DETAILED COMPREHENSIVE MUCK DISPOSAL PLAN

PROJECT : Nallah Gouran to Murara Devi Stage 1st Package No. JK14-454

Quantity of muck to be generated during execution of the project = 101970 cum.

Estimated quantity of hard rock @ 15% =15295 cum

Estimated quantity of ordinary rock @ 25% = 25492 cum

Estimated quantity to be used at site including filling of embankments etc. @10% = 10197 cum

Estimated quantity left for disposal = 101970 – (15925 + 25492 +10197) = 50356 cum

Estimated quantity on the basis of soil compaction factor (40% of 50356 cum) = 20142 cum

Volume/Capacity of dumping sites required for muck disposal = 50356 + 20142 = 70498 cum

Remarks: The quantity of muck generated and ordinary/hard rock material has been estimated on the basis of DPR of the project. This rock material will be utilized at site for construction purposes, filling in retaining walls, abutments, wing walls and boulder packing etc. Also the ordinary soil quantified at around 10% of the total generated muck will be utilized at site for filling of trenches and embankments etc.

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Proposed Muck Disposal Sites for Road Nallah Gouran to Murara Devi JK14-454

Dumping Site	RD	Dimension (LxW)	Average Estimated Height (H)	Muck Disposal Capacity (cum)
D-1	5/700	50m x 25m	2.5m	3125
D-2	6/000	50m x 25m	2.5m	3125
D-3	6/275	50m x 25m	2.5m	3125
D-4	6/600	50m x 25m	2.5m	3125
D-5	6/975	50m x 25m	2.5m	3125
D-6	7/200	50m x 25m	2.5m	3125
D-7	7/425	50m x 25m	2.5m	3125
D-8	7/650	50m x 25m	2.5m	3125
D-9	7/900	50m x 25m	2.5m	3125
D-10	8/125	50m x 25m	2.5m	3125
D-11	8/400	50m x 25m	2.5m	3125
D-12	8/675	50m x 25m	2.5m	3125
D-13	9/300	50m x 25m	2.5m	3125
D-14	9/450	50m x 25m	2.5m	3125
D-15	9/700	50m x 25m	2.5m	3125
D-16	10/150	50m x 25m	2.5m	3125
D-17	10/625	50m x 25m	2.5m	3125
D-18	10/900	50m x 25m	2.5m	3125
D-19	11/325	50m x 25m	2.5m	3125
D-20	11/600	50m x 25m	2.5m	3125
D-21	11/825	50m x 25m	2.5m	3125
D-22	12/125	50m x 25m	2.5m	3125
D-23	12/350	50m x 25m	2.5m	3125
D-24	12/675	50m x 25m	2.5m	3125
D-25	13/025	50m x 25m	2.5m	3125
Total Muck Disposal Capacity				78125

Remarks: The height of debris at any particular dumping site is expected to range from 0.6m at the road side end to around 4.5m at the far side end. Therefore for calculation purpose an average height of a dumping site is taken to be 2.5m.

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ENGINEERING MEASURES FOR STABILISATION OF MUCK DISPOSAL SITES IN FOREST AREA

"Typical Estimate for Construction of Crated Wall at Dumping Sites for Muck Disposal"

Proposed Length of Crated Wall = 60 m

Trench excavation in dense soils

Quantity = 1 x 60m x 1.40m x 0.60m = 50.40 cum

Amount = 50.40 cum @ Rs. 332/cum = Rs. 16732

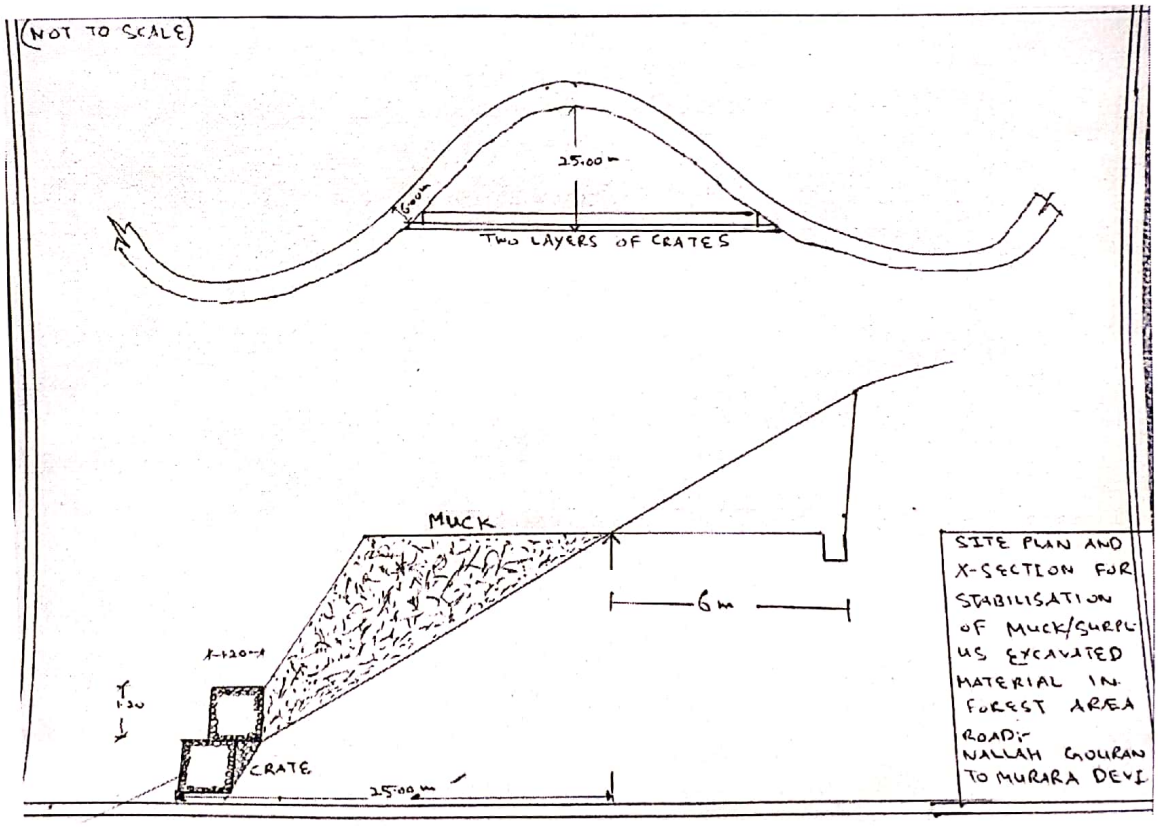
For two layered crated wall

Quantity = 2 x 60m x 1.2m x 1.2m = 172.80 cum

Amount = 172.80 cum @ Rs. 1200/cum = Rs. 207360

Total amount for two layered crated wall at a dumping site = 16732 + 207360 = Rs. 224092

Total amount for two layered crated wall at 25 dumping sites = 25 x 224092 = Rs. 5602300



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