

UTTARAKHAND

LOK NIRMAN VIBHAG

3rd CIRCLE P.W.D. PITHORAGARH

PROVINCIAL DIVISION P.W.D

PITHORAGARH

Name Of Work : Muck Disposal Plan For Construction Of Chandak to Dhari Motar Road State Sector (length 4.200km)

ESTIMATED COST 107.85 LAC

LIST OF OFFICERS

Sl. NO.	NAME	DESIGNATION	FULL SIGNATURE
1	Er. Shaloo Prajapati	J. Engineer	 20/8
3	Er. D.C. Joshi	Asstt. Engineer	 20/8
4	Er. Vandana Rawat	Jr. Engineer (T)	 20/8/2021
5	Er. K.C. Joshi	Executive. Engineer	 7/9/2021

Specifications

**Name Of Work : Muck Disposal Plan For Construction Of Chandak to Dhari Motar Road
State Sector (length 4.200km)**

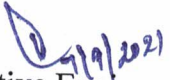
All the works shall be carried out as per detailed specifications of Public Works Department (Uttarakhand) and circulars issued by the Chief Engineer from time to time.


(Shaloo Prajapati)
Junior Engineer

P.D.PWD Pithoragarh


(G. D. Singh)
Assistant Engineer

P.D.PWD, Pithoragarh


Executive Engineer

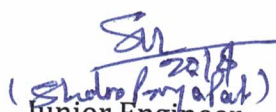
P.D.PWD Pithoragarh

**Name Of Work : Muck Disposal Plan For Construction Of Chandak to Dhari
Motar Road State Sector (length 4.200km)**

Sr no	Discription of Item	Quantity	Unit	Remark
1	Material recived from hill site cutting 1/2x4200x3x3=	18900.00	cum	
2	add 40% for swell factor	7560.00	cum	
3	Total quantity for disposal	26460.00	cum	

Reuse and disposal of material

1	RR stone masonry laid in 1:6 cement and sand mortar for Retaining wall 18% of total material	4762.80	cum	
2	RR stone masonry laid dry for Breast wall 18% of total material	4762.80	cum	
3	Hand packed Stone filling Behind Retaing wall and Breast wall 18% of R/wall and breast=(a+b)x18%	857.30	cum	
4	Construction of wire crate Total quantity used in Dumping yard	3276.00	cum	
5	Construction of parapet (1x100x4x4x0.4 5x0.60)=	432.00	cum	
6	Granular sub base (4x1x400x4.15x0.12)=	796.80	cum	
7	Improvement of Road grade (1x4x150x6x0.50)	1800.00	cum	
	Total material used	16687.70	cum	
	maternal disposed by cartage to dumping yards	9772.30	cum	


 (Shobhraj Singh)
 Junior Engineer
 Pro. Div. P.W.D
 Pithoragarh


 (Er. D. C. Joshi)
 Assistant Engineer
 Pro. Div. P.W.D
 Pithoragarh


 Executive Engineer
 Pro. Div. P.W.D
 Pithoragarh

Name Of Work : Muck Disposal Plan For Construction Of Chandak to Dhari Motar Road State Sector (length 4.200km)

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. 2.050 to 2.239	State forest land (Uttarakhand Govt.)	0.0567	567.00	567.00	29°35'28.67"N	80°10'43.94"E
2	Ch. 2.350 to 2.572	State forest land (Uttarakhand Govt.)	0.0666	666.00	666.00	29°35'27.68"N	80°10'41.82"E
3	Ch. 2.975 to 4.221	State forest land (Uttarakhand Govt.)	0.0738	738.00	738.00	29°35'30.32"N	80°10'36.95"E
4	Ch.3.350 to 3.566	State forest land (Uttarakhand Govt.)	0.0648	648.00	648.00	29°35'39.81"N	80°10'24.23"E
5	Ch.3.855 to 4.074	State forest land (Uttarakhand Govt.)	0.0657	657.00	657.00	29°35'31.77"N	80°09'16.34"E
		Total	0.3276	3276.0000	3276.0000		


 Junior Engineer
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Name Of Work : Muck Disposal Plan For Construction Of Chandak to Dhari Motar Road State Sector (length 4.200km)

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	26460.00	16687.70	9772.30	9828.00	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. 2.050 to 2.239	189.00 x3x3	State forest land (Uttarakhand Govt.)	1701.00	कुल अधिग्रहित वन भूमि की चौड़ाई = 9.00 मी०
2	Ch. 2.350 to 2.572	222.00 x3x3	State forest land (Uttarakhand Govt.)	1998.00	मोटर मार्ग में प्रयुक्त वन भूमि की चौड़ाई = 6.00 मी०
3	Ch. 2.975 to 4.221	246.00 x3x3	State forest land (Uttarakhand Govt.)	2214.00	कुल अधिग्रहित वन भूमि की चौड़ाई = 9.00 मी०
4	Ch.3.350 to 3.566	216.00 x3x3	State forest land (Uttarakhand Govt.)	1944.00	मोटर मार्ग में प्रयुक्त वन भूमि की चौड़ाई = 6.00 मी०
5	Ch.3.855 to 4.074	219.00 x3x3	State forest land (Uttarakhand Govt.)	1971.00	मोटर मार्ग में प्रयुक्त वन भूमि की चौड़ाई = 6.00 मी०
		1092	Total	9828.00	

(Signature)
Junior Engineer

Pro. Div. P.W.D
Pithoragarh

(Signature)
Assistant Engineer

Pro. Div. P.W.D
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(Signature)

Executive Engineer
Pro. Div. P.W.D
Pithoragarh

Muck Disposal Plan

Name Of Work : Muck Disposal Plan For Construction Of Chandak to Dhari Motar Road State Sector
(length 4.200km)

Summary of Results

1 The quantity of material received from hill side cutting -= (Sheet attached on page no. of Muck disposal estimate)	26460.00 cum
2 The quantity of material used in various items =	16687.70 cum
3 The remaining quantity of muck for dumping i/c swell factor (Sheet attached on page no. of Muck disposal estimate)	9772.30 cum
4 Numbers of dumping yards needed for the dumping of muck (i) In state forest land = (ii) In Nap Land = (Sheet attached on page no. of Muck disposal estimate)	4.00 Nos nil Nos
5 Carrying capacity of dumping yards with dimensions & coordinates Area in hect 0.328 In state forest land = (ii) In Nap Land = (Sheet attached on page no. of Muck disposal estimate)	Quantity 9828.00 cum 0 cum 9828.00 cum
6 Land ownership Reports (Nap Land) (Sheet attached on page no. of Muck disposal estimate)	
7 Amount for Construction of Dumping Yards (i) In state forest land = (ii) In Nap Land = (Sheet attached on page no. of Muck disposal estimate)	101.53 Lacs 0 Lacs
8 Cost of Vegetation Plantation in Civil Soyam Land = (Sheet attached on page no. of Muck disposal estimate)	4.20 Lacs
9 Total Amount in Civil Soyam Land = (i) Cost of construction of dumping Yards = (ii) Cost of Vegetation Plantation =	101.53 Lacs 4.20 Lacs
Add 2% for Incidental Charges	Total 105.73 2.11 Total 107.84

(S. K. Singh)
J.E.

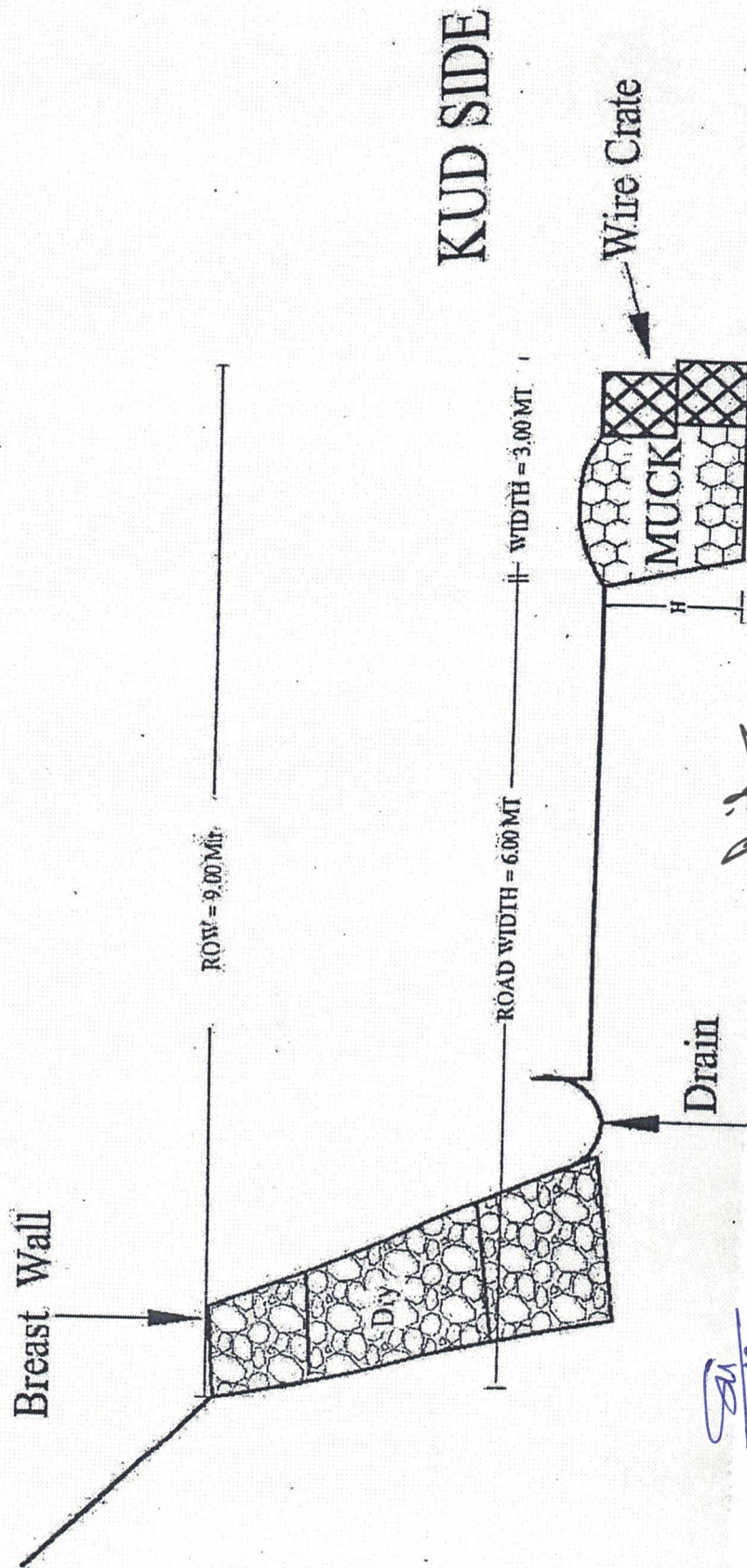
(D.C. Joshi)
28.08.21
पिपरी

(B. D. C. Joshi)
A.E.

(E.E.)
27/9/2021

Name Of Work : Muck Disposal Plan For Construction Of Chandak to Dhari Motar Road State Sector (length 4.200km)

HILL SIDE PROPOSAL PLAN FOR MUCK DUMPING



KUD SIDE

Executive Engineer
Pro. Div. P.W.D
Pithoragarh

Assistant Engineer
Pro. Div. P.W.D
Pithoragarh

Junior Engineer
Pro. Div. P.W.D
Pithoragarh

Analysis of Rates

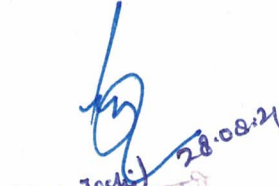
Name Of Work : Muck Disposal Plan For Construction Of Chandak to Dhari Motar Road State Sector (length 4.200km)

Name		SOR :- MISCELLANEOUS	Year		2021-2022
Rate Card		Block 55 Pithoragarh (Bin)	Effective Date		05-01-2021
1	1-2	Excavation in Foundation for retaining, breast wall etc. in all type of soil 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 specification			
			Cum	389.60	cum
2	1-7-1	Twisted Hexagonal shaped Gabions (Zinc plus PVC coated), of size 3mX1mX1m with two 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).			
			Cum	3079.77	cum
		GI wire 10 Gauge BWG			
3		Vegitative Plantation	km	100000.00	km


 Junior Engineer
 Pro. Div. P.W.D.
 Pithoragarh


 Assistant Engineer
 Pro. Div. P.W.D.
 Pithoragarh


 Executive Engineer
 Pro. Div. P.W.D.
 Pithoragarh


 (D.C. Joshi) 28.08.21
 जन. व. स. कार्यालय
 पितौरागढ़

Detail of Measurement

Name Of Work : Muck Disposal Plan For Construction Of Chandak to Dhari Motar Road State Sector (length 4.200km)

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. 2.050 to 2.239	1x1/2	189.00	1.00	0.30	28.35	cum.
	Ch. 2.350 to 2.572	1x1/2	222.00	1.00	0.30	33.30	cum.
	Ch. 2.975 to 4.221	1x1/2	246.00	1.00	0.30	36.90	cum.
	Ch.3.350 to 3.566	1x1/2	216.00	1.00	0.30	32.40	cum.
	Ch.3.855 to 4.074	1x1/2	219.00	1.00	0.30	32.85	cum.
					G.Total	163.80	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. 2.050 to 2.239	1x2	189.00	1.00	1.50	567.00	cum.
	Ch. 2.350 to 2.572	1x2	222.00	1.00	1.50	666.00	cum.
	Ch. 2.975 to 4.221	1x2	246.00	1.00	1.50	738.00	cum.
	Ch.3.350 to 3.566	1x2	216.00	1.00	1.50	648.00	cum.
	Ch.3.855 to 4.074	1x2	219.00	1.00	1.50	657.00	cum.
					G.Total	3,276.00	cum.
3	Vegitation Plantation .					4.2	job


 (Shaloo Prasad)
 Junior Engineer
 Pro. Div. P.W.D
 Pithoragarh

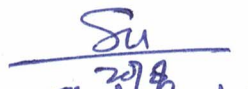

 (D.C. Joshi)
 Assistant Engineer
 Pro. Div. P.W.D
 Pithoragarh
 28.08.21


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 Assistant Engineer
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 Pithoragarh

Bill of Quantity

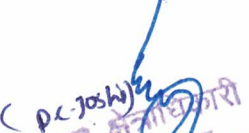
**Name Of Work : Muck Disposal Plan For Construction Of Chandak to Dhari Motar Road
State Sector (length 4.200km)**

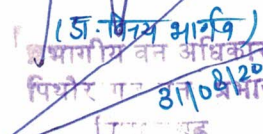
Sl. No	Item of work	Quantity	Unit	Rate	Amount
1	Excavation in foundation for structure as per drawing and technical specificastion clause 305.1 including setting out construction of shorting and bracing, removal of stumps and other deleterious material and disposal up to 50mt,dressing of sides and bottom and backfilling in trenches with excavated material(ref 11.20-300)	163.80	cum.	389.60	63816.48
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.	3,276.00	cum.	3079.77	10089326.52
				Total	10153143.00
3	Vegetation Plantation .	4.200	Job	100000.00	420000.00
				Total	10573143.00
	Add 2% for Incidental Charges				211462.86
				Total	10784605.86


 (S. S. Joshi)
 Junior Engineer
 Pro. Div. P.W.D.
 Pithoragarh


 (E. D. C. Joshi)
 Assistant Engineer
 Pro. Div. P.W.D.
 Pithoragarh


 Executive Engineer
 Pro. Div. P.W.D.
 Pithoragarh


 (P.C. Joshi)
 28-8-21


 (J. K. Joshi)
 31/08/2021

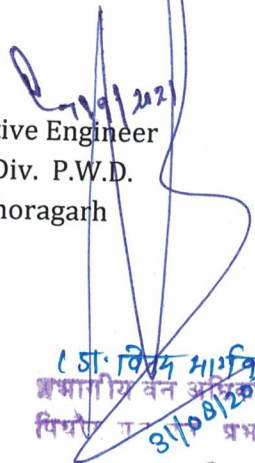
Summary of Estimated Cost

Name Of Work : Muck Disposal Plan For Construction Of Chandak to Dhari
Motar Road State Sector (length 4.200km)

S.No.	Description	Amount In Lacs	
1-	Muck disposal Plan for Construction of Chandak to Dhari motor road under state sector	10784605.86	
	Total	10784605.86	
	Say	107.85	Lacs


20/8/21
(Shalwajyale)
Junior Engineer
Pro. Div. P.W.D.
Pithoragarh


20/8/21
(D.C. Joshi)
Assistant Engineer
Pro. Div. P.W.D.
Pithoragarh


20/8/21
Executive Engineer
Pro. Div. P.W.D.
Pithoragarh

(D.C. Joshi)
20/08/21

(D.C. Joshi)
31/08/2021