

Specifications

**Name of work :- Muck disposal Plan for Construction of Barabe Undana Fusarhali
Kharkgair motor road (length =2.00 km)**

All the works shall be carried out as per detailed specifications of Public Works Department (Uttarakhand) and circulars issued by the Chief Engineer from time to time.



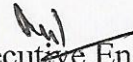
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P.D.PWD Pithoragarh



Assistant Engineer

P.D.PWD, Pithoragarh



Executive Engineer


P.D.PWD Pithoragarh


Name of work :- Muck disposal Plan for Construction of Barabe -Undana-
Fusarkhali- Kharkgair motor road (length =2.00 km)


Sr no	Discription of Item	Quantity	Unit	Remark
1	Material recived from hill site cutting 1/2x2000x3x3=	9000.00	cum	
2	add 20% for swell factor	1800.00	cum	
3	Total quantity for disposal	10800.00	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	2700.00	cum	
2	RR stone masonry laid dry for Breast wall 25% of total material	2700.00	cum	
3	Hand packed Stone filling Behind Retaing wall and Breast wall 30% of R/wall and breast=(a+b)x30%	1620.00	cum	
4	Construction of wire crate Total quantity used in Dumping yard	1530.00	cum	
5	Construction of parapet (1x100x3x3x0.4 5x0.60)=	108.00	cum	
6	Granular sub base (1x3x400x4.15x0.12)=	398.40	cum	
7	Improvement of Road grade (1x3x200x6x0.50)	1200.00	cum	
	Total material used	10256.40	cum	
	material disposed by cartage to dumping yards	543.60	cum	



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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 0.125	State forest land (Uttarakhand Govt.)	0.0240	240.00	240.00	29°30'30.36"N 80°13'47.34"E	
2	Ch. 0.250 to 0.425	State forest land (Uttarakhand Govt.)	0.0270	270.00	270.00	29°30'23.97"N 80°13'42.82"E	
		Total	0.0510	510.0000	510.0000		


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Muck Disposal Plan

Name of work :- Muck disposal Plan for Construction of Barabe -Undana- Fusarkhali- Kharkgair motor road (length =2.00 km)

Summary of Results

1 The quantity of material received from hill side cutting =	10800.00 cum
(Sheet sttached on page no. 94 of Muck disposal estimate)	
2 The quantity of material used in various items =	10256.40 cum
(Sheet sttached on page no. 94 of Muck disposal estimate)	
3 The remaining quantity of muck for dumping i/c swell factor	543.60 cum
(Sheet sttached on page no. 94 of Muck disposal estimate)	
4 Numbers of dumping yards needed for the dumping of muck	
(i) In state forest land =	2.00 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	0.051
Quantity	
In state forest land =	680.00 cum
(ii) In Nap Land =	0 cum
	680.00 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 state forest land =	11.44 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 =	11.44 Lacs
(ii) Cost of Vegetation Plantation =	3.75 Lacs
	Total 15.19
Add 2% for Incidental Charges	0.30
	Total 15.49

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J.E.

प्रभागीय वन अधिकारी
विधौरागढ़ वन प्रभाग
पिथौरागढ़

A.E.

सहायक अभियन्ता
प्रमाणित विधौरागढ़

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अधिशामी अभियन्ता
पा० ख० ल० नि० वि०
पिथौरागढ़


Name of work :- Muck disposal Plan for Construction of Barabe -Undana- Fusarkhali- Khar'kgair motor road (length =2.00 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	10800.00	10256.40	543.60	680.00	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 0.125	80 x2x2	State forest land (Uttarakhand Govt.)	320.00	कुल अधिग्रहित वन भूमि की चौड़ाई = 9.00 मी०
2	Ch. 0.250 to 0.425	90 x2x2	State forest land (Uttarakhand Govt.)	360.00	मोटर मार्ग में प्रयुक्त वन भूमि की चौड़ाई = 6.00 मी०
		170	Total	680.00	


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Name of work :- Muck disposal Plan for Construction of Maad Marsoli motor road (length =2.00 km)

PROPOSAL PLAN FOR MUCK DUMPING

HILL SIDE

Breast Wall

ROW = 9.00 MT.

ROAD WIDTH = 6.00 MT

WIDTH = 3.00 MT.

KUUD SIDE

Wire Crate

Drain

MUCK

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Analysis of Rates

Name of work :- Muck disposal Plan for Construction of Barabe Undana Fusarhali Kharkgair motor road (length =2.00 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	2756.10	Cum

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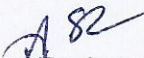
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Detail of Measurement

Name of work :- Muck disposal Plan for Construction of Barabe -Undana- Fusarkhali- Kharkgair motor road (length =2.00 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 0.125	1x1/2	80.00	1.50	0.30	18.00 cum.
	Ch. 0.250 to 0.425	1x1/2	90.00	1.50	0.30	20.25 cum.
					G.Total	38.25 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 0.125	1x2	80.00	1.50	1.50	360.00 cum.
	Ch. 0.250 to 0.425	1x2	90.00	1.50	1.50	405.00 cum.
					G.Total	765.00 cum.
3	Vegitation Plantation .					


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Bill of Quantity


**Name of work :- Muck disposal Plan for Construction of Barabe -Undana- Fusarkhali-
Kharkgair motor road (length =2.00 km)**


Sl. No	Item of work	Quantity	Unit	Rate	Amount
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)	38.25	cum.	237.50	9084.38
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.	765.00	cum.	1483.19	1134640.35
				Total	1143724.73
3	Vegetation Plantation .	1.00	Job	375000.00	20000.00 375000.00
				Total	1518724.73
	Add 2% for Incidental Charges				102930374.49
				Total	1549099.22

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Summary of Estimated Cost


Name of work :- Muck disposal Plan for Construction of Barabe -Undana-
Fusarkhali- Kharkgair motor road (length =2.00 km)

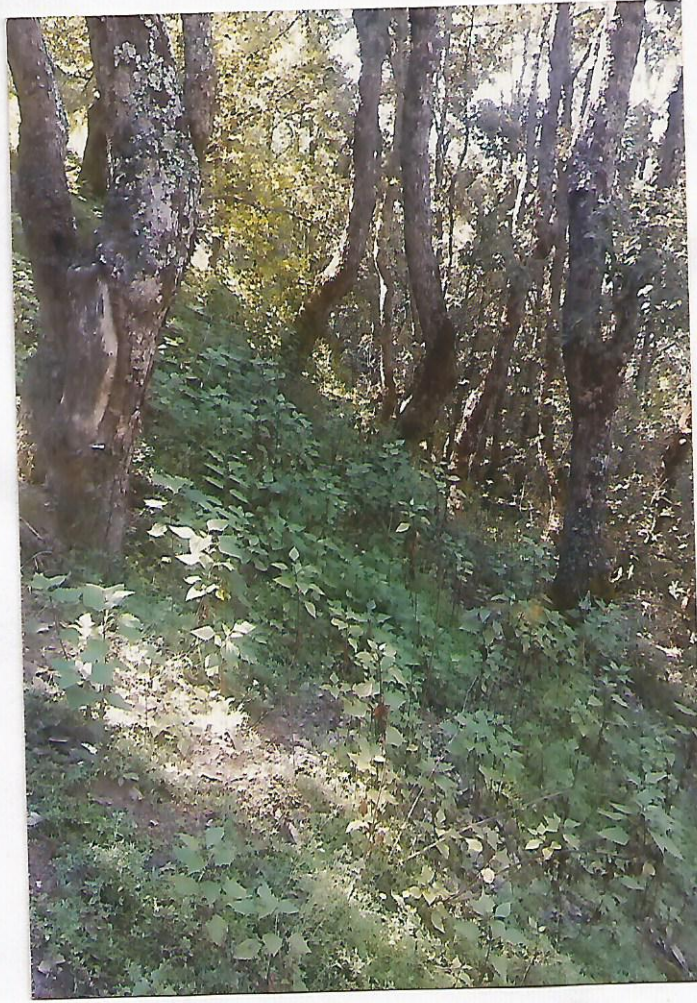
S.No.	Description	Amount In Lacs		
1-	Muck disposal for Construction of Jajurali to Shahid Kishan Singh Village motor road	1549099.22		
	Total	1549099.22		
	Say	15.49	Lacs	


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सहायक उच्च शिक्षण

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प्रा० ख० लो० नि० वि०