Cum.
3							
(i)	Required area of Nap Land for Muck Dumping			As per Dumping Zones		0.1200	Hec.
(ii)	Required area of Civil Land for Muck Dumping			As per Dumping Zones		0.1116	Hec.
(iii)	Required area of Reserve forest Land for Muck Dumping			As per Dumping Zones		0.2571	Hec.


J.E.

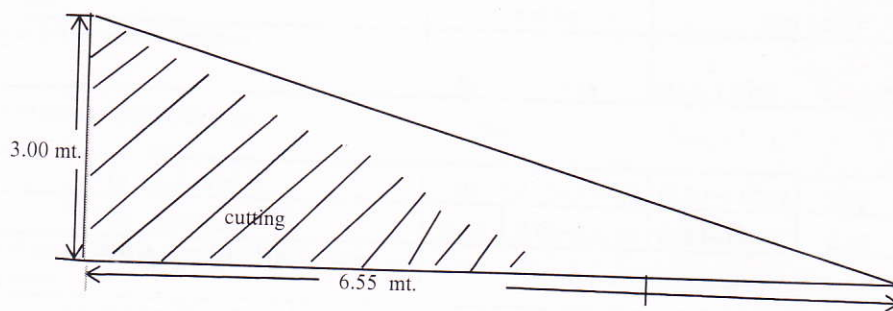

Assistant Engineer
Temp. Div. P.W.D.
Kirtinagar

DETAILS OF MEASUREMENT

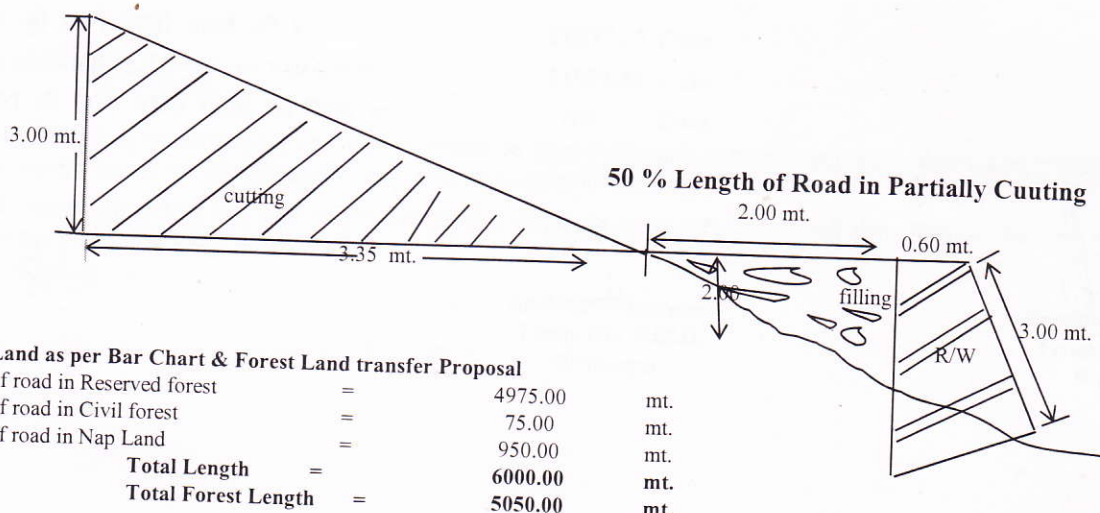
Name of work- Construction of Motor road from Sylsaur-Panyali- Bantolikhal- Nailchami motor road
Under state sector in Kirtinagar/Ghanshali block of District Tehri

Total quantity of Muck generated from road cutting

Typical X-Section of Road



50 % Length of Road in Full Cutting



50 % Length of Road in Partially Cutting

Forest Land as per Bar Chart & Forest Land transfer Proposal

A	Length of road in Reserved forest	=	4975.00	mt.
B	Length of road in Civil forest	=	75.00	mt.
C	Length of road in Nap Land	=	950.00	mt.
	Total Length	=	6000.00	mt.
	Total Forest Length	=	5050.00	mt.

Calculation of Muck As Above Length

Assuming 50 % Length in Full cutting & 50 % Length in Partially Cutting & Partially Filling

1	Quantity of muck generated from cutting	1	x	1/2	2525.00	6.55	3.00	24808.13	Cum.
	Quantity of muck generated from cutting	1	x	1/2	2525.00	3.35	3.00	12688.13	Cum.
2	Quantity of muck from scupper & catch pit								
a	Quantity of muck from scupper in civil land forst land	1	x	40	6.55	3.80	2.20	2190.32	Cum.
b	Quantity of muck from catch pit in civil land land forst land	1	x	40	(1.5x1.5+2.1x2.1)/2		2.20	293.04	Cum.
c	Quantity of muck from Excavation of Walls in civil land land forst land	1	x1/3	2525	(0.60+1.60)/2		3.00	2777.50	Cum.
d	Quantity of muck generated from excavation for wirecrate for dumping zones	1	x	As per detail attached				301.50	
	Quantity of muck from SI No 1. & 2 as above.								
3	Taking E.B, O.R & H.R @ 50%, 20%, & 30% respectively						G-	43058.62	Cum.
i.	30% E.B								
ii.	40% O.R.	43058.62	x	0.30	=	12917.59			
iii.	30% H.R.	43058.62	x	0.40	=	17223.45			
		43058.62	x	0.30	=	12917.59			
iv	Quantity of muck as swell factor of (E.B. only)	1.2	x	12917.59	Total =	43058.63			
5	Quantity of total muck from point ii., iii., & iv	SI. No (ii + iii + iv) =				15501.11	Cum		
	Quantity of total muck Generated				45642.15	Cum			
				Say	45642.15	Cum			

J.C

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AE

अधियासी अभियन्ता
सो खो, लो निो विो
क्रीनर मुो कोलिनगर

Disposal & use of material

1	Quantity used for super elevation, grade improvement & patrie filling of road @ 10%	45642.15	10%	4564.22	Cum
2	Quantity erodes by wind and water @ 10% of (E.B. only)	15501.11	10%	1550.11	Cum
	Quantity of stones used in R/W in 50% length	2525.00	(0.60+1.60)/2x3.5	8332.50	Cum
3	Quantity of muck disposed in filling (retained by R/W) in 50% length	2525.00	2.00 2.00/2	5050.00	Cum
4	Quantity of Stones used in Scuppers	40 6.55	(0.60+1.20)/2 1.80	424.44	Cum
5	Quantity of stones used Catch pit				
	(i) Back Wall	40	(4.16+3.44)/2 (0.60+0.97)/2 2.00	250.572	Cum
	(ii) Side wall	2x40	(2.83+2.47)/2 (0.60+0.97)/2 2.00	332.84	Cum
6	Quantity of stones used in Wire Cate Walls for 6 dumping zones	As per detail attached			3260.25 Cum
	Total quantity of muck used at site including weathering by nature			23764.93	Cum
	Quantity of muck retained	45642.15	-	23764.93	21877.22 Cum.

निस्तारित की जाने वाली मलवे की मात्रा = **21877.22 Cum**

Capisity of Dumping Zones from Km 1 to 6 **21991.50 Cum**

अनिस्तारित की जाने वाली मलवे की मात्रा = **Nil 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।

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।

J.E.
J.E.

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

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

DETAILS OF MEASUREMENT

135

Name of work- Construction of Motor road from Sylsaur-Panyali- Bantolikhal- Nailchami motor road Under state sector in Kirtinagar/Ghanshali block of District Tehri

Dumping Zone - A (Km-1 ,Chainage 0.425-450 Link Road)

Length	Width	Height Avg	Unit
24.00	9.00	4.50	Mtr

Plan of dumping zone 1.

Area of Civil Land in Dumping Zone No-1	1x1	24.00	9.00		216.00	Sqm
Capecity Of Dumping Zone No. 1	1x1	24.00	9.00	4.50	972.00	Cum

Dumping Zone - B (Km-1,Chainage 0.525-0.575)

Length	Width	Height Avg	Unit
50.00	7.50	4.50	Mtr

Plan of dumping zone 2.

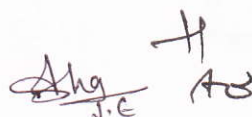
Area of Reserve forest Land in Dumping Zone No-2	1x1	50.00	7.50		375.00	Sqm
Capecity Of Dumping Zone No. 2	1x1	50.00	7.50	4.50	1687.50	Cum

Dumping Zone - C (Km-2,Chainage 1.250-1.310)

Length	Width	Height Avg	Unit
60.00	24.00	4.50	Mtr

Plan of dumping zone 3.

Area of Reserve Land in Dumping Zone No-3	1x1	60.00	24.00		1440.00	Sqm
Capecity Of Dumping Zone No. 3	1x1	60.00	24.00	4.50	6480.00	Cum



Dumping Zone - D (Km-2, Chainage 1.525 1.585)

Length	Width	Height Avg	Unit
60.00	15.00	4.50	Mtr

Plan of dumping zone 4.

Area of Civil Land in Dumping Zone No-4	1x1	60.00	15.00		900.00	Sqm
Capecity Of Dumping Zone No. 4	1x1	60.00	15.00	4.50	4050.00	Cum

Dumping Zone - E (Km 3, Chainage 2.550-2.610)

Length	Width	Height Avg	Unit
60.00	20.00	4.50	Mtr

Plan of dumping zone 5.

Area of Naap Land in Dumping Zone No-5	1x1	60.00	20.00		1200.00	Sqm
Capecity Of Dumping Zone No. 5	1x1	60.00	20.00	4.50	5400.00	Cum

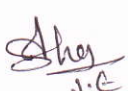
Dumping Zone - F (Km 5 ,Chainage 4.350-4.400)

Length	Width	Height Avg	Unit
42.00	18.00	4.50	Mtr

Plan of dumping zone 6.

Area of Reserve Land in Dumping Zone No-6	1x1	42.00	18.00		756.00	Sqm
Capecity Of Dumping Zone No. 6	1x1	42.00	18.00	4.50	3402.00	Cum

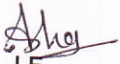
Total Area in Naap Land in Dumping Zone No 1 to 6		1200.00				1200.00
Total Area in Civil Land in Dumping Zone No 1 to 6		216.00	+	900.00		1116.00
Total Area in Reserve Forest Land in Dumping Zone No 1 to 6	375.00	+	1440.00	+	756.00	2571.00
Total Qty in Naap Land in Dumping Zone No 1 to 6		5400.00				5400.00
Total Qty in Civil Land in Dumping Zone No 1 to 6		972.00	+	4050.00		5022.00
Total Qty in Reserve Forest Land in Dumping Zone No 1 to 6	1687.50	+	6480.00	+	3402.00	#####
Total Capicity of Dumping Zones From Km 1 to 6						#####



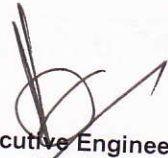

BILL OF QUANTITY

Name of work- Construction of Motor road from Sylsaur-Panyali- Bantolikhal-Nailchami motor road Under state sector in Kirtinagar/Ghanshali block of District

Sl. No.	Item of work	Quantity	Unit	Rate	Per	Amount
1	2	3	4	5	6	7
1	Excavation in foundation for retaining & breast walls in all types of soils and rocks cu.m including lead, lift and disposal of surplus material as per direction of engineer - in - charge	301.50	Cum.	294.80	Cum.	88882.20
2	Random Rubble Masonary laid dry in breast wall, retaining wall, parapets, scupper cu.m etc. Including supply of all materials, labour, t & p& royalty etc, required for proper complition of work. (As per PWD Uttarakhand	3260.25	Cum.	1402.50	Cum.	4572500.63
				Total		4661382.83


J.E.

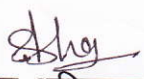

Assistant Engineer
Prov. Div. P.W.D.
New Tehri


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

आगणन की लागत का सारांश

Name of Work :- Construction of Motor road from Sylsaur-Panyali- Bantolikhal-Nailchami motor road Under state sector in Kirtinagar/Ghanshali block of District Tehri

क्रम संख्या	विवरण	लागत (लाख में)
1	Construction of Motor road from Sylsaur-Panyali- Bantolikhal- Nailchami motor road Under state sector in Kirtinagar/Ghanshali block of District Tehri	Rs.4,661,382.83
	Add G.S.T @ 12 %	Rs.559,365.94
	योग	Rs.5,220,748.76
	अर्थात् लाख रू० में	Rs.52.21


कनिष्ठ अभियन्ता

अ०ख०, लो०नि०वि० श्रीनगर
मुख्यालय-कीर्तिनगर


सहायक अभियन्ता
अ०ख०, लो०नि०वि० श्रीनगर
मुख्यालय-कीर्तिनगर


सहायक अभियन्ता
अ०ख०, लो०नि०वि० श्रीनगर
मुख्यालय-कीर्तिनगर


अधिशारी अभियन्ता
अ०ख०, लो०नि०वि० श्रीनगर
मुख्यालय-कीर्तिनगर


वन क्षेत्राधिकारी
माणिकनाथ रेंज
डोंगचौरा


उप प्रशासीय वनाधिकारी
(नरेश्वरगढ़)
नरेश्वरगढ़ वन प्रभाग


सहसिलदार
घनसाली
टिहरी गढ़वाल




वन क्षेत्राधिकारी
धिलगना रेंज घनसाली
टिहरी गढ़वाल


सहायक वनाधिकारी
नरेश्वरगढ़ वन प्रभाग
महि की रेवती