प्रारुप-49

मियोजना विकरणः— ना० नुख्यमंत्री घोषणा सं० ७०/२०१७ के अन्तर्गत जनपद टिहरी के विकास खण्ड कीर्तिनगर के ग्राम धारी से बाग्यो तक मोटर मार्ग का निर्माण। (लम्बाई 3.000 किं0मी०)।

मलवा निस्तारण योजना नार्गदर्शिका के परिशिष्ट में दिये माडल अनुसार तैयार कर

अं०स०अभियन्ता अ०ख०लो०नि०वि० कीर्तिनगर

सहायक अभियन्ता अ०ख०लो०नि०वि० कीर्तिनगर अधिशासी अभियन्ता अ०ख०लो०नि०वि० 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:-

LTTLTTTTTTTTTTTTTTTTTTT

मा० मुख्यमंत्री घोषणा सं० ७०/२०१७ के अन्तर्गत जनपद टिहरी के विकास खण्ड कीर्तिनगर के ग्राम धारी से बाग्यो तक मोटर मार्ग का निर्माण।

अनुमानित लागत

Rs. 16.21

लाख

Analysis of Rate

Name Of Work: मा० मुख्यमंत्री घोषणा सं० ७०/२०१७ के अन्तर्गत जनपद टिहरी के विकास खण्ड़ कीर्तिनगर के ग्राम धारी से बाग्यो तक मोटर मार्ग का निर्माण।

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 technical specifications Clause 305.1 of MORD Specifiction		Rs. 337.4
Providing and laying of wire crates 3.00x1.50x1.50 in		110.007.40
	engineer - in - charge, as per drawing and technical specifications Clause 305.1 of MORD Specifiction	engineer - in - charge, as per drawing and technical specifications Clause 305.1 of MORD Specifiction Cu.m Providing and laying of wire crates 3.00x1.50x1.50 in

in150mmx 150mm meshlaid withstone boulders. as per direction of Engineer-in- charge. (As per PWD Uttarakhand specifications) GI wire 10 gauge BWG

A.A.E

Block:

1-7-1.

Devprayag

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

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

Cu.m Rs. 1,488.90



PWD UTTARAKHAND SCHEDULE OF RATES

SOR :- MISCELLANEOUS For Block 22 Kirtinagar

Year :- FY. 2019-20

Effective From:-01-May-2019

St. No. Description Rate Unit

CHAP	TER-1 - General Items		
1-1	Earthwork in Hill Road (Hill Side Cutting)		
1-1-1	Excavation in soil in Hilly Area by mechanical means		
1-1-1-A	Excavation in soil in Hilly Area by mechanical means Without		
	useinng Dozer including cutting and trimming of side slopes and		
	disposing of excavated earth with a lift upto 1.5 m and a lead upto	63.80	Cum
	20 m as per Technical Specification Clause 1603.1		
1-1-1-B	Extra for Every Additional Lift of 1.5 m or Part thereof	22.20	Cum
1-1-2	Excavation in Hilly Areas in Ordinary Rock by mechanical means not		
	requiring blasting (With out Dozer)		
	Excavation in hilly area in ordinary rock not requiring blasting by	97.60	Cum
	mechanical means without using Dozer including cutting and trimming		
	of slopes and disposal of cut material with a lift upto 1.5 m and lead upto 20 m as per Clause 1603.2.		
1-1-3	Excavation in Hilly Areas in Hard Rock requiring blasting		
1-1-3-A	Excavation in hilly areas in hard rock requiring blasting, by		
	mechanical means without using Dozer , lift upto 1.5 m and	057.00	0
	disposal of excavated rock upto a lead of 20 m as per Clause	257.60	Cum
	1603.2.		
1-1-3-B	Extra for Every Additional Lift of 1.5 m or Part thereof	43.70	Cum
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	337.40	Cum
	per direction of engineer - in - charge, as per drawing and technical		
1-3	specifications Clause 305.1 of MORD Specifiction Random Rubble Stone Masonry laid Dry, in breast walls, retaining walls,		
10	etc. including supply of all material, labour, T&P and royalties etc.		
	complete as per drawing and technical specifications Clauses 702, 704,	1,839.40	Cum
	1202 & 1203 of MORD Specifiction	1,000.40	Ouiii
1-4	Random Rubble Stone Masonry laid in 1:6 cement and sand mortar, in		
	breast walls, retaining walls, parapets, scuppers, etc. including supply of	0.000.50	
	all material, labour, T&P and royaltiles etc. complete as per drawing and	3,293.50	Cum
	technical specifications Clauses 702, 704, 1202 & 1203 of MORD Specification		
1-5	Hand Packed stone filling in back of walls including cost of all materials,		
	royality, T&P etc. complete as per direction of Engineer-in- charge. (As	760.70	Cum
	per PWD Uttarakhand specifications)		Odini
1-6	Construction of coolie walling including supply of all material, labour, T&P		
	etc. required for proper completion of the work as per direction of	1 207 00	0
	Engineer-in- charge. (As per PWD Uttarakhand specifications)	1,207.90	Cum

13.

सहायक क्षियन्ता अस्थाई खण्ड लोव्निविक बीनगर-मुक कीतिनगर टिक दक Page 2 of 19





PWD UTTARAKHAND SCHEDULE OF RATES

Description

SOR :- MISCELLANEOUS For Block 22 Kirtinagar

Year :- FY. 2019-20 Effective From:-01-May-2019

Rate

Unit

16.77	Providing and laying of wire crates 3.00x1.50x1.50 in size with GI wire		
	antityming to IS: 280 & IS:4826 in 150mm x 150mm mesh laid with stone		
	basices as per direction of Engineer-in- charge. (As per PWD		
	Ultarakhand specifications)		
157.0	GI wire 10 gauge BWG	1,488.90	Cum
132	Gi wire 8 gauge BWG	1,670.70	Cum
11-8	Francisco and Laving of Mechanically Woven Double Twisted Hexagonal		
	See		
	discrete at the interval, having mesh opening 100mmx120 mm, mesh		
	wine diameter 2.7mm 3.7mm, edge/selvedge wire diameter 3.4/4.4 mm	7,721.40	No.
	and lacing wire diameter 2.23.2 mm. (The work includes filling boulders		
	in the gabions).		
1-9	Providing and Laying of Mechanically Woven Double Twisted Hexagonal		
	shaped Gabions of galkanized steel, of size 3mX1mX1m with two		
	diaphragms at 1m interval, having mesh opening 100mmx120 mm, mesh	7,903.20	No.
	wire diameter 3 mm for gabions, edge/selvedge wire diameter 3.9 mm	7,000.20	1 Steller Land
	and lacing wire diameter 2.2 mm. (The work includes filling boulders in		
	the gabions).		
1-10	Clearance of land slides (Slip Clearance)		
1-10-1	Clearance of land slides in soil and ordinary rock by a bull-dozer D 80		
	A-12, 180 HP and disposal of the same on the valley side complete	63.30	Cum
	as directed by the Engineer-in-charge.		
1-10-2	Clearing of land slide in hard rock requiring blasting for 50 per cent of		
	the boulders and disposal of the same on the valley side (Using bull-	105.80	Cum
	dozer) complete as directed by the Engineer-in-charge.	100.00	00
1-10-3	Slip clearance (by manual means) of loose earth and other small		
	loose materials including disposal complete as directed by the	201.90	Cum
	Engineer-in-charge.		
1-10-4	Slip clearance (by manual means) of earth and boulders including	000 70	
	disposal complete as directed by the Engineer-in-charge.	202.70	Cum
1-10-5	Slip clearance (by manual means) of boulders only including disposal	216.90	Cum
1	complete as directed by the Engineer-in-charge.		
1-11	Setting Out (Construction of Reference Pillars, Back Pillars and Job		
	Pillars)		
1-11-1	Construction of reference pillars with RR 1:6 stone masonary and		
	Plastered with 1:4 Mortar, (totally under ground) of length 200mm,	F0 70	AL.
	width 200mm and height 300mm) as per Fig. 1600.1 (b) and	53.70	No.
	Technical Specification Clause 1602.1 of MORD specifications.		

13.

सहायक व्यक्तिम्ता अस्थाई खण्ड लो०नि०वि० बीनगर-मु० कोतिनगर टि० व० Page 3 of 19



DETAILS OF MEASUREMENT

मा0 मुख्यमंत्री घोषणा सं0 70/2017 के अन्तर्गत जनपद टिहरी के विकास खण्ड़ कीर्तिनगर के ग्राम धारी से बाग्यो तक मोटर मार्ग का निर्माण।

Libe	- HOIK	No	L	W/B	H/D	Quant	ity
2	4	3	4	5	6	7	_
	Escaped of surplus material as per direction Clause 305 J of MORD Specification	on of engineer - in	all types of soi - charge, as pe	ds and rocks in er drawing and	ncluding all le d technical sp	ead, lift and ecifications	l 5
	Dumping point 1	1x 1	20.00	1.50	1.00	30.00	Cun
4		1x 2	12.00	1.50	1.00	36.00	Cur
4	Dumping point 2	1x 1	20.00	1.50	1.00	30.00	
4		1x 2	10.00	1.50	1.00	30.00	Cur
J	Dianging point 3	1x 1	20.00	1.50	1.00	30.00	Cur
4		1x 2	10.00	1.50	1.00	30.00	Cur
Ц					Total	186.00	Cm
	Providing and laying of wire cruses 3 Mbs (Steam meetiland withstone buildiers, as p specifications) GI wire III gauge BWG (Dumping point I	er direction of Eng	ineer-in- char	ge. (As per PV	WD Uttarakh	and	
	specifications GI wire III gauge BWG	er direction of Eng	20.00	ge. (As per PV	WD Uttarakh:	150.00	Cur
-	Street nesting with time to gauge BWG Dumping point 1	lx 1	20.00 12.00	1.50 1.50	5.00 5.00	150.00 180.00	Cur
-	specifications GI wire III gauge BWG	lx 1 lx 2 lx 1	20.00 12.00 20.00	1.50 1.50 1.50	5.00 5.00 5.00	150.00 180.00 150.00	Cur Cur
	Street nesting with time to gauge BWG Dumping point 1	lx 1	20.00 12.00 20.00 10.00	1.50 1.50 1.50 1.50	5.00 5.00 5.00 5.00 5.00	150.00 180.00 150.00 150.00	Cun Cun Cun
	Some nesting with the source builders as posterifications of wire 10 gauge 3/WG. Dunging point 1 Dunging point 2	Ix 1 Ix 2 Ix 1 Ix 2	20.00 12.00 20.00 10.00 20.00	1.50 1.50 1.50	5.00 5.00 5.00 5.00 5.00 5.00	150.00 180.00 150.00 150.00 150.00	Cun Cun Cun Cun
	Dumping point 3	Ix 1 Ix 2 Ix 1 Ix 2 Ix 1 Ix 2 Ix 1	20.00 12.00 20.00 10.00	1.50 1.50 1.50 1.50 1.50	5.00 5.00 5.00 5.00 5.00	150.00 180.00 150.00 150.00 150.00 150.00	Cun Cun Cun Cun
	Dumping point 3 Required area of Civil Land	Ix 1 Ix 2 Ix 1 Ix 2 Ix 1 Ix 2 Ix 1	20.00 12.00 20.00 10.00 20.00	1.50 1.50 1.50 1.50 1.50	5.00 5.00 5.00 5.00 5.00 5.00 5.00	150.00 180.00 150.00 150.00 150.00	Cun Cun Cun Cun
	Dunging point 1 Dunging point 3 Required area of Civil Land Dunping point 1	Ix 1 Ix 2 Ix 1 Ix 2 Ix 1 Ix 2 Ix 1	20.00 12.00 20.00 10.00 20.00	1.50 1.50 1.50 1.50 1.50	5.00 5.00 5.00 5.00 5.00 5.00 5.00	150.00 180.00 150.00 150.00 150.00 150.00 930.00	Cun Cun Cun Cun Cun
	Dumping point 3 Required area of Civil Land Dumping point 1 Dumping point 2	lx 1 lx 2 lx 1 lx 2 lx 1 lx 2 lx 1 lx 2	20.00 12.00 20.00 10.00 20.00 10.00	1.50 1.50 1.50 1.50 1.50 1.50	5.00 5.00 5.00 5.00 5.00 5.00 5.00 Total	150.00 180.00 150.00 150.00 150.00 150.00	Cun Cun Cun Cun Cun Cun
	Dunging point 1 Dunging point 3 Required area of Civil Land Dunping point 1	IX 1 IX 2 IX 1 IX 2 IX 1 IX 2 IX 1 IX 2	20.00 12.00 20.00 10.00 20.00 10.00	1.50 1.50 1.50 1.50 1.50 1.50 1.50	5.00 5.00 5.00 5.00 5.00 5.00 5.00 Total	150.00 180.00 150.00 150.00 150.00 150.00 930.00	Cun Cun Cun Cun Cun Cun Sqm
	Dumping point 1 Dumping point 3 Required area of Civil Land Dumping point 1 Dumping point 2 Dumping point 3	lx 1 lx 2 lx 1 lx 2 lx 1 lx 2 lx 1 lx 1 lx 2	20.00 12.00 20.00 10.00 20.00 10.00	1.50 1.50 1.50 1.50 1.50 1.50 1.50	5.00 5.00 5.00 5.00 5.00 5.00 5.00 Total	150.00 180.00 150.00 150.00 150.00 150.00 930.00 200.00 300.00 800.00	Cum Cum Cum Cum Cum Cum Sqm Sqm Sqm
	Dumping point 1 Dumping point 3 Required area of Civil Land Dumping point 1 Dumping point 2 Dumping point 3	Ix 1 Ix 2 Ix 1 Ix 2 Ix 1 Ix 2 Ix 1 Ix 2 Ix 1 Ix 1 Ix 2	20.00 12.00 20.00 10.00 20.00 10.00	1.50 1.50 1.50 1.50 1.50 1.50 1.50	5.00 5.00 5.00 5.00 5.00 5.00 5.00 Total	150.00 180.00 150.00 150.00 150.00 150.00 930.00 200.00 300.00	Cum Cum Cum Cum Cum Cum Sqm Sqm Sqm

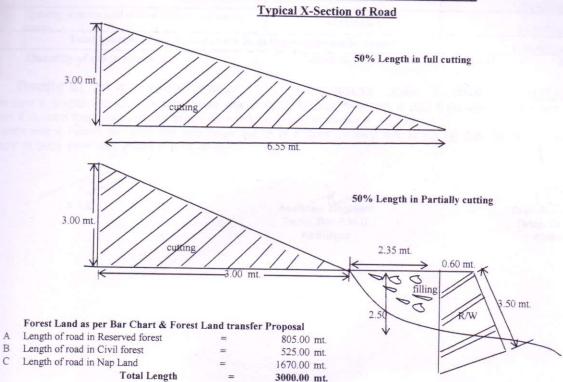
A.A.E

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

DETAILS OF MEASUREMENT

नाम :— मा0 मुख्यमंत्री घोषणा सं0 70/2017 के अन्तर्गत जनपद टिहरी के विकास खण्ड़ कीर्तिनगर के ग्राम घारी से बाय्दो टक मोटर मार्ग का निर्माण।

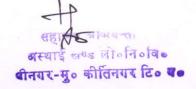
Total quantity of Muck generated from road cutting



1330.00 mt.

Calc	ulation of Muck As Above Length				-				-
Assu	ming 50% Length in Full Cutting & 50% Length	h in Partiall	y Cutti	ng & Pa	rtially Fil	ling			
1 (i)	Quantity of muck generated from full cutting	1	X	1/2	665.00	6.55	3.00	6533.63	Cun
1 (ii)	Quantity of muck generated from Partial cutting	1	Х	1/2	665.00	3.00	3.00	2992.50	
2	Quantity of muck from scupper & catch pit								Cun
a.	Quantity of muck from scupper in civil land & Forest Land	1	х	11.00	3.85	3.00	3.00	381.15	Cum
b.	Quantity of muck from catch pit in civil land & Forest Land	1	х	11.00	(1.5x1.5	+2.1x2.1)/2	2.50	183.15	Cum
c.	Quantity of muck from Excavation of walls in civil land & Forest Land	1	х	1/3	665.00	(0.60+1.60)/	3.50	853.42	Cum
d.	Quantity of muck generated from excavation for wirecrate for dumping zones			As per o	details attac		186.00	Cum	
	Quantity of muck from SI No 1. & 2 as above.						G-Total	11129.85	Con
3	Taking E.B, O.R & H.R @ 50%, 20%, & 30% respective	ely					- TO.	11127.00	Cun
i.	50% E.B	1	1129.85	х	0.50	=		5564.92	Cum
ii.	20% O.R.	11	129.85	х	0.20	=		2225.97	
iii.	30% H.R.	11	129.85	x	0.30	=		3338.95	
					0.50	Total =		11129.84	
4	Quantity of muck as swell factor of (E.B. only)	1.2	х	556	54.92		6677.90		Cum
5	Quantity of total muck from point ii., iii., & 4	SI	No (ii -	+ iii + 4) =	=		12242.82		
	Quantity of total muck Generated				Say		12242.82		
	Dispo	sal & use	of m	aterial			12242.02	Cum	-
1	Quantity used for super elevation, grade improvement & patrie filling of road @ 20% of Muck generated	12242.82		10/100			2449.56	0	
2	Quantity erodes by wind and water @ 10% of (E.B. only)	6677.90	х	10/100			2448.56 1001.69		
	Quantity of stones used in R/W in 50% length	= 665.00 x (0.60+1.7	7)/2 x 3.5	0		2758.09		
	Quantity of muck disposed in filling (retained by R/W) in 50% length	= (665.00 x 2	2.35 x 2.	50)/3			1302.29		

Total Forest Length



		-
	-	$\overline{}$
- 4		
		•
	120	5.11
- 1		-
- 3	-	

	Quantity of muck retained =	= 12242.82	9185.98 Cum 9185.98 = 3056.84 Cm
	Total quantity of muck used at site inc	luding weathering by nature	0195 00 0
3	zones	As per details	930.00 Cum
	Quantity of stones used in Wire Crate for 3 dumping	200	366.12 Cum
	(iii.) Side Walls	= 2 x 11 x (2.83+2.47) x (0.60+0.97) x	
	(E) Back Wall	= 1 x 11 x (4.16+3.44) x (0.60+0.97) x	262.50 Cum
3	Quantity of stones used in catch pit		
	Constitute of stones and discuss in the state of the stat	(0.00 1.20)/2 x 1.00	116.72 Cum
5	Quantity of stones used in Scuppers	= 1 x 11 x 6.55 x (0.60+1.20)/2 x 1.80	the second property and the second

निस्तारित की जाने वाली मलवे की मात्रा =

3056.84 Cum अथवा

Cu

इस प्रकार से उत्सर्जित मलवे का लगभग सम्पूर्ण उपयोग सतह की रिग्नेडिंग एवं दीवार निर्माण आदि के प्रयोग में तथा सुपर एलीवेशन व पटरी फिलिंग जादि 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 ड़ायग्राम में दर्शाया जा रहा है।

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

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

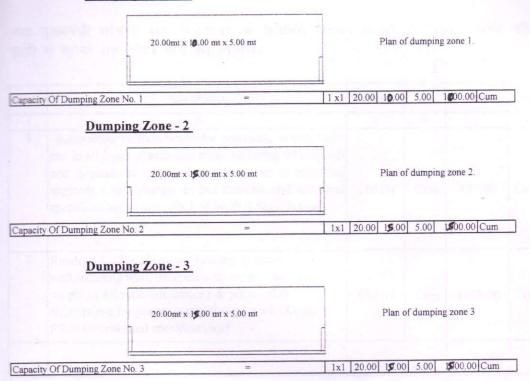
Kirtinagar

DETAILS OF MEASUREMENT



नाव मुख्यमंत्री घोषणा संव 70/2017 के अन्तर्गत जनपद टिहरी के विकास खण्ड़ कीर्तिनगर के ग्राम घारी से बाग्यो तक मोटर नार्च का निर्माण।

Dumping Zone - 1



Total quantity of muck retained by Dumping zone

4000.00

cum.

A.A.E

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

(F07)

BILL OF QUANTITY

मा0 मुख्यमंत्री घोषणा सं0 70/2017 के अन्तर्गत जनपद टिहरी के विकास खण्ड़ कीर्तिनगर के ग्राम घारी से बाग्यो तक मोटर मार्ग का निर्माण।

SI. No.	Item of work	Quantity	Unit	Rate	Per	Amount
1	2	3	4	5	6	7
1	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 technical specifications Clause 305.1 of MORD Specifiction	186.00	Cum.	337.40	Cum.	62756.40
2	Random Rubble Masonary laid dry in breast wall,retaining wall, parapets,scupper etc. Including supply of all materials,labour,t & p& royality etc,required for proper complition of work.(As per PWD Uttarakhand specifications)	930.00	Cum.	1488.90	Cum.	1384677.00
				Total		1447433.40

AAF.

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:- मा० मुख्यमंत्री घोषणा सं० ७७/२०१७ के अन्तर्गत जनपद टिहरी के विकास खण्ड़ कीर्तिनगर के ग्राम धारी से बाग्यो तक मोटर मार्ग का निर्माण।

कम सँख्या	विवरण	लागत (लाख में)
1	मा० मुख्यमंत्री घोषणा सं० ७० / २०१७ के अन्तर्गत जनपद टिहरी के विकास खण्ड़ कीर्तिनगर के ग्राम धारी से बाग्यो तक मोटर मार्ग का निर्माण।	Rs.1,447,433.40
	Add 12% G.S.T.	Rs.173,692.01
3.00	योग	Rs.1,621,125.41
1200	अर्थात लाख रू० में	Rs.16.21

कनिष्ठ अभियन्ता अ०ख०, लो०नि०वि० श्रीनगर मुख्यालय–कीर्तिनगर

सहायक अभियन्ता अ०ख०, लो०नि०वि० श्रीनगर मुख्यालय—कीर्तिनगर अधिशासी अभियन्ता अ०ख०, लो०नि०वि० श्रीनगर मुख्यालय—कीर्तिनगर