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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 Machinekheli-Biserroad (length =3.00 km)

ESTIMATED COST & 14.97 LAC

LIST OF OFFICERS

SI. NO.	NAME	DESIGNATION	FULL SIGNATURE
1	Er. H.C. Joshi	J. Engineer	Ve
3	Er. D.S. Boora	Asstt. Engineer	XBM
4	Er. H. Bhandari	Jr.Engineer (T)	G
5	Er. N. C. Joshi	Executive.Engineer	1×

Specifications

Name Of Work : Muck Disposal Plan For Construction Of Machinakholi- Kanari -Bisar Motar Road State Sector (length 3.000km)

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

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Page No. -

P.D.PWD Pithoragarh

P.D.PWD, Pithoragarh

P.D.PWD Pithoragarh

Name Of Work : Muck Disposal Plan For Construction Of Machinakholi-Kanari -Bisar Motar Road State Sector (length 3.000km)

Sr	Discription of Item		Quantity	Unit	Remark
no					
1	Material recived from hill site cutting 1/2x3000x3x3=		13500.00	cum	
2	add 40% for swell factor		5400.00	cum	
3	Total quantity for disposal		18900.00	cum	
	Reuse and o	lispo	sal of mater	ial	
1	RR stone masonry laid in 1:6 cement and sand mortar for Retaining wall 23% of total material		4347.00		
2	RR stone masonry laid dry for Breast wall 23% of total material		4347.00	cum	
3	Hand packed Stone filling Behind Retaing wall and Breast wall 20% of R/wall and breast=(a+b)x20%		869.40	cum	
4	Construction of wire crate Total quantity used in Dumping yard		747.00	cum	
5	Construction of parapet (1x100x5x3x0.4 5x0.60)=		972.00	cum	
6	Granular sub base (1x5x400x4.15x0.12)=		3585.60	cum	
7	Improvement of Road grade (1x5x200x6x0.50)		3000.00	cum	
	Total material used		17868.00	cum	
	materal disposed by cartage to dumping yards		1032.00	cum	

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

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

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

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Name Of Work : Muck Disposal Plan For Construction Of Machinakholi- Kanari -Bisar Motar Road State Sector 6 (length 3.000km)

Details of Muck Disposal Yards with Land Owner Detail

1 Ch. 0.275to 0.315 State forest land (Uttarakhand Govt.) 2 Ch. 0.925to 0.960 State forest land (Uttarakhand Govt.) 3 Ch.2.190to 2.240 State forest land (Uttarakhand Govt.) 4 Ch.2.750to 2.000 Ch.2.100to 2.240	Name of Land owner	Land in Hect	Land in Sqm	Land area being used for dumping yard(sqm)	Latitude	Longitude
2 Ch. 0.925to 0.960 State forest 3 Ch.2.190to 2.240 State forest 4 Ch.2.750to 2.000 State forest	rest land (Uttarakhand Govt.)	0.0080	80.00	80.00	29°34'36.939"N	29°34'36.939"N 80°10'47.016"E
3 Ch.2.190to 2.240 State forest	rest land (Uttarakhand Govt.)	0.0070	70.00	70.00	29°34'26.963"N	29°34'26.963"N 80°10'41.652"E
	State forest land (Uttarakhand Govt.)	0.0042	42.00	42.00	29°34'9.652"N	80°10'27.609"E
	State forest land (Uttarakhand Govt.)	0.0340	340.00	340.00	29°34'7.382"N	80°10'17.346"E
Total		0.0532	532.0000	532.0000		

Junior Engineer Pithoragarh

Pro. Div. P.W.D

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

Executive Engineer Pro. Div. P.W.D Pithoragarh 65

Muck Disposal Plan

Summary of Results		
-		18900.00 cum
1 The quantity of material received from hill side cutting -=		
(Sheet sttached on page no. 64 of Muck disposal estimate)		17868.00 cum
2 The quantity of material used in various items =		1,000,000
(Sheet sttached on page no. 64 of Muck disposal estimate)		1032.00 cum
3 The remaining quantity of muck for dumping i/c swell factor		1001100
(Sheet sttached on page no. 64 of Muck disposal estimate)		
4 Numbers of dumping yards needed for the dumping of muck		4.00 Nos
(i) In state forest land =		nil Nos
(ii) In Nap Land =		IIII NO3
(Sheet sttached on page no. 65 of Muck disposal estimate)		
5 Carring capacity of dumping yards with dimensions & coordinates	0.053	Quantity
Area in hect	0.053	Quantity 1064.00 cum
In state forest land =		
(ii) In Nap Land =		0 cum 1064.00 cum
		1064.00 Cum
(Sheet sttached on page no. 67 of Muck disposal estimate)		
6 Land ownership Reports (Nap Land)		
(Sheet sttached on page no.65 of Muck disposal estimate)		
7 Amount for Construction of Dumping Yards		11.67 1
(i) In state forest land =		11.67 Lacs
(ii) In Nap Land =		0 Lacs
(Sheet sttached on page no. 73 & 74 of Muck disposal estimate)		
8 Cost of Vegetation Plantation in Civil Soyam Land =		3.00 Lacs
(Sheet sttached on page no. 72 of Muck disposal estimate)		
9 Total Amount in Civil Soyam Land =		
(i) Cost of construction of dumping Yards =		11.67 Lacs
(ii) Cost of Vegetation Plantation =		3.00 Lacs
	Total	14.67
Add 2% for Incidental Charges	Total	0.29 14.96

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Name Of Work : Muck Disposal Plan For Construction Of Machinakholi- Kanari -Bisar Motar Road State Sector (length 3.000km)

Summary of Debries disposal

Balance debries	
Total disposal in dumping zone	1064.00 Nill
Material disposed by Cartage	1032.00
Reused material for road construction	17868.00
ir. Total debries	18900.00
Sr. no	1

Location and quantity of debries for disposal

-	Location of dumping yards	Size of dumping yards	Type of land	Capacity of dumping yards	Remark
년	Ch. 0.275to 0.315	40 x2x2	State forest land (Uttarakhand Govt.)	160.00	160.00 ਕਿੰਦਾ आधरमहित वन भूमि की चौडार्ड = 9.00 म <u>ी</u> 0
- 61	Ch. 0.925to 0.960	35 x2x2	State forest land (Uttarakhand Govt.)	140.00	140.00 मोटर मार्ग में प्रयुक्त वन भूमि की चौडाई = 6.00 मी0
	Ch.2.190to 2.240	21 x2x2	State forest land (Uttarakhand Govt.)	84.00	84.00 कुल अधिग्यंहेत वन भूमि की चौडाई = 9.00 मीo
4	Ch.2.750to 2.920	170 x2x2	State forest land (Uttarakhand Govt.)	680.00	680.00 मोटर मार्ग में प्रयुक्त वन भूमि की चौडाई = 6.00 मीo
		266	Total	1064.00	

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

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

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

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PWD UTTARAKHAND SCHEDULE OF RATES

SOR :- MISCELLANEOUS For Block 55 Bin

Year :- FY. 2018-19 Effective From:-01-May-2018 69

	FOR BIOCK 55 BIN E	nective From:-01	may 2010
SI. No.	Description	Rate	Unit
CHAPTE	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	01.90	Cum
	mechanical means without using Dozer including cutting and trimming	91.80	Guin
	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		
	1603.2.	20.70	Cum
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		
	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.	1,832.20	Cum
	complete as per drawing and technical specifications Clauses 702, 704	1,002.20	Outif
	1202 & 1203 of MORD Specifiction		
1-4	Random Rubble Stone Masonry laid in 1:6 cement and sand mortar, in	ı	
	breast walls, retaining walls, parapets, scuppers, etc. including supply c	f	
	all material, labour, T&P and royaltiles etc. complete as per drawing an	d 3,295.20	Cum
	technical specifications Clauses 702, 704, 1202 & 1203 of MOR	D	
	Specifiction		
1-5	Hand Packed stone filling in back of walls including cost of all material	5,	
	royality, T&P etc. complete as per direction of Engineer-in- charge. (A	s 705.30	Cum
	per PWD Uttarakhand specifications)		
1-6	Construction of coolie walling including supply of all material, labour, T8	Р	
	etc. required for proper completion of the work as per direction of Engine	er· 1,217.90	Cum
	in- charge. (As per PWD Uttarakhand specifications)	1,211.00	0.011

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सहायक अभियन्ता प्रान्तीय खण्ड लो०नि०वि० पिथौरागढ़

SI. No. 1-7 1-7-1 1-7-2 1-8	SCHEDULE OF RATES SOR :- MISCELLANEOUS For Block 55 Bin Description 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 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 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).	Effective From: Rate	:- FY. 2018-19 -01-May-2018 Unit Cum Cum No.
1-7 1-7-1 1-7-2	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 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 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	Effective From: Rate 1,474.00 1,655.80	Cum Cum
1-7 1-7-1 1-7-2	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 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 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	Effective From: Rate 1,474.00 1,655.80	Cum Cum
1-7 1-7-1 1-7-2	Description 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 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 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	Rate 1,474.00 1,655.80	Unit Cum Cum
1-7 1-7-1 1-7-2	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 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 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	1,474.00 1,655.80	Cum Cum
1-7-1 1-7-2	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 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 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	1,474.00 1,655.80	Cum
1-7-2	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 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	1,655.80	Cum
	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		
	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	7,395.80	No.
	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.
	Clearance of land slides (Slip Clearance)		
1-10-1	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	69.40	Cum
	directed by the Engineer-in-charge.		
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-in-charge.	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
	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.
	\bigcirc		Page 3 of 1
M/	XB		
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(F)

Analysis of Rates

Name Of Work : Muck Disposal Plan For Construction Of Machinakholi- Kanari -Bisar Motar Road State Sector (length 3.000km)

Name		Road & Bridge Uttarakhand	Y	ear	2018-2019
Rate Car	rd	Block 56 Pithoragarh (Kanalichina)	Effect	ive 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	Cum	306.50	cum
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	1474.00	cum
2		GI wire 10 Gauge BWG			
3		Vegitative Plantation	per	1000000	d km

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

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

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

(7)

Detail of Measurement

Name Of Work : Muck Disposal Plan For Construction Of Machinakholi- Kanari -Bisar Motar Road State Sector (length 3.000km)

S.	No	L (m)	B(m)	H(m)	QTY	
 Item 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) 	No	L (m)	D(III)	n(m)		
Ch. 0.275to 0.315	1x1/2	40.00	1.50	0.30	9.00	cum.
Ch. 0.925to 0.960	1x1/2	35.00	1.50	0.30	7.88	cum.
Ch.2.190to 2.240	1x1/2	21.00	1.50	0.30	4.73	cum.
Ch.2.750to 2.920	1x1/2	70.00	1.50	0.30	15.75	cum.
				G.Total	37.36	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. 0.275to 0.315	1x2	40.00	1.50	1.50	180.00	
Ch. 0.925to 0.960	1x2	35.00	1.50	1.50	157.50	
Ch.2.190to 2.240	1x2	21.00	1.50	1.50	94.50	
Ch.2.750to 2.920	1x2	70.00	1.50	1.50	315.00	
				G.Total	747.00	cum
3 Vegitation Plantation .	0				1	job

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

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

Bill of Quantity

Name Of Work : Muck Disposal Plan For Construction Of Machinakholi- Kanari -Bisar Motar Road State Sector (length 3.000km)

l. 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)	37.36	cum.	306.50	11450.84
	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.	747.00	cum.	1547.50 Total	1155982.50 1167433.34
3	Vegitation Plantation .	3.00	km	100000.00	300000.0
	- egration Fantation (0.00	iiiii	Total	1467433.34
	Add 2% for Incidental Charges				29348.6
	2			Total	1496782.0

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

Assistant Engineer Pro. Div. P.W.D. Pithoragarh पण्डु बन्न स्वताल

Lu Executive Engineer Pro. Div. P.W.D. Pithoragarh 73

Summary of Estimated Cost

Name Of Work : Muck Disposal Plan For Construction Of Machinakholi-Kanari -Bisar Motar Road State Sector (length 3.000km)

S.No.	Description	Amount In Lacs	
1-	Muck disposal Plan for Construction of Machinakholi, Kanari , Bisar motor road under state sector	1496782.01	
	Total	1496782.01	
	Say	14.97	Lacs

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

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

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

जनपद पिथौरागढ़ के विधान सभा क्षेत्र पिथौरागढ़ के अन्तर्गत सुगौली चमाली रोड से मछीनाखोली कनारी विषाण तक मोटर मार्ग का नव निर्माण



MUCK DISPOSAL POINT NO 1 K.M. 1



MUCK DISPOSAL POINT NO 1 K.M. 2



सहायक अभियन्ता ब्रान्तीय खण्ड लो०नि०वि० पिधौरागढ

अधिशासी अभियना प्रान्तीय खण्ड लो०नि०वि० पिधौरागढ

नन क्षेत्राधिकास fastiging

जनपद पिथौरागढ़ के विधान सभा क्षेत्र पिथौरागढ़ के अन्तर्गत सुगौली चमाली रोड से मछीनाखोली कनारी विषाण तक मोटर मार्ग का नव निर्माण



MUCK DISPOSAL POINT NO 2 K.M. 3



MUCK DISPOSAL POINT NO 3 K.M. 4

सहायक अभियन्ता

सहायक अभियन्ता प्रान्तीय खण्ड लो०नि०वि० पिथौरागढ

अधिशासी अभियन्त प्रान्तीय खण्ड लो०नि०बि० पिथौरागढ़

नन क्षेत्राधिकारी पिधारागव

Scanned by CamScanner

मितिन वन लघिकाची वियोदायन वन डवाव (76)