

प्रारुप-49

परियोजना विवरण :-

जनपद टिहरी गढ़वाल के विधान सभा क्षेत्र देवप्रयाग के अंतर्गत चौण्ड़ी, भदली, घटधार, थानकोट, घेरा होते हुए ग्राम सिमलासू बैण्ड़ तक मोटर मार्ग का निर्माण कार्य। (लम्बाई 5.275 कि0मी0)।

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

जानी है।

200

कनिष्ठ अभियन्ता अ०ख० लो०नि०वि० श्रीनगर मु० कीर्तिनगर।

सहायक अभियन्ता अ०ख० लो०नि०वि० श्रीनगर मु० कीर्तिनगर। अधिशासी अभियन्ता अ 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

"मक डिस्पोजल प्लान प्रस्ताव"

कार्य का नाम:--

जनपद टिहरी गढ़वाल के विधान सभा क्षेत्र देवप्रयाग के अंतर्गत चौंडी से भदली—घटधार—थानकोट—घेरा होते हुए ग्राम सिमलासू बैंण्ड तक मोटर मार्ग का नव निर्माण कार्य । (लम्बाई 5.275 कि0मी0)।

अनुमानित लागतः–

Rs. 19.11 लाख



कार्य का नाम:— जनपद टिहरी गढ़वाल के विधान सभा क्षेत्र देवप्रयाग के अंतर्गत चौंडी से भदली—घटधार—थानकोट—घेरा होते हुए ग्राम सिमलासू बैंण्ड तक मोटर मार्ग का नव निर्माण कार्य । (लम्बाई 5.275 कि0मी0)।

मक डम्पिंग प्रमाण पत्र

प्रमाणित किया जाता है कि जनपद टिहरी गढवाल के विकासखण्ड देवप्रयाग में राज्य योजना के अर्न्तगत चौंडी से भदली—घटधार—थानकोट—घेरा होते हुए ग्राम सिमलासू बैंण्ड तक मोटर मार्ग के निर्माण से उत्सर्जित मलवे के निस्तारण हेतु डिम्पंग जोन सिविल एवं आरक्षित वन भूमि पर प्रस्तावित किया गया है। उत्सर्जित मलवे के निस्तारण हेतु तीन डिम्पंग जोन प्रस्तावित किये गये हैं।

कनिष्ठ अभियन्ता

सहायक अभियन्ता अ०ख०, लो०नि०वि० श्रीनगर मुख्यालय—कीर्तिनगर

अधिशासी अभियन्ता अ०ख०, लो०नि०वि० श्रीनगर मुख्यालय—कीर्तिनगर

Chrose Localisance

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वित्र वित्रार्थ वित्र स्टिल्स्टी स्टिल्स्टी स्टिल्स्टी

(18)

Analysis of Rate

Name Of Work: जनपद टिहरी गढ़वाल के विधान सभा क्षेत्र देवप्रयाग के अंतर्गत चौंडी से भदली—घटधार—थानकोट—घेरा होते हुए ग्राम सिमलासू बैंण्ड तक मोटर मार्ग का नव निर्माण कार्य । (लम्बाई 5.275 कि0मी०)।

Block:

Devprayag

DIOCK.			
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 technical specifications Clause 305.1 of MORD Specifiction	Cu.m	Rs. 287.90
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 stone boulders. as per direction of Engineer-in- charge. (As per PWD Uttarakhand specifications).GI wire 10 gauge BWG	Cu.m	Rs. 1,362.40
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 Engineerincharge. (As per PWD Uttarakhand specifications)	Cu.m	Rs. 1,159.60

J.E.

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

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PWD UTTARAKHAND

SCHEDULE OF RATES

SOR :- MISCELLANEOUS For Block 21 Devaprayag

Year :- FY. 2018-19

Effective From:-01-May-2018

SI. No.

Description

Rate Unit

CHAP	ΓER-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	50.40	0
	20 m as per Technical Specification Clause 1603.1	59.10	Cum
1-1-1-B	Extra for Every Additional Lift of 1.5 m or Part thereof	19.00	Cum
1-1-2	Excavation in Hilly Areas in Ordinary Rock by mechanical means not	10.00	Culli
	requiring blasting (With out Dozer)		
	Excavation in hilly area in ordinary rock not requiring blasting by		
	mechanical means without using Dozer including cutting and trimming	88.20	Cum
	of slopes and disposal of cut material with a lift upto 1.5 m and lead		
4.4.0	upto 20 m as per Clause 1603.2.		
1-1-3 1-1-3-A	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	258.40	0
	disposal of excavated rock upto a lead of 20 m as per Clause 1603.2.	256.40	Cum
1-1-3-B			
1-2	Extra for Every Additional Lift of 1.5 m or Part thereof Excavation in foundation for retaining, breast walls etc, in all types of soils	37.20	Cum
	and rocks including all lead, lift and disposal of surplus material as per		
	direction of engineer - in - charge, as per drawing and technical	287.90	Cum
	specifications Clause 305.1 of MORD Specifiction		
1-3	Random Rubble Stone Masonry laid Dry, in breast walls, retaining walls,		
	etc. including supply of all material, labour, T&P and royaltiles etc.		
	complete as per drawing and technical specifications Clauses 702, 704,	1,755.60	Cum
	1202 & 1203 of MORD Specifiction	1,7 33.00	Culli
4.4	P		
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		
	all material, labour, T&P and royaltiles etc. complete as per drawing and	3,147.00	Cum
	technical specifications Clauses 702, 704, 1202 & 1203 of MORD Specifiction		
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 per PWD Uttarakhand specifications)	681.40	Cum
1-6	Construction of coolie walling including apparent of all and a second		
	Construction of coolie walling including supply of all material, labour, T&P etc. required for proper completion of the work as per direction of Engineer-		
	in- charge. (As per PWD Uttarakhand specifications)	1,159.60	Cum
	o (a paramana specifications)		

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सहायक अभिन्यहर्गा अवस्थाः नोवनिवविव अवस्थाः (मृत-देवप्रयाग)

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PWD UTTARAKHAND

SCHEDULE OF RATES



SOR :- MISCELLANEOUS For Block 21 Devaprayag

Year :- FY. 2018-19

Effective From:-01-May-2018

	To Block 21 Bevaprayag	Effective Fron	1:-01-May-201
SI. No.	Description	Rate	Unit
1-7	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)		
1-7-1 1-7-2 1-8	GI wire 10 gauge BWG GI wire 8 gauge BWG Providing and Laying of Mechanically Woven Double Twisted Hexagonal shaped Gabions (Zinc plus PVC coated), of size 3mX1mX1m with two		Cum Cum
	diaphragms at 1m interval, having mesh opening 100mmx120 mm, mesh wire diameter 2.7mm/3.7mm, edge/selvedge wire diameter 3.4/4.4 mm and lacing wire diameter 2.2/3.2 mm. (The work includes filling boulders in the gabions).	7,264.70	No.
1-9	Providing and Laying of Mechanically Woven Double Twisted Hexagonal shaped Gabions of galvanized steel, of size 3mX1mX1m with two diaphragms at 1m interval, having mesh opening 100mmx120 mm, mesh wire diameter 3 mm for gabions, edge/selvedge wire diameter 3.9 mm and lacing wire diameter 2.2 mm. (The work includes filling boulders in the gabions).	7,446.50	No.
1-10 1-10-1	Clearance of land slides (Slip Clearance) 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 as directed by the Engineer-in-charge.	69.20	Cum
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-dozer) complete as directed by the Engineer-in-charge.	111.00	Cum
1-10-3	Slip clearance (by manual means) of loose earth and other small loose materials including disposal complete as directed by the Engineer-incharge.	172.50	Cum
1-10-4	Slip clearance (by manual means) of earth and boulders including disposal complete as directed by the Engineer-in-charge.	173.20	Cum
1-10-5	Slip clearance (by manual means) of boulders only including disposal complete as directed by the Engineer-in-charge.	185.40	Cum
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, width 200mm and height 300mm) as per Fig. 1600.1 (b) and Technical Specification Clause 1602.1 of MORD specifications.	50.90	No.

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सहायक अमियना अ०३०, लोगिगिविव अ०३० (५०-देवप्रयम्

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DETAILS OF MEASUREMENT

कार्य का नाम :- जनपद टिहरी गढ़वाल के विधान सभा क्षेत्र देवप्रयाग के अंतर्गत चौंडी से मदली-घटधार-थानकोट-घेरा होते हुए ग्राम सिमलासू बैंण्ड तक मोटर मार्ग का नव निर्माण कार्य । (लम्बाई 5.275 कि0मी0)।

Total quantity of Muck generated from road cutting 3.00 mt. cutting 1.50 mt. > 0.60 mt. 4.40 mt. Typical X-Section of Road 3.50 mt. R/W Forest Land as per Bar Chart & Forest Land transfer Proposal 776.00 mt. Length of road goes in Reserved forest B Length of road goes in Civil forest = 625.00 mt. 1401.00 mt. **Total Length**

	Total Length				,				
Cal	culation of Muck As Above Length								
	Quantity of muck generated from cutting	1	х	1/2	1401.00	4.40	3.00	9246.60	Cum.
2	Quantity of muck from scupper & catch pit								
A	Quantity of muck from scupper@ 8 Nos per Km.	8	х	1.40	4.40	3.00	2.80	414.25	Cum.
В	Quantity of muck from catch pit	8	х	1.40	(1.5x1.5	+2.1x2.1)/2	2.50	93.31	
	Quantity of muck from Sl No 1. & 2 as above.						G-Total	9754.16	Cum.
3	Taking E.B, O.R & H.R @ 50%, 20%, & 30% respectively								
i.	50% E.B	(9754.16	x	0.50	==		4877.08	
ii.	20% O.R.		9754.16	x	0.20	1=1		1950.83	
iii.	30% H.R.		9754.16	X	0.30	=		2926.25	_
						Total =		9754.16	Cum
4	Quantity of muck as swell factor of (E.B. only)	1.25	X		7.08		6096.35		
5	Quantity of total muck from point ii., iii., & 4		Sl. No (4	+iii+ii) =		10973.43			
	Quantity of total muck Generated				Say		10973.43	Cum.	
Dis	sposal & use of material								
1	Quantity used for super elevation, grade improvement & patrie filling of road @ 10% of (E.B. only)	= (6096.3	5 x 10/10	00)=			609.64		
2	Quantity erodes by wind and water @ 5% of (E.B. only)	= (6096.3	5 x 5/10	0) =		304.82			
3	Quantity of muck disposed in filling (retained by R/W) in 60% length	= (1401.0	00 x 1.50	x 2.50)/2	x 60%		1576.13		
4	Quantity of stones used Scuppers and catch pit @ 57.00 cum. Per no.	= 57.00 x	x 8.00 x 1401.00 = 638.86		Cum				
5	Quantity of stones used in R/W in 60% length	= 1401 x	110111 (0100 1110)		3456.97		-		
6	Quantity of stones used in Wire Crates for 3 dumping zones			r details		1154.25			
7	Quantity of stones used in side wall for 3 dumping zones		As pe	r details				Cum.	
	Total quantity of muck used at site including weathering by nature						7840.07	Cum.	
	Quantity of muck retained	-	109	73.43	-	7840.0	7 =	3133.30	Cum

निस्तारित की जाने वाली मलवे की मात्रा =

3133.36 C

Cum

अथवा

3133.00 Cum

इस प्रकार से उत्सर्जित मलवे का लगभग सम्पूर्ण उपयोग सतह की रिग्रेड़िंग 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 ड़ायग्राम में दर्शाया जा रहा है।

J.E.

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

Capacity of Dumping Yard

कार्य का नाम:-

जनपद टिहरी गढ़वाल के विधान सभा क्षेत्र देवप्रयाग के अंतर्गत चौंडी से भदली—घटधार—थानकोट—घेरा होते हुए ग्राम सिमलासू बैंण्ड तक मोटर मार्ग का नव निर्माण कार्य । (लम्बाई 5.275 कि0मी0)।

1. <u>Dumping Zone - No 1 (K.M. 2)</u>

35.00 mt x 6.00 mt x 7.50 mt

Plan of dumping zone 1.

Capecity Of Dumping Zone No. 1	2/3	35.00	6.00	7.50	1050.00 Cum
1 5			0.00	7.00	1000.00

2. <u>Dumping Zone - No 2 (K.M. 3)</u>

31.50 mt x 7.50 mt x 6.00 mt

Plan of dumping zone 2.

Capecity Of Dumping Zone No. 2	2/3	31.50	7.50	6.00	945.00 Cum

3. <u>Dumping Zone - No 3 (K.M. 5)</u>

40.00 mt x 6.50 mt x 7.50

Plan of dumping zone 3.

Capecity Of Dumping Zone No. 3	2/3	40.00	6.50	7.50	1300.00	Cum

Total quantity of muck retained by Dumping zone 1 to 3 Total 3 Nos as Per Photograph & coordinates

J.E.

Assistant Engineer Temp. Div. P.W.D. Kirtinagar = 3295.00 Cum.

	DETAILS O	F MEAS	UREME	TV		
कार्य	का नाम :- जनपद टिहरी गढ़वाल के विधान सभा है	भेत्र देवप्रयाग	के अंतर्गत चौंड	 हो से भदली—	घटधार–थानकोट	–घेरा होते हुए ग्राम
4714	सिमलासू बैंण्ड तक मोटर मार्ग का नव	निर्माण कार्य	(लम्बाई 5.27	5 कि0मी0)।		
.Nd	Item of work	No	L	W/B	H/D	Quantity
1 I	Excavation in foundation for retaining, breast walls etc,		f soils and roc			
1 2	and disposal of surplus material as per direction of engin	neer - in - cha	rge, as per dra	awing and te	chnical	
	specifications Clause 305.1 of MORD Specifiction					
5	Site No. 1 (K.M. 2)					21.00
	For Quantity for Wire Crates	1x 1/2	35.00	1.50	0.80	21.00 Cum.
	Site No. 2 (K.M. 3)					To
	For Quantity for Wire Crates	1x 1/2	31.50	1.50	0.80	18.90 Cum
	Site No. 3 (K.M. 5)					
+	For Quantity for Wire Crates	1x 1/2	40.00	1.50	0.80	24.00 Cum
\dashv					Total	63.90 Cum
2	Providing and laying of wire crates 3.00x1.50x1.50 in si	ize with GI w	rire conformir	ng to IS: 280	& IS:4826 in	•
2	150mm x 150mm mesh laid with stone boulders. as per	direction of I	Engineer-in- c	harge. (As p	er PWD	
	Uttarakhand specifications).GI wire 10 gauge BWG					
	Site No. 1 (K.M. 2)					
	Quantity for Wire Crates in 5 layers	1x 5	35.00	1.50	1.50	393.75 Cum
	Quantity for Wire Crates in side	1x 1	3.00	1.50	1.50	6.75 Cum
-	Site No. 2 (K.M. 3)					
	Quantity for Wire Crates in 4 layers	1x 4	31.50	1.50	1.50	283.50 Cum
-	Quantity for Wire Crates in side	1x 2	3.00	1.50	1.50	13.50 Cum
_	Site No. 3 (K.M. 5)	1/1/2				
	Quantity for Wire Crates in 5 layers	1x 5	40.00	1.50	1.50	450.00 Cum
			3.00	1.50	1.50	6.75 Cun
	Quantity for Wire Crates in side	1x 1	3.00	1.50		1154.25 Cur
					Total	1154.25 Cul
3	Construction of coolie walling including supply of all n	naterial, labo	ur, T&P etc. r	equired for	proper	
	completion of the work as per direction of Engineerin-	charge. (As p	er PWD Utta	rakhand spe	cifications)	
	Site No. 1 (K.M. 2)	T 1 2	7.00	1.00	3.50	49.00 Cun
	Quantity for Side wall	1x 2	7.00	1.00	3.30	49.00 Cui
	Site No. 2 (K.M. 3)		T 600	1 0.00		22.60 Cur
	Quantity for Side wall	1x 2	6.00	0.80	3.50	33.60 Cun
	Site No. 3 (K.M. 5)			T		
	Quantity for Side wall	1x 1	6.00	0.80	3.50	16.80 Cur
					Total	99.40 Cu
4	Land required area of Dumping point Sl No 1 to 3					
Ė	Site No. 1 (KM. 2)	1x 1	35.00	6.00		210.00 Sq
	Site No. 2 (K.M. 3)	1x 1	31.50	7.50		236.25 "
	Site No. 3 (K.M. 5)	1x 1	40.00	6.50		260.00 "
					Total	706.25 Squ
1					Say	0.0706 He 0.071 He

J.E.

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

BILL OF QUANTITY

Name of Work:- जनपद टिहरी गढ़वाल के विधान सभा क्षेत्र देवप्रयाग के अंतर्गत चौंडी से भदली—घटधार—थानकोट—घेरा होते हुए ग्राम सिमलासू बैंण्ड तक मोटर मार्ग का नव निर्माण कार्य । (लम्बाई 5.275 किं0मीं0)।

SI.No.	Item of work	Quantity	Unit	Rate	T Davi	
1	2	3	4	5	Per 6	Amount
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	63.90	Cum.	287.90	Cum.	18396.81
	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).GI wire 10 gauge BWG	1154.25	Cum.	1362.40	Cum.	1572550.20
	Construction of coolie walling including supply of all material, labour, T&P etc. required for proper completion of the work as per direction of Engineerin- charge. (As per PWD Uttarakhand specifications)	99.40	Cum.	1159.60	Cum.	115264.24
				Total		1706211.25

J.E.

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



आगणन की लागत का सारांश

कार्य का नाम:— जनपद टिहरी गढ़वाल के विधान सभा क्षेत्र देवप्रयाग के अंतर्गत चौंडी से भदली—घटधार—थानकोट—घेरा होते हुए ग्राम सिमलासू बैंण्ड तक मोटर मार्ग का नव निर्माण कार्य । (लम्बाई 5.275 कि0मी0)।

क्रम सॅ0	विवरण	लागत (रु०में)
1	जनपद टिहरी गढ़वाल के विधान सभा क्षेत्र देवप्रयाग के अंतर्गत चौंडी से भदली—घटधार—थानकोट—घेरा होते हुए ग्राम सिमलासू बैंण्ड तक मोटर मार्ग का नव निर्माण कार्य । (लम्बाई 5.275 कि0मी0)।	Rs.1,706,211.25
	Add (CGST 6% + SGST 6%) = Total GST 12%	Rs.204,745.35
	योग	Rs.1,910,956.60
	अर्थात लाख रू० में	Rs.19.11

कनिष्ठ अभियन्ता

अ0ख0, लो0नि0वि0 श्रीनगर मुख्यालय—कीर्तिनगर सहायक अभियन्ता

अ०ख०, लो०नि०वि० श्रीनगर मुख्यालय—कीर्तिनगर अधिशासी अभियन्ता

अ०ख०, लो०नि०वि० श्रीनगर मुख्यालय–कीर्तिनगर



Dumping Paint (1)



Dumping Point 2





To Me

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