


Full Title of the Project: Construction of link road from Naldehra to Odu km. 0/0 to 2/745.
 File No. : FP/HP/ROAD/42949/2019
 Date of Proposal: 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

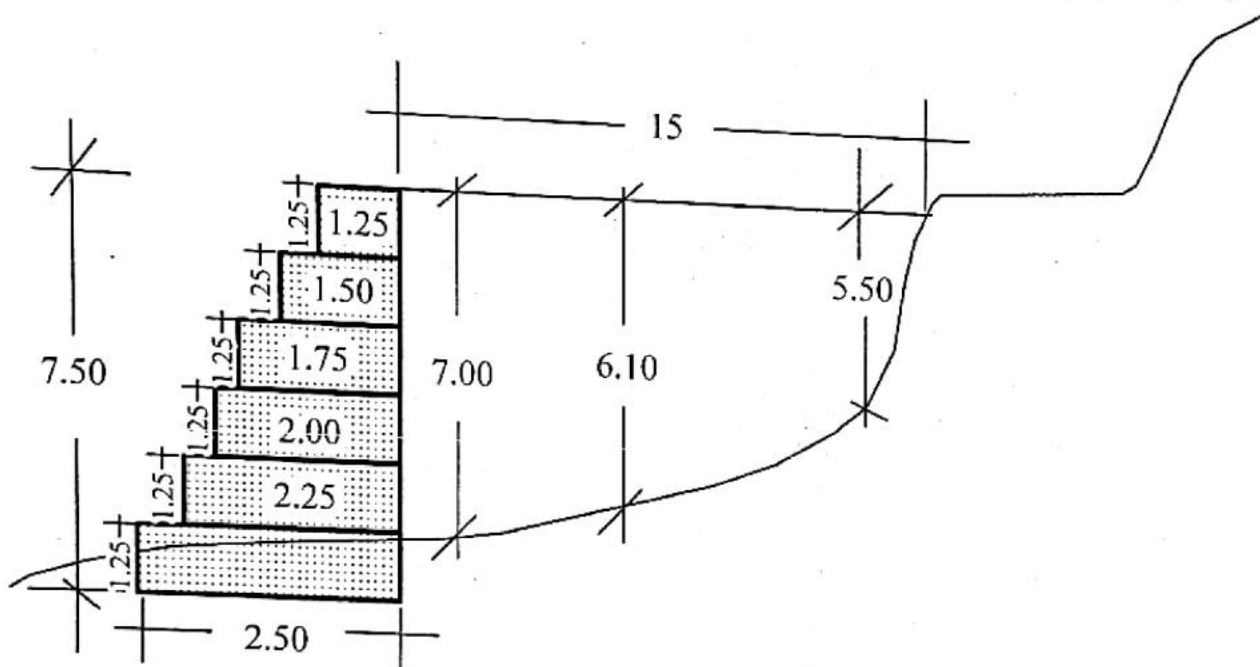

 Assistant Engineer,
 Sub-Division, Mashobra
 HP.PWD Shimla.


 Divisional Forest Officer
 Shimla Forest Division
 SHIMLA


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

Full Title of the Project: Construction of link road from Naldehra to Odu km. 0/0 to 2/745.
File No. : FP/HP/ROAD/42949/2019
Date of Proposal: 20 Nov 2019

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



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

tu-1

[Signature]
Executive Engineer
Shimla Division No.1
H.P.P.W.D. Shimla-171003

G.S.

[Signature]
Divisional Forest Officer
Shimla Division
SHIMLA

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

Detail of Dumping Site

Sr. No.	Description	RD		Area coming under Dumping Site			Capacity of Dumping Site
		From	To	Forest Area	Non-Forest Area	Total Area	
1	Dumping Site No 1	0/085	0/130	0.1350	-	0.1350 Hectare	4618.00 m ³
2	Dumping Site No 2	0/665	0/710	0.1350	-	0.1350 Hectare	4648.00 m ³
3	Dumping Site No	2/095	2/140	0.1350	-	0.1350 Hectare	4648.00 m ³
Total						0.4050 Hectare	13944.00 m ³

Abstract of Cost

SH: - Construction of wire crates work for a dumping site.					
Sr. No.	Description of items	Quantity	Rate	Unit	Amount
1	Earthwork in excavation for structures as per drawing and technical specification a clause 305.1 including setting out construction of storing and bracing removal of stumps and other deleterious materials and disposal upto all leads ad lefts dressing of sides and bottom and backfilling in trenches with excavation suitable materials.	253.75 m ³	128.15	Per m ³	32518.06
2	Providing and laying of boulder apron laid in wire crates with 4mm dia wire conforming to 15:280 and 15:4826 in 100 mm X 100 mm mesh including 10 % extra for laps and joints laid with stone boulder weighing not less than 25kg each as per drawing and technical specification clause 1301.	2179.72 m ³	1458.40	Per m ³	3178903.65
Total					3211421.71

tu
Assistant Engineer,
Sub-Division, Mashobra
HP.PWD Shimla.

GS
Divisional Forest Officer
Shimla Forest Division
SHIMLA

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

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 m ³

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

Assistant Engineer,
Sub-Division, Mashobra
HP.PWD Shimla.

Divisional Forest Officer
Shimla Division
SHIMLA

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