

Muck Disposal Plan

52

Name of work :- Muck disposal Plan for Construction of Jajurali to Shahid Kishan Singh Village motor road (length =3.00 km)

Summary of Results

1 The quantity of material received from hill side cutting -=	16200.00 cum
(Sheet sttached on page no. 94 of Muck disposal estimate)	
2 The quantity of material used in various items =	15249.60 cum
(Sheet sttached on page no. 94 of Muck disposal estimate)	
3 The remaining quantity of muck for dumping i/c swell factor	950.40 cum
(Sheet sttached on page no. 94 of Muck disposal estimate)	
4 Numbers of dumping yards needed for the dumping of muck	
(i) In Civil Soyam Land =	5.00 Nos
(ii) In Nap Land =	nil Nos
(Sheet sttached on page no. 98 of Muck disposal estimate)	
5 Carring capacity of dumping yards with dimensions & coordinates	
Area in hect	0.048
Quantity	
(i) In Civil Soyam Land =	960.00 cum
(ii) In Nap Land =	0 cum
	960.00 cum
(Sheet sttached on page no. 95 of Muck disposal estimate)	
6 Land ownership Reports (Nap Land)	
(Sheet sttached on page no. 99 of Muck disposal estimate)	
7 Amount for Construction of Dumping Yards	
(i) In Civil Soyam Land =	10.76 Lacs
(ii) In Nap Land =	0 Lacs
(Sheet sttached on page no. 90 & 92 of Muck disposal estimate)	
8 Cost of Vegetation Plantation in Civil Soyam Land =	3.75 Lacs
(Sheet sttached on page no. 93 of Muck disposal estimate)	
9 Total Amount in Civil Soyam Land =	
(i) Cost of construction of dumping Yards =	10.76 Lacs
(ii) Cost of Vegetation Plantation =	3.75 Lacs
	Total 14.51
Add 2% for Incidental Charges	0.29
	Total 14.80


J.E.


A.E.


E.E.

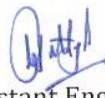
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Sr no	Discription of Item	Quantity	Unit	Remark
1	Material recived from hill site cutting 1/2x3000x3x3=	13500.00	cum	
2	add 20% for swell factor	2700.00	cum	
3	Total quantity for disposal	16200.00	cum	

Reuse and disposal of material

1	RR stone masonry laid in 1:6 cement and sand mortar for Retaining wall 25% of total material	4050.00	cum	
2	RR stone masonry laid dry for Breast wall 25% of total material	4050.00	cum	
3	Hand packed Stone filling Behind Retaing wall and Breast wall 30% of R/wall and breast=(a+b)x30%	2430.00	cum	
4	Construction of wire crate Total quantity used in Dumping yard	2160.00	cum	
5	Construction of parapet (1x100x3x3x0.4 5x0.60)=	162.00	cum	
6	Granular sub base (1x3x400x4.15x0.12)=	597.60	cum	
7	Improvement of Road grade (1x3x200x6x0.50)	1800.00	cum	
	Total material used	15249.60	cum	
	material disposed by cartage to dumping yards	950.40	cum	


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Name of work :- Muck disposal Plan for Construction of Jajurali to Shahid Kishan Singh Village motor road (length =3.00 km)

Details of Muck Disposal Yards with Land Owner Detail

Sr. no	Chainage	Name of Land owner	Land in Hect	Land in Sqm	Land area being used for dumping yard(sqm)	Latitude	Longitude
1	Ch. 0.00 to 0.100	Van Panchayat (Uttarakhand Govt.)	0.0210	210.00	210.00	29°37'4.72"N	80° 7'44.04"E
2	Ch. 0.450 to 0.470	Van Panchayat (Uttarakhand Govt.)	0.0060	60.00	60.00	29°37'1.63"N	80° 7'34.85"E
3	Ch. 0.830 to 0.860	Van Panchayat (Uttarakhand Govt.)	0.0075	75.00	75.00	29°37'7.25"N	80° 7'47.77"E
4	Ch. 1.900 to 2.000	Civil Soam (Uttarakhand Govt.)	0.0090	90.00	90.00	29°37'31.57"N	80° 8'13.49"E
5	Ch. 2.600 to 2.700	Civil Soam (Uttarakhand Govt.)	0.0045	45.00	45.00	29°37'6.95"N	80° 8'28.22"E
		Total	0.0480	480.0000	480.0000		


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Name of work :- Muck disposal Plan for Construction of Jajurali to Shahid Kishan Singh Village motor road (length = 3.00 km)

Summary of Debris disposal

Sr. no	Total debris	Reused material for road construction	Material disposed by Cartage	Total disposal in dumping zone	Balance debris
1	16200.00	15249.60	950.40	960.00	Nil

Location and quantity of debris for disposal

Sr. no	Location of dumping yards	Size of dumping yards	Type of land	Capacity of dumping yards	Remark
1	Ch. 0.00 to 0.100	70 x 2x3	Van Panchayat (Uttarakhand Govt.)	420.00	कुल अधिग्रहित वन भूमि की चौड़ाई = 9.00 मी०
2	Ch. 0.450 to 0.470	20 x 2x3	Van Panchayat (Uttarakhand Govt.)	120.00	मोटर मार्ग में प्रयुक्त वन भूमि की चौड़ाई = 6.00 मी०
3	Ch. 0.830 to 0.860	25 x 2x3	Van Panchayat (Uttarakhand Govt.)	150.00	मलवा निस्तारण हेतु प्रयुक्त वन भूमि की चौड़ाई = 9.00-6.00 = 3.00 मी०
4	Ch. 1.900 to 2.000	30 x 2x3	Civil Soam (Uttarakhand Govt.)	180.00	
5	Ch. 2.600 to 2.700	15 x 2x3	Civil Soam (Uttarakhand Govt.)	90.00	
		160	Total	960.00	


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Analysis of Rates

Name of Work :- Muck disposal Plan for Construction of Jajurali to Shahid Kishan Singh Village motor road (length =3.00 km)

Name		Road & Bridge Uttarakhand	Year		2013-2014
Rate Card		Block 56 Pithoragarh (Munakot)	Effective Date		16/05/2014
1	11-1-1-1	Excavation in foundation for structure as per drawing and technical specification clause 305.1 including setting out construction of shorting and bracing, removal of stumps and other deleterious material and disposal up to 50mt, dressing of sides and bottom and backfilling in trenches with excavated material(ref 11.20-300)			
			Cum	237.50	Cum
2	16-9-1-2	Providing and laying of boulder apron laid in wire crates with 4mm dia G.I. Wire conforming to IS : 280 & IS : 4826 in 100mm x 100mm mesh (woven diagonally) including 10% extra for laps and joints laid with stone boulders weighting not less than 25 Kg each as per drawing and technical specification of MoRD and as directed by Engineer in charge.			
			No	10011.50	No
			Say	1483.19	Cum
3		Vegitative Plantation	Cum	756.10	Cum


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Detail of Measurement

Name of Work :- Muck disposal Plan for Construction of Jajurali to Shahid Kishan Singh Village motor road (length = 3.00 km)

S. No.	Item	No	L (m)	B(m)	H(m)	QTY
1	Excavation in foundation for structure as per drawing and technical specification clause 305.1 including setting out construction of shorting and bracing, removal of stumps and other deleterious material and disposal up to 50mt, dressing of sides and bottom and backfilling in trenches with excavated material(ref 11.20-300)					
	Ch. 0.00 to 0.100	1x1/2	70.00	1.50	0.30	15.75 cum.
	Ch. 0.450 to 0.470	1x1/2	20.00	1.50	0.30	4.50 cum.
	Ch. 0.830 to 0.860	1x1/2	25.00	1.50	0.30	5.63 cum.
	Ch. 1.900 to 2.000	1x1/2	30.00	1.50	0.30	6.75 cum.
	Ch. 2.600 to 2.700	1x1/2	15.00	1.50	0.30	3.38 cum.
					G.Total	36.01 cum.
2	Providing and laying of boulder apron laid in wire crates with 4mm dia G.I. Wire conforming to IS : 280 & IS : 4826 in 100mm x 100mm mesh (woven diagonally) including 10% extra for laps and joints laid with stone boulders weighting not less than 25 Kg each as per drawing and technical specification of PWD and as directed by Engineer in charge.					
	Ch. 0.00 to 0.100	1x2	70.00	1.50	1.50	315.00 cum.
	Ch. 0.450 to 0.470	1x2	20.00	1.50	1.50	90.00 cum.
	Ch. 0.830 to 0.860	1x2	25.00	1.50	1.50	112.50 cum.
	Ch. 1.900 to 2.000	1x2	30.00	1.50	1.50	135.00 cum.
	Ch. 2.600 to 2.700	1x2	15.00	1.50	1.50	67.50 cum.
					G.Total	720.00 cum.
3	Vegetation Plantation .					


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Bill of Quantity

Name of Work :- Muck disposal Plan for Construction of Jajurali to Shahid Kishan Singh Village motor road (length =3.00 km)

Sl. No	Item of work	Quantity	Unit	Rate	Amount
1	Excavation in foundation for structure as per drawing and technical specificastion clause 305.1 including setting out construction of shorting and bracing, removal of stumps and other deleterious material and disposal up to 50mt,dressing of sides and bottom and backfilling in trenches with excavated material(ref 11.20-300)	36.01	cum.	237.50	8552.38
2	Providing and laying of boulder apron laid in wire crates with 4mm dia G.I. Wire conforming to IS : 280 & IS : 4826 in 100mm x 100mm mesh (woven diagonally) including 10% extra for laps and joints laid with stone boulders weighting not less than 25 Kg each as per drawing and technical specification of PWD and as directed by Engineer in charge.	720.00	cum.	1483.19	1067896.80
				Total	1076449.18
3	Vegetation Plantation .	1.00	Job	375000.00	375000.00
				Total	1451449.18
	Add 2% for Incidental Charges				29028.98
				Total	1480478.16


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पिथौरागढ़ वन प्रभाग

Summary of Estimated Cost

Name of Work :- Muck disposal Plan for Construction of Jajurali to Shahid Kishan Singh Village motor road (length =3.00 km)

S.No.	Description	Amount In Lacs
1-	Muck disposal for Construction of Jajurali to Shahid Kishan Singh Village motor road	1480478.16
	Total	1480478.16
	Say	14.80 Lacs


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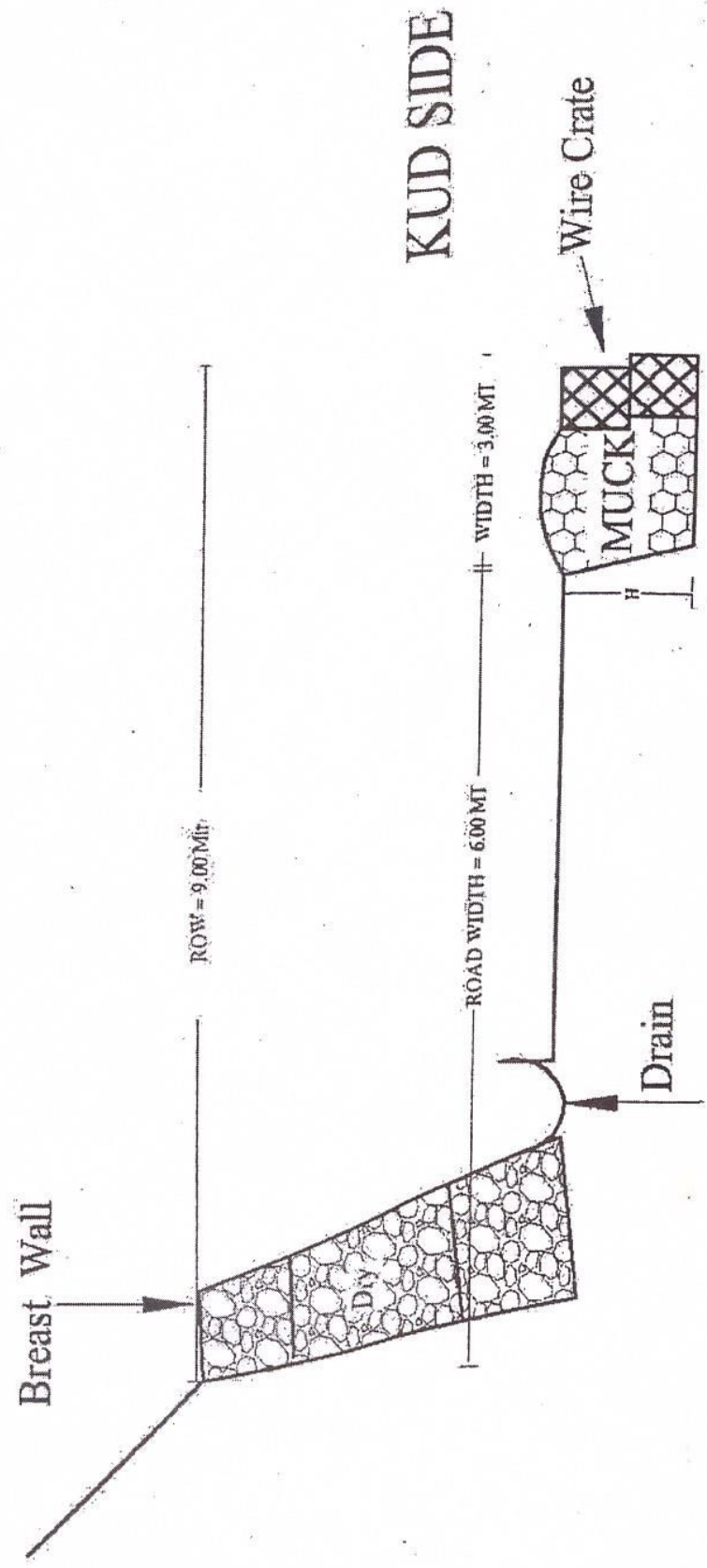

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पिथौरागढ़ नगर प्रभाग

Name of work:- Muck disposal Plan for Construction of Jajurali to Shahid Kishan Singh Village motor road (length = 3.00 km)

PROPOSAL PLAN FOR MUCK DUMPING

HILL SIDE

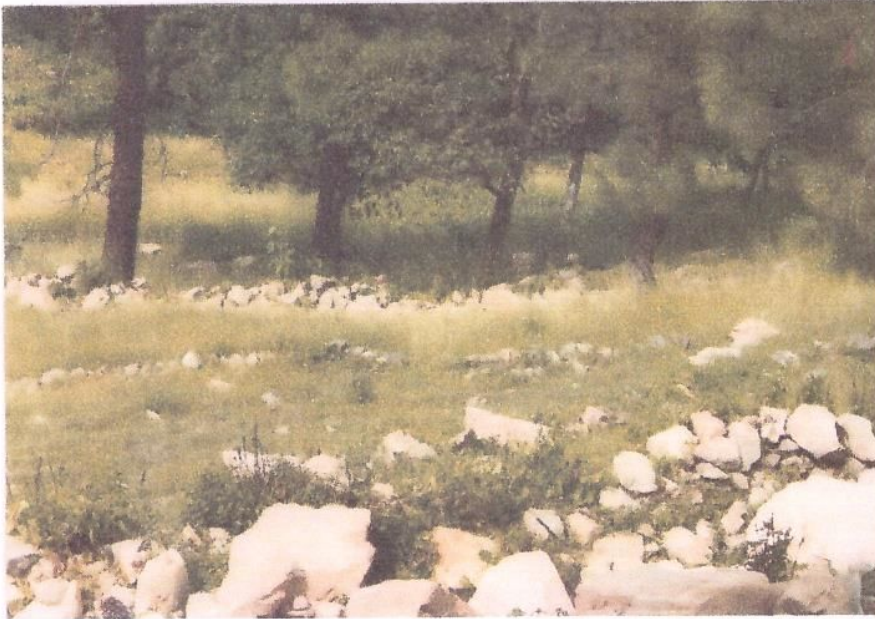


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कार्य का नाम :- जिला योजना के अन्तर्गत जजुराली तक शहीद किशन सिंह के गांव तक मोटर मार्ग का निर्माण।



(Muck Point Photo)

KM 1

Ch. 0.00 To 0.100

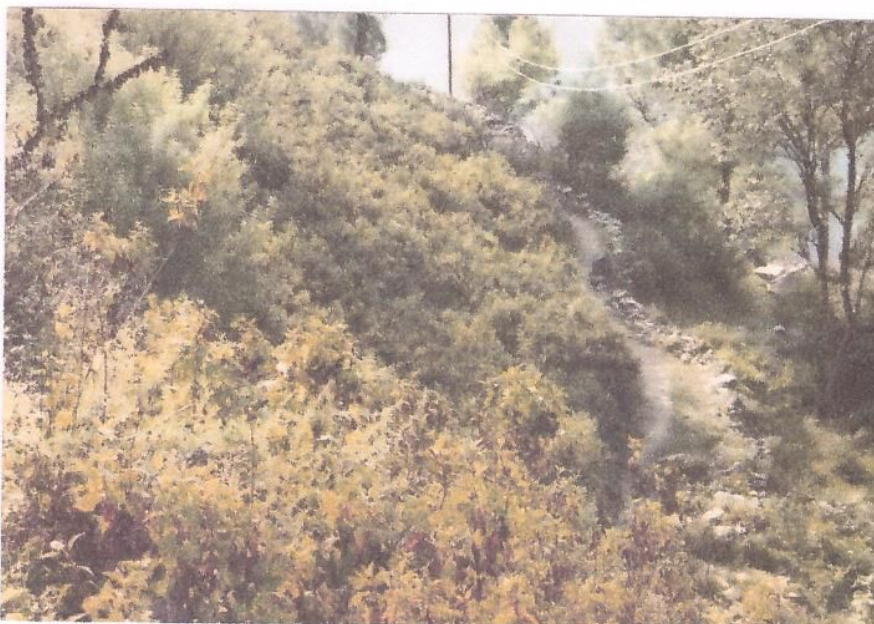
Point 1



KM 1

Ch. 0.450 To 0.470

Point 2



बनाया गया अधिकारी
निरीक्षण के द्वारा

KM 1

Ch. 0.830 To 0.860

Point 3

बनाया गया अधिकारी
निरीक्षण के द्वारा

बनाया गया अधिकारी
निरीक्षण के द्वारा

Ch

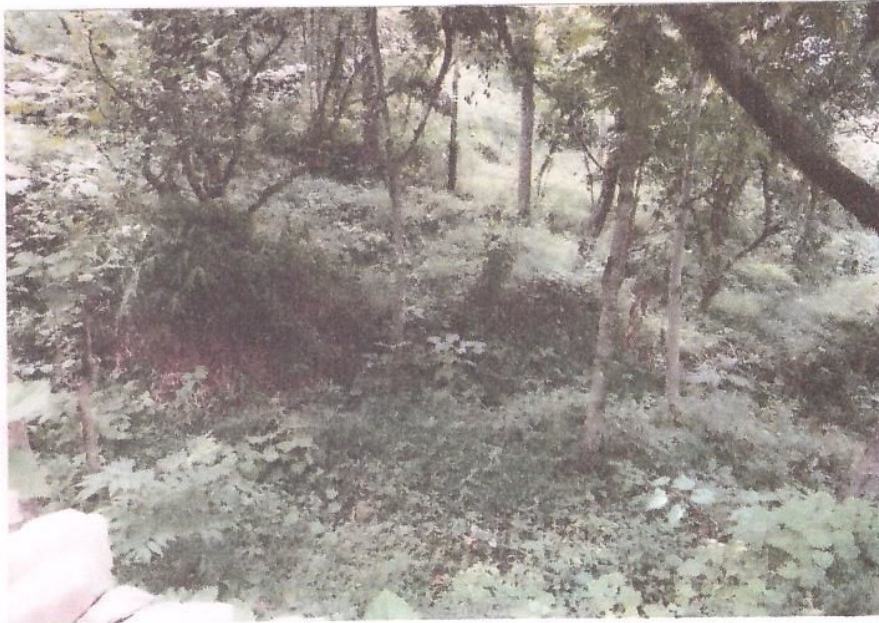
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(Muck Point Photo)



KM 2.00
Ch. 1.900 To 2.00

Point 4



KM 3.00
Ch. 2.00 To 2.700

Point 5

प्रभागीय वन अधिकारी
विशौरागढ़ वन प्रभाग

J.E.

A.E.

वन द. अधिकारी
विशौरागढ़