

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 1 st | 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 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.

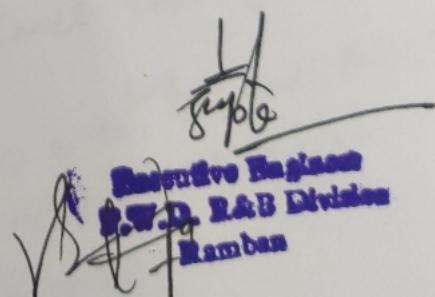
The muck disposal sites are located in forest area as no other alternative non-forest area is available in the project area

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

| Village | Forest Compart ment | Area (Ha) | Length(m) | Width(m) | Gabion all height(m) | Capacity(C um) |
|--------------|---------------------|-----------|-----------|----------|----------------------|----------------|
| | | | 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.


Executive Engineer
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PROPOSAL: Construction of Road from Ramnukde to Gool
Ramban

Model Plan related to engineering
measures for stabilisation of much
dripping sites in Forest Area

Typical Estimate for constt. of
concrete wall to protect the dripping
site of slopes mainly excavated material
in Forest area

Taking length of concrete wall for 55.0 mtrs.

$$\text{Trench excavation} = 55.0 \times 1.20 \times 0.60
= 39.60 \text{ cum} @ \text{Rs} 252.05/\text{cum} = \text{Rs} 9981/-$$

For 9.50 mtrs height

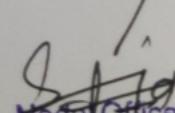
$$\begin{aligned} &= 8 \times 55.0 \times 1.20 \times 1.20 \\ &= 633.6 \text{ m}^3 @ \text{Rs} 1431.87/\text{m}^3 \\ &= \text{Rs} 907245/- \text{ (inc. cost of concrete & labours)} \end{aligned}$$

Total cost of 55.0 mtrs ^{long}, 9.50 mtrs height

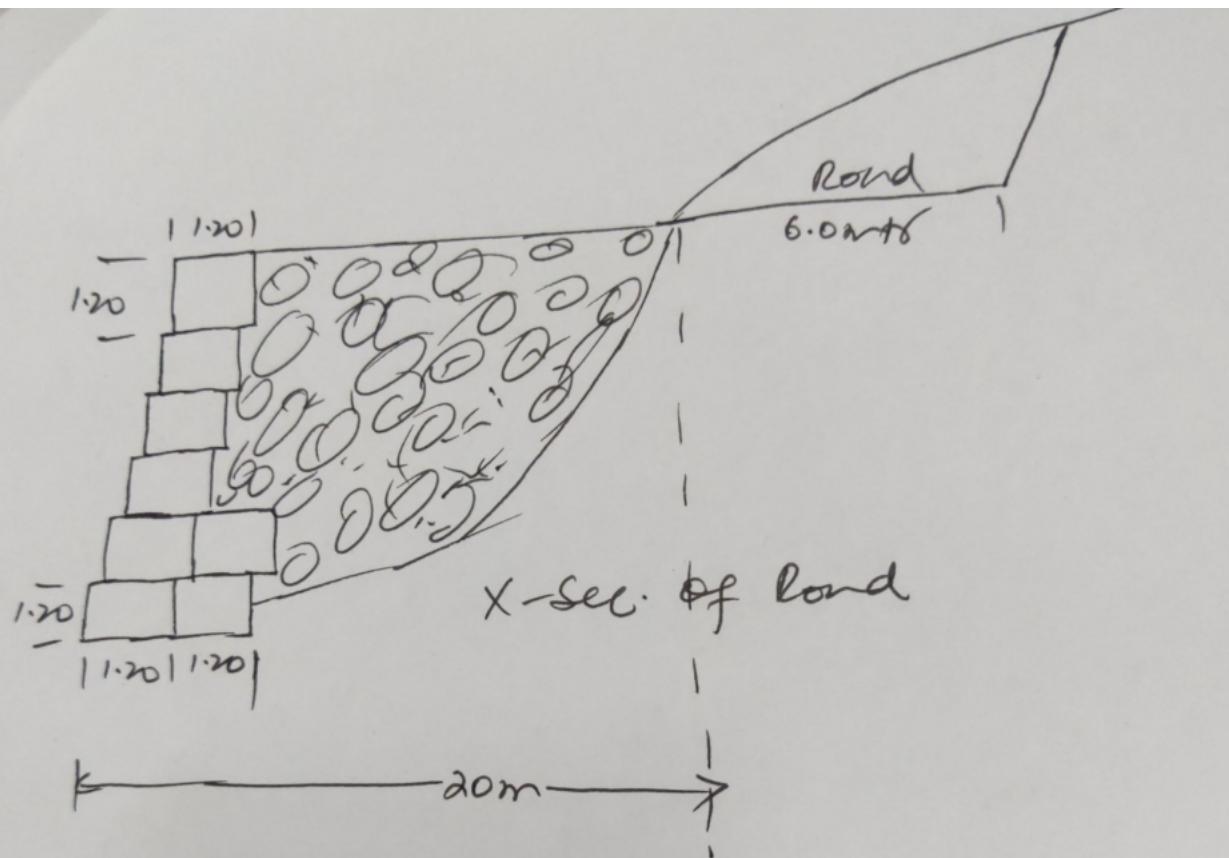
$$\text{concrete wall} = \text{Rs} 9981 + 907245/-$$

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

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


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