

Muck Disposal Plan

Name of Proposal : Construction of road from Ramakunda to Gool

1.0) The Project involves construction of road having a length of 4.90km

2.0) Generated Muck Volume

Construction Of Road requires removal of vegetation and trees firstly. Then earthwork cutting is to be executed .The volume of muck to be generated is detailed in table 1. About 55% of muck generated is to be reused in road construction for filling, constt. of retaining/gabion walls. The total quantity of generated muck ,reusable quantity and quantity to be disposed are provided in Table 2

KM	muck volume(to be generated) (cum)
KM ist	14321
Km 2 nd	13951
Km 3 rd	13769
Km 4 th	8084
Km 5 th	3995
drain	1080
Total	55110

Table 1. Muck volume(to be generated)

Muck vol.(Cum)	Re-used Volume(cum)	Disposal Volume(cum)
55110	30310	24799

Table 2. Volume of muck to be disposed

3.0) Proposed muck disposal sites

3 muck disposal sites measuring a total area of 1 ha have been selected as designated site for muck disposal in Table 3

dumping 1	1100
dumping 2	1100
dumping 3	1100
Total	3300 sqm or 0.33 ha

Table 3.

The muck disposal sites are located in forest area as no other alternative non-forest area is available in the project area

The muck holding capacity of all muck disposal sites are detailed in table 4

Village	Forest Compartment	Area (Ha)	Length (m)	Width (m)	Gabion all height (m)	Capacity (Cum)
			55	20	8	8800
			55	20	8	8800
			55	20	8	8800
Total						26400

Table 4

It can be inferred from the volume that capacity of disposal sites exceeds the generated muck volume. Therefore, the proposed muck disposal sites with suggested gabion wall height will suffice the requirement of dumping of excavated muck.

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PROPOSAL: Construction of Road from Ramakunde to Gool

Model Plan related to engineering measures for stabilization of landsliding sites in Forest Area

Typical Estimate for constn. of contd wall to protect the dumping site of surplus mulch/excavated material in Forest area

Taking length of contd wall for 55.0 mtrs.

$$\begin{aligned}\text{Trench excavation} &= 55.0 \times 1.20 \times 0.60 \\ &= 39.60 \text{ Cum @ Rs } 252.05 / = \text{Rs } 9981 / =\end{aligned}$$

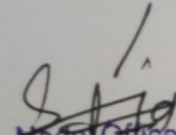
For 9.50 mtrs height

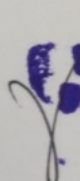
$$\begin{aligned}&= 8 \times 55.0 \times 1.20 \times 1.20 \\ &= 633.6 \text{ m}^3 @ \text{Rs } 1431.89 / \text{m}^3 \\ &= \text{Rs } 907245 / = (\text{incl. cost of concrete & labour})\end{aligned}$$

Total cost of 55.0 mtrs ^{long} 9.5 mtrs height contd wall = Rs 9981 + 907245 / =

$$= \text{Rs } 917226 / =$$

$$\text{Rate per Metre} = \text{Rs } 16,676 / =$$


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