### **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 Sukoli-Gankot-Rawalgaon Motar Road State Sector (length 1.750km)

ESTIMATED COST 14.97 LAC

### LIST OF OFFICERS

SI. NO.	NAME	DESIGNATION	FULL SIGNATURE
1	Er. H.C. Joshi	J. Engineer	Wa
3	Er. D.S. Boora	Asstt. Engineer	(/_
4	Er. H. Bhandari	Jr.Engineer (T)	9
5	Er. N. C. Joshi	Executive.Engineer	1

### **Specifications**

Name Of Work : Muck Disposal Plan For Construction Of Sukoli-Gankot-Rawalgaon Motar Road State Sector (length 1.750km)

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.

Junior Engineer

Assistant Engineer

Executive Engineer

P.D.PWD Pithoragarh

P.D.PWD, Pithoragarh

P.D.PWD Pithoragarh

### Name Of Work: Muck Disposal Plan For Construction Of Sukoli-Gankot-Rawalgaon Motar Road State Sector (length 1.750km)

Sr no	Discription of Item	Quantity	Unit	Remark
	Material recived from hill site cutting			
1	1/2x1750x3x3=	7875.00	çum	
2	add 40% for swell factor	3150.00	cum	
3	Total quantity for disposal	11025.00	cum	

Reuse and disposal of material

	nouse and an	posai of material	
1	RR stone masonry laid in 1:6 cement and sand mortar for Retaining wall 20% of total material	2205.00 cum	
2	RR stone masonry laid dry for Breast wall 20% of total material	2205.00 cum	
3	Hand packed Stone filling Behind Retaing wall and Breast wall 15% of R/wall and breast=(a+b)x15%	330.75 cum	
4	Construction of wire crate Total quantity used in Dumping yard	927.00 cum	
5	Construction of parapet $(1x200x5x3x0.45x0.60)=$	1944.00 cum	
6	Granular sub base (1x5x125x4.15x0.12)=	1120.50 cum	
7	Improvement of Road grade (1x5x100x6x0.50)	1500.00 cum	
	Total material used materal disposed by cartage to	10232.25 cum	
	dumping yards	792.75 cum	

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

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 Sukoli-Gankot-Rawalgaon Motar Road State Sector (length 1.750km)

# 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 550to 0 578	Ch. 0 550to 0 578 State forest land (litterakhand Govt.)	0.0056	26.00	56.00	29°34'36.939"N 80°10'47.016"E	80°10'47.016"E
	CII. 0.330t0 0.370	State for est faire ( State areas					
2	100000000000000000000000000000000000000	Characteristic Characteristic (11)	0.0050	20.00	50.00	29°34'26.963"N 80°10'41.652"E	80°10'41.652"E
	Cn. 0.700to 0.725	State 101 est Janu Octai annaila dore					
3		State forest land (Illtarakhand Govt.)	09000	60.00	60.00	29°34'9.652"N	80°10'27.609"E
	Cn.1.190to 1.217	State 101 est latin (Ottal antiquia act e)					
4		Sents Forest land (Iltarakhand Govt)	0.0040	40.00	40.00	29°34'7.382"N	80°10'17.346"E
	Cn.1.450t0 1.470	State 101 est jailla (ottal aminina ast e)	1000	4-	0000 300		
		Total	0.0206	700.000	7000007		

Junior Engineer Pro. Div. P.W.D

Pithoragarh

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

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

### **Muck Disposal Plan**

### (6,

Name Of Work : Muck Disposal Plan For Construction Of Sukoli-Gankot-Rawalgion Motar Road State Sector (length 1.750km)

### **Summary of Results**

1 The quan	tity of material received from hill side	cutting -=		11025.00 cum
(Sheet stt	ached on page no. <b>62</b> of Muck disposal esti	imate )		
2 The quan	tity of material used in various items =			10232.25 <b>cum</b>
(Sheet stt	ached on page no. <b>62</b> of Muck disposal esti	imate )		
3 The rema	ining quantity of muck for dumping i/o	swell factor		792.75 <b>cum</b>
(Sheet stta	ached on page no. <b>62</b> of Muck disposal esti	imate )		
4 Numbers	of dumping yards needed for the dump	oing of muck		
(i) In stat	e forest land =			4.00 <b>Nos</b>
(ii) In Na <sub>l</sub>	Land =			nil <b>Nos</b>
(Sheet stta	ached on page no. <b>63</b> of Muck disposal esti	mate)		
5 Carring c	apacity of dumping yards with dimensi	ons & coordinates		
		Area in hect	0.021	Quantity
In state fo	rest land =			800.00 cum
(ii) ln Na <sub>l</sub>	Land =			0 cum
				800.00 cum
(Sheet stta	ached on page no. <b>65</b> of Muck disposal esti	mate )		
6 Land own	ership Reports (Nap Land)			
(Sheet stta	iched on page no. <b>63</b> of Muck disposal esti	mate )		
7 Amount f	or Construction of Dumping Yards			
(i) In state	e forest land =			14.49 <b>Lacs</b>
(ii) ln Nap	Land =			0 Lacs
(Sheet stta	ched on page no.71 & 72 of Muck disposa	al estimate )		
8 Cost of Ve	getation Plantation in Civil Soyam Land	i =		1.75 <b>Lacs</b>
(Sheet stta	ched on page no. 70 of Muck disposal esti	mate )		
9 Total Ame	ount in Civil Soyam Land =			
(i) Cost of	construction of dumping Yards =			14.49 Lacs
(ii) Cost o	f Vegetation Plantation =			1.75 <b>Lacs</b>
			Total	16.24
Add 2% 1	or Inciclental Charges		Total	0.32 16.56
		1.	rotar	10.30
		//		
117				M
V.E.		A.E.		E.E.

Name Of Work: Muck Disposal Plan For Construction Of Sukoli-Gankot-Rawalgaon Motar Road State Sector (length 1.750km)

### Summary of Debries disposal

			District		
	Balance debries			Nill	
Total	7	guidmnp	zone	800.00 Nill	
	Material disposed by	Cartage		792.75	
•	Reused material for		construction		10232.25
		Total debries			11025.00
	,				

## Location and quantity of debries for disposal

1				2				1	1	
Remark		224.00 कुल अधिमहित वन भूमि की यौडाई = 9.00 मी०		200.00 मोटर गार्ग में प्रयुक्त धन भीने की चोडाइ = 5.00 मीए		216.00 कुल अधिग्रहित वन भूमि की चौडाई = 9.00 मी०		160.00 मिटर मार्ग में प्रयुक्त वन भूमि की चौडाई = 6.00 मी०		000
Capacity of dumping yards		224.00		200.00		216.0	_	160.0		1 800.00
Type of land		State forest land (Uttarakhand	Greet land (Hittarakhand	State forest failu (Ottal andresse Govt.)		State forest land (Uttarakhand Govt.)		State forest land (Uttarakhand	UOV)	Total
Size of dumping yards		C.C., 37		50 ~2~2		2,2,7			40 x2x2	200
Location of dumping	yarus		Ch. 0.550to 0.578		Ch. 0.700to 0.723		Ch.1.190to 1.217		Ch. 1.450to 1.470	
Sr.		-		2	1	3				

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

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

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

# PROPOSAL PLAN FOR MUCK DUMPING

### Executive Engineer Pro. Div. P.W.D Pithoragarh # WIDTH = 3.00 MT Assistant Engineer Pro. Div. P.W.D Pithoragarh -ROAD WIDTH = 6.00 MT ROW = 9.00 Mir Breast Wall Pro. Div. P.W.D Juniow Engineer Pithoragarh

### **Detail of Measurement**

Name Of Work: Muck Disposal Plan For Construction Of Sukoli-Gankot-Rawalgaon Motar Road State Sector (length 1.750km)

	State Sect	or (lengu	1 1./5UK	111)		
S.				P( )	11(-)	OTV
No.		No	L (m)	B(m)	H(m)	QTY
1	Excavation in foundation for structure as			E		
	per drawing and technical specificastion clause 305.1 including setting out			ř		
	construction of shorting and bracing, removal					
	of stumps and other deleterious material and	1				
	disposal up to 50mt,dressing of sides and				1 1	
	bottom and backfilling in trenches with					
	excavated material( ref 11.20-300)			0		
					<u> </u>	
	Ch. 0.550to 0.578	1x1/2	56.00	1.50	0.30	12.60 cum.
	Ch. 0.700to 0.725	1x1/2	50.00	1.50	0.30	11.25 cum.
	Ch.1.190to 1.217	1x1/2	60.00	1.50	0.30	13.50 cum.
	Ch.1.450to 1.470	1x1/2	40.00	1.50	0.30	9.00 cum.
					G.Total	46.35 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	1				
	as per drawing and technical specification of					
	PWD and as directed by Engineer in charge.					
	Ch. 0.550to 0.578	1x2	56.00	1.50	1.50	252.00 cum.
	Ch. 0.700to 0.725	1x2	50.00		1.50	225.00 cum.
	Ch.1.190to 1.217	1x2	60.00		1.50	270.00 cum.
	Ch.1.450to 1.470	1x2	40.00	1.50	1.50	180.00 cum.
					G.Total	927.00 cum.
3	Vegitation Plantation .					
						1 job

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

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

### PWD UTTARAKHAND



SI. No.

### SCHEDULE OF RATES

SOR :- MISCELLANEOUS For Block 55 Bin

Description

Year :- FY. 2018-19

Effective From:-01-May-2018
Rate Unit

CHAPTER-1 - General Items

CHAPI	ER-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	60.90	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	20.20	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	91.80	Oum
•	mechanical means without using Dozer including cutting and trimming	31.00	Cutif
	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	264 00	Cum
	disposal of excavated rock upto a lead of 20 m as per Clause	20,00	0.4.11
	1603.2.		1000
1-1-3-B	Extra for Every Additional Lift of 1.5 m or Part thereof	39.70	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 per	306.50	Cum
	direction of engineer - in - charge, as per drawing and technical	-	
4.0	specifications Clause 305.1 of MORD Specification		
1-3	Random Rubble Stone Masonry laid Dry, in breast walls, retaining wails,		
	etc. including supply of all material, labour, T&P and royalties etc.	1 000 00	0
	complete as per drawing and technical specifications Clauses 702, 704,	1.832.20	Cum
	1202 & 1203 of MORD Specifiction		
4.4	Davidson Dubble Oil and Market All and		
1-4	Random Rubble Stone Masonry laid in 1:5 cement and sand mortar, in		
	breast walls, retaining walls, parapets, scuppers, etc. including supply of	0.005.60	0
	all material, labour, T&P and royaltiles etc. complete as per drawing and	3,295 20	Cum
	technical specifications Clauses 702, 704, 1202 & 1203 of MORD		
15	Specification		
1-5	Hand Packed stone filling in back of walls including cost of all materials,	305.30	
	royality, T&P etc. complete as per direction of Engineer-in- charge. (As	705 30	100
1-6	per PWD Uttarakhand specifications)  Construction of coolin walling including supply of all material Jahour. T&P		
1-0	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-	1,217.90	Cum
	in- charge. (As per PWD Uttarakhand specifications)		







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### STANAHAND TO THE STANAHAND THE STANAHAN

SI. No.

### PWD UTTARAKHAND

### SCHEDULE OF RATES

Description

SOR :- MISCELLANEOUS

Year :- FY. 2018-19

Unit

For Block 55 Bin

Effective From:-01-May-2018

Rate

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	GI wire 10 gauge BWG GI wire 8 gauge BWG	1,474.00	Cum Cum
1-8	Providing and Laying of Mechanically Woven Double 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).	7,395.80	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).	7,577.60	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.	69.40	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.	111.60	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.	183.50	Cum
1-10-4	Slip clearance (by manual means) of earth and boulders including disposal complete as directed by the Engineer-in-charge.	184.20	Cum
1-10-5	Slip clearance (by manual means) of boulders only including disposal complete as directed by the Engineer-in-charge.	197.20	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.	53.40	No.







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### (70)

### **Analysis of Rates**

### Name Of Work : Muck Disposal Plan For Construction Of Sukoli-Gankot-Rawalgion Motar Road State Sector (length 1.750km)

Name		Road & Bridge Uttarakhand	Year	2018-2019
Rate Card		Block 56 Pithoragarh (Kanalichina)	Effective Date	1/5/2018
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		
2	1-7-1	Providing and laying of wire crate 3.00*1.50 in size with GI wire conforming to IS:280 & IS: 4826 in 150mm*150mm mesh laid with stone boulders, as per direction of engineer-in- charge.( As per PWD Uttarakhand Specifications)	Cum 306.50	cum
			Cum 1474.00	cum
		GI wire 10 Gauge BWG		
3		Vegitative Plantation	Per 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

### **Bill of Quantity**

### Name Of Work: Muck Disposal Plan For Construction Of Sukoli-Gankot-Rawalgion Motar Road State Sector (length 1.750km)

Sl. No	Item of work	Quantity	Unit	Rate	Amount
	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)  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	46.35	cum.	306.50	14206.28
	per drawing and technical specification of PWD and as directed by Engineer in charge.	927.00	cum.	1547.50 <b>Total</b>	1434532.50 1448738.78
3	Vegitation Plantation .	1.75	Km	100000.00 <b>Total</b>	175000.00 1623738.78
	Add 2% for Incidental Charges			Total	32474.78 1656213.56

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

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

### **Summary of Estimated Cost**

### Name Of Work: Muck Disposal Plan For Construction Of Sukoli-Gankot-Rawalgion Motar Road State Sector (length 1.750km)

.No.	Description	Amount In Lacs	
1-	Muck disposal Plan for Construction of Machinakholi,	1656213.56	
	Kanari , Bisar motor road under state sector		
	Total	1656213.56	
	Say	16.56	Lacs

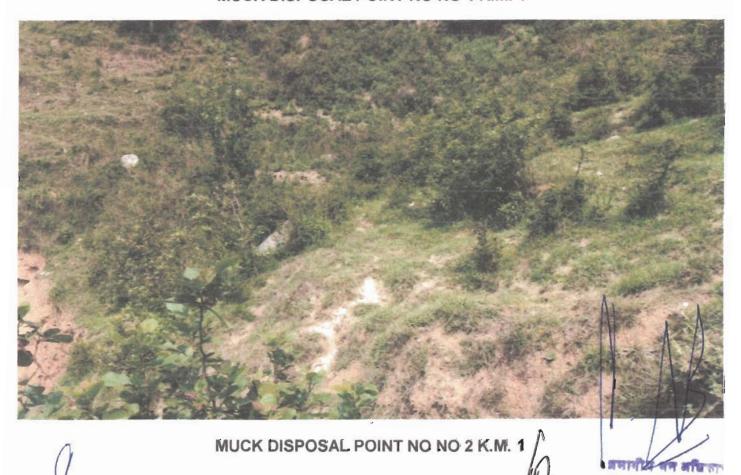
Junior Engineer Pro. Div. P.W.D. Pithoragarh Assistant Engineer Pro. Div. P.W.D. Pithoragarh Executive Engineer Pro. Div. P.W.D. Pithoragarh

विश्वीरागव यव अजी

जनपद पिथोरागढ़ के विधान सभा क्षेत्र पिथौरागढ़ के अर्न्तगत सुगौली गणकोट से रावलगाँव मोटर मार्ग का नव निर्माण कार्य



MUCK DISPOSAL POINT NO NO 1 K.M. 1



प्रान्तीय खण्ड लो0नि0वि0

पिथौरागढ

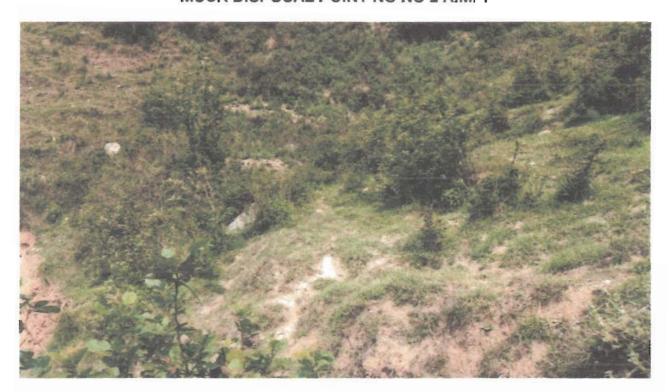
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पिथौरागढ

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जनपद पिथौरागढ़ के विधान सभा क्षेत्र पिथौरागढ़ के अर्न्तगत सुगौली गणकोट से रावलगाँव मोटर मार्ग का नव निर्माण कार्य

### MUCK DISPOSAL POINT NO NO 2 K.M. 1



MUCK DISPOSAL POINT NO NO 2 K.M. 2



MUCK DISPOSAL POINT NO NO 3 K.M. 3

सहा<del>येको अधि</del>यन्ता सहा<del>येको अधिय</del>न्ता

अधिशासी अभियन प्रान्तीय खण्ड लोठनिर्ठाव० पिथौरागढ



