MUCK DISPOSAL PLAN

NAME OF THE PROPOSAL : CONSTRUCTION OF ROAD FROM GARHSAMNABANJ TO MARILA RAJUNDI

Proposal No:- FP/JK/ROAD/45525/2020
Date of Proposal:- 24/05/2020

DETAIL OF MUCK/DEBRIS TO BE PRODUCED

S No	Description of Item	Quantity (cum)
1	Total Quantity of muck to be produced from forest land during construction	42328
2	To be used for soling of road, wearing of road and filling behind retaining walls of road (30% soil)	12698
3	To be used locally for construction of road (30% stone)	12698
4	Total Quantity to be used (2+3)	25396
5	Net Quantity to be dumped (1-4)	16932
6	Swell Factor 20%	3386
7	Total Quantity to be dumped (5+6)	20318

Executive Engineer
PMGSY Division
Ramnagar

STATEMENT SHOWING DETAIL OF PLACES FOR DISPOSAL OF MUCK/DEBRIS DUE TO CONSTRUCTION OF ROAD FROM GARHSAMNABANJ TO MARILA RAJUNDI

S No	Name of Dumping Place	Location of Dumping Place	Slope of Dumping Place	Length(m), Width(m) and Area(sqm) of Dumping Place	Height of Dump expected (m)	Quantity of Muck be Dumped (cum)	Remarks (Area in hectares)
1	Dumping Site-1	3/400	-	50x35=1750	4	7000	0.175
2	Dumping Site-2	4/700	-	50x35=1750	4	7000	0.175
3	Dumping Site-3	5/290	-	50x35=1750	4	7000	0.175
Total				**5250**		**21000**	**0.525**

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STATEMENT SHOWING DUMPING QUANTITY OF MUCK/DEBRIS TO BE DUMPED WITH OTHER DETAIL FOR PROJECT CONSTRUCTION OF ROAD FROM GARHSAMNABANJ TO MARILA RAJUNDI

S No	Name of Component from Muck / Debris is to be produced	Total Qty. of Muck/Debris to be produced (cum)	Qty. of Muck/Debris to be utilized locally (cum)	Qty. of Muck/ Debris to be dumped (cum)	Factor of increase in volume for dumping	Qty. of Muck/ Debris to be dumped on the basis of increase(cum)	Name of Dumping Places	Slope of Dumping Place	Location of Dumping Place	Distance of Dumping Place from River	Area of Dumping Place (Ha)	Area of forest land involved in Dumping Place	Height of Muck Dump Expected	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Formation cutting work of forest land	42328	25396	16932	1.20	20318	Dumping Site-1, Dumping Site-2, Dumping Site-3	-	3/400 4/700 5/290	-	0.525	Nil	4	

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STATEMENT SHOWING COMPLETE DETAILS FOR THE CONSTRUCTION OF ROAD FROM GARHSAMNABANJ TO MARILA RAJUNDI

S No	RD		Distance in mtr			Width of Right of Way (m)	Area of Road		Total Area of Forest Land (Ha)	Name of Village	Qty of Muck to be produced	Qty of Muck to be utilized locally	Swelling Factor	Qty of Muck to be dumped in dumping places
	From	To	Forest Land (m)	Non Forest Land (m)	Total (m)		Forest Land (sqm)	Non Forest Land						
1	0	750	750	0	750	5	3750	0						
2	750	775	25	0	25	8	200	0						
3	775	950	175	0	175	5	875	0						
4	950	975	25	0	25	8	200	0						
5	975	1225	250	0	250	5	1250	0						
6	1225	1250	25	0	25	8	200	0						
7	1250	1800	550	0	550	5	2750	0						
8	1800	1825	25	0	25	9	225	0	1.4575	Marila Rajundi	42326	25396	1.2	20213
9	1825	2225	400	0	400	5	2000	0						
10	2225	2575	0	450	450	6	0	2700						
11	2675	3300	625	0	625	5	3125	0						
12	3300	5350	0	2050	2050	6	0	12300						
13	Dumping Site 1		0	50	50	35	0	1750						
14	Dumping Site 2		0	50	50	35	0	1750						
15	Dumping Site 3		0	50	50	35	0	1750						

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LAYOUT PLAN OF MUCK DUMPING SITES

IMPLEMENTATION OF ENGINEERING MEASURES AT MUCK DUMPING SITES:

It has been observed that after disposal of muck, it creates problem as it is susceptible to scattering unless the muck disposal yards are supported with engineering measures such as protective walls. All the dumping sites need proper handling to avoid spilling of muck while dumping and in the post dumping stages. All the muck disposal sites have to be developed from the ground level either by providing stone masonary or by gabion structure (Crate Walls). Two Layered Crate Walls will be provided to support disposed muck. In all the muck dumping sites, the muck brought in by dumpers shall be dumped and manually spread and roller compacted in such a way that rock mass is properly stacked behind the Crate Walls with minimum of voids.

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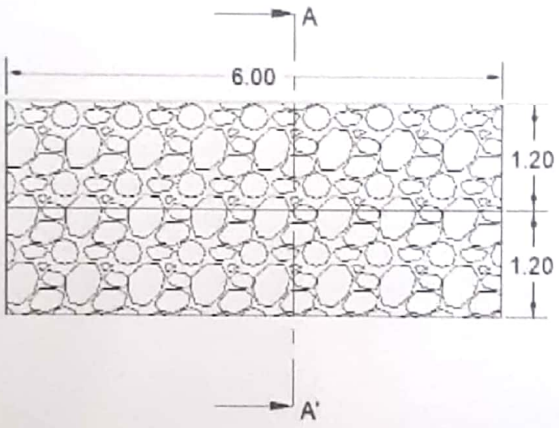
1. Dumping Site-1:- 50 x 35: Crate Wall Required:- 50+35+35 = 120 Rmt
2. Dumping Site-2:- 50 x 35: Crate Wall Required :- 50+35+35 = 120 Rmt
3. Dumping Site-3:- 50 x 35: Crate Wall Required :- 50+35+35 = 120 Rmt

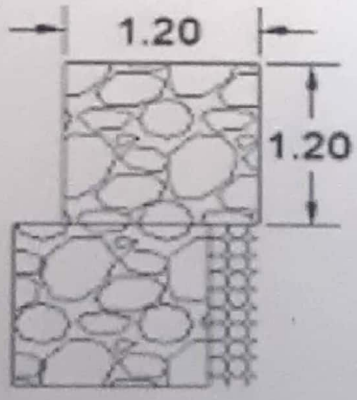
Total Length of Crate Wall Required = 120+120+120 = 360 Rmt

Rate per Rmt of Crate Wall as per model plan provided by PMGSY Jammu = Rs 3735.00 / Rmt

Total Amount of Crate Wall = 360 x 3735 = Rs 13,44,600 = Rs 13.446 Lacs

This amount will be adjusted from the already sanctioned amount of Rs 321.30 Lacs





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