

Full Title of the Project:

File No. :

Date of Proposal:

Construction of link road from Naldehra to Odu km. 0/0 to 2/745.
FP/HP/ROAD/42949/2019
20 Nov 2019

Muck Management Plan

1.	Total quantity of muck to be generated from cutting	26780.00	cum
2.	Deduction of useful stone as required under clauses of agreement to be executed by the Executive Engineer of Project	1606.00	cum
3.	Net balance quantity of debris/muck	25174.00	cum
4	Add Quantity available on site with swell factor @40% on PW&JW	10069.60	cum
	Total (A)	35243.60	cum
5	Less for Materials required for dumping in behind R/Wall etc @ 10% (A)	3524.36	cum
6	Less material/muck required for levelling of proposed road for the construction @15% of (A)	5286.54	cum
7	Less material/muck required for the construction of proposed road on the analogy of half cutting and half filling @40% of (A)	14097.44	cum
	Total (B)	22908.34	cum
8	Materials/Muck left at the site which required carriage for the proper dumping at the recognised site as per instruction of Forest and Environment ministry reinforced by the various judgements of the Apex Court/Govt. of India i.e. (A-B)	12335.26	cum
9	Design proposed for Dumping Sites (Attached)	3 Nos	
10	Total Capacity of Dumping Sites as per details attached	13944.00	cum
11	Area in Hectare for Dumping Sites		
	Forest Area	0.4050	Hectare
	Non Forest Area	0.0000	Hectare
	Total	0.4050	Hectare


Assistant Engineer,
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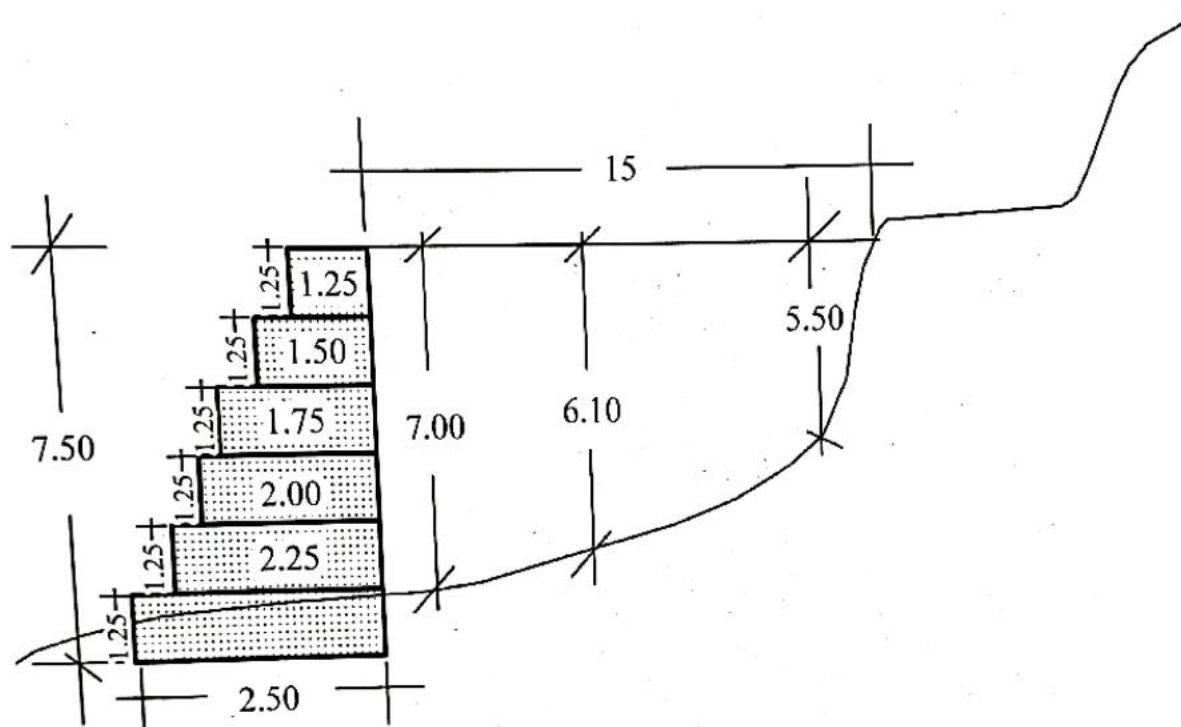


Divisional Forest Officer
Shimla Forest Division
SHIMLA


Executive Engineer,
Shimla Division No. 1,
H.P.P.W.D. Shimla 171003

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X-SECTION OF MUCK No. 1 at RD 0/085 – 0/130
&
X-SECTION OF MUCK No. 2 at RD 0/655 – 0/710
&
X-SECTION OF MUCK No. 3 at RD 2/095 – 2/140



$$\text{Area} = 50 \times 15 \times \frac{5.50 + 6.10 + 7.00}{3} = 4648.00 \text{ m}^3$$

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K. S. D.
Divisional Forest Officer
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Detail of Measurement

Sub-Head:- Construction of wire crates work for a dumping site.

1. Earthwork in excavation for structures as per drawing and technical specification a clause 305.1.

Sr. No.	Description	No	Measurement			Quantity
			L	B	H	
1	Dumping Site No 1 at RD 0/085 – 0/130	1	45.00	2.50	$\frac{(0.60+0.80)}{2}$	78.75 m ³
2	Dumping Site No 2 at RD 0/655 – 0/710	1	55.00	2.50	$\frac{(0.60+0.80)}{2}$	96.25 m ³
3	Dumping Site No 3 at RD 2/095 – 2/140	1	45.00	2.50	$\frac{(0.60+0.80)}{2}$	78.75 m ³
Total						253.75 m³

2. Providing and laying of boulder apron laid in wire crates with 4mm dia wire.

Dumping Site No 1 at RD 0/085 – 0/130					
Description	No	Measurement			Quantity
		L	B	H	
1 st Layer	1	50.00	2.50	1.25	156.25 m ³
2 nd Layer	1	50.00	2.25	1.25	140.63 m ³
3 rd Layer	1	50.00	2.00	1.25	125.00 m ³
4 th Layer	1	50.00	1.75	1.25	109.38 m ³
5 th Layer	1	50.00	1.50	1.25	93.75 m ³
6 th Layer	1	50.00	1.25	1.25	78.13 m ³
Dumping Site No 2 at RD 0/655 – 0/710					
Description	No	Measurement			Quantity
		L	B	H	
1 st Layer	1	55.00	2.50	1.25	171.88 m ³
2 nd Layer	1	55.00	2.25	1.25	154.69 m ³
3 rd Layer	1	55.00	2.00	1.25	137.50 m ³
4 th Layer	1	55.00	1.75	1.25	120.3 m ³
5 th Layer	1	55.00	1.50	1.25	103.13 m ³
6 th Layer	1	55.00	1.25	1.25	85.94 m ³
Dumping Site No 3 at RD 2/095 – 2/140					
Description	No	Measurement			Quantity
		L	B	H	
1 st Layer	1	50.00	2.50	1.25	156.25 m ³
2 nd Layer	1	50.00	2.25	1.25	140.63 m ³
3 rd Layer	1	50.00	2.00	1.25	125.00 m ³
4 th Layer	1	50.00	1.75	1.25	109.38 m ³
5 th Layer	1	50.00	1.50	1.25	93.75 m ³
6 th Layer	1	50.00	1.25	1.25	78.13 m ³

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Maintenance of plantationFIRST YEAR MAINTENANCE WITH 25% MORTALITY

SR. NO.	DESCRIPTION	UNITS	QUANTILY	RATE	AMOUNT (RS)
1	Re-digging of pits 60x60x60cm	Nos	423	4.2	1777
2	Filling of pits 60x60x60cm	Nos	423	1.42	601
3	Cost of plants	Nos	423	7	2961
4	Carriage of plants by vehicle	-----	423	1.5	635
5	Carriage of plants on p. pages over a distance of ---km	Nos	423	2	846
6	Planning of entire plants	Nos	423	7.36	3113
7	Repair of fence	Rmt	225	0.65	146
8	Repair of fence plants	Nos	25	2.35	59
	Total				10138
	Or say				10100

SECOND YEAR MAINTENANCE WITH 20% MORTALITY

SR. NO.	DESCRIPTION	UNITS	QUANTILY	RATE	AMOUNT (RS)
1	Re-digging of pits 60x60x60cm	Nos	338	4.2	1420
2	Filling of pits 60x60x60cm	Nos	338	1.42	480
3	Cost of plants	Nos	338	7	2366
4	Carriage of plants by vehicle	-----	338	1.5	507
5	Carriage of plants on p. pages over a distance of ---km	Nos	338	2	676
6	Planning of entire plants	Nos	338	7.36	2488
7	Repair of fence	Rmt	225	0.65	146
8	Repair of fence plants	Nos	25	2.35	59
	Total				8142
	Or say				8100


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THIRD & FORTH YEAR MAINTENANCE WITH 15% MORTALITY

SR. NO.	DESCRIPTION	UNITS	QUANTILY	RATE	AMOUNT (RS)
1	Re-digging of pits 60x60x60cm	Nos	254	4.2	1067
2	Filling of pits 60x60x60cm	Nos	254	1.42	361
3	Cost of plants	Nos	254	7	1778
4	Carriage of plants by vehicle	-----	254	1.5	381
5	Carriage of plants on p. pages over a distance of ---km	Nos	254	2	508
6	Planning of entire plants	Nos	254	7.36	1869
7	Repair of fence	Rmt	225	0.65	146
8	Repair of fence plants	Nos	25	2.35	59
	Total				6169
	Or say				6200

FIFTH, SIXTH & SEVENTH YEAR MAINTENANCE WITH 10% MORTALITY

SR. NO.	DESCRIPTION	UNITS	QUANTILY	RATE	AMOUNT (RS)
1	Re-digging of pits 60x60x60cm	Nos	169	4.2	710
2	Filling of pits 60x60x60cm	Nos	169	1.42	240
3	Cost of plants	Nos	169	7	1183
4	Carriage of plants by vehicle	-----	169	1.5	254
5	Carriage of plants on p. pages over a distance of ---km	Nos	169	2	338
6	Planning of entire plants	Nos	169	7.36	1244
7	Repair of fence	Rmt	225	0.65	146
8	Repair of fence plants	Nos	25	2.35	59
	Total				4174
	Or say				4200


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