

DETAILED COMPREHENSIVE MUCK DISPOSAL PLAN

PROJECT : Langa to Charkhoo Stage 1st Package No. JK14-444

Quantity of muck to be generated during execution of the project = 115000 cum.

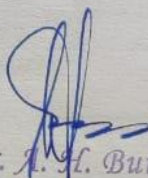
Estimated quantity to be used at site including filling of embankments etc. @35% = 40250 cum

Estimated quantity left for disposal = $115000 - 40250 = 74750$ cum

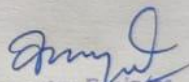
Estimated quantity on the basis of soil compaction factor (40% of 74750 cum) = 29900 cum

Volume/Capacity of dumping sites required for muck disposal = $74750 + 29900 = 104650$ cum

Remarks: About 35 % of the total excavated material generated during earth cutting will be utilized on site for various works including backfilling of R/walls, abutment walls, wing walls and leveling works etc. The remaining quantity will be left out for disposal at designated dumping sites.



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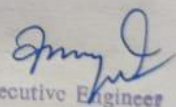
Proposed Muck Disposal Sites for Road Langa to Charkhoo JK14-444

<u>Dumping Site</u>	<u>RD</u>	<u>Dimension (LxW)</u>	<u>Average Estimated Height (H)</u>	<u>Muck Disposal Capacity (cum)</u>
<u>D-1</u>	1/000	75m x 20m	3.5m	5250
<u>D-2</u>	1/675	75m x 20m	3.5m	5250
<u>D-3</u>	1/925	75m x 20m	3.5m	5250
<u>D-4</u>	2/225	75m x 20m	3.5m	5250
<u>D-5</u>	2/600	75m x 20m	3.5m	5250
<u>D-6</u>	2/825	75m x 20m	3.5m	5250
<u>D-7</u>	3/225	75m x 20m	3.5m	5250
<u>D-8</u>	3/500	75m x 20m	3.5m	5250
<u>D-9</u>	3/700	75m x 20m	3.5m	5250
<u>D-10</u>	3/875	75m x 20m	3.5m	5250
<u>D-11</u>	7/300	75m x 20m	3.5m	5250
<u>D-12</u>	7/450	75m x 20m	3.5m	5250
<u>D-13</u>	7/700	75m x 20m	3.5m	5250
<u>D-14</u>	8/325	75m x 20m	3.5m	5250
<u>D-15</u>	8/525	75m x 20m	3.5m	5250
<u>D-16</u>	9/025	75m x 20m	3.5m	5250
<u>D-17</u>	9/550	75m x 20m	3.5m	5250
<u>D-18</u>	10/200	75m x 20m	3.5m	5250
<u>D-19</u>	10/525	75m x 20m	3.5m	5250
<u>D-20</u>	10/725	75m x 20m	3.5m	5250
<u>Total Muck Disposal Capacity</u>				<u>105000</u>

Remarks: The average height is taken to be around 3.5 m for a muck dumping site and an average capacity of dumping site comes out to be 5250 cum. For the amount of muck generated for disposal 20 dumping sites have been proposed.



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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 = 80 m

Trench excavation in dense soils

Quantity = $1 \times 80\text{m} \times 1.40\text{m} \times 0.60\text{m} = 67.20 \text{ cum}$

Amount = $67.20 \text{ cum} @ \text{Rs. } 332/\text{cum} = \text{Rs. } 22310$

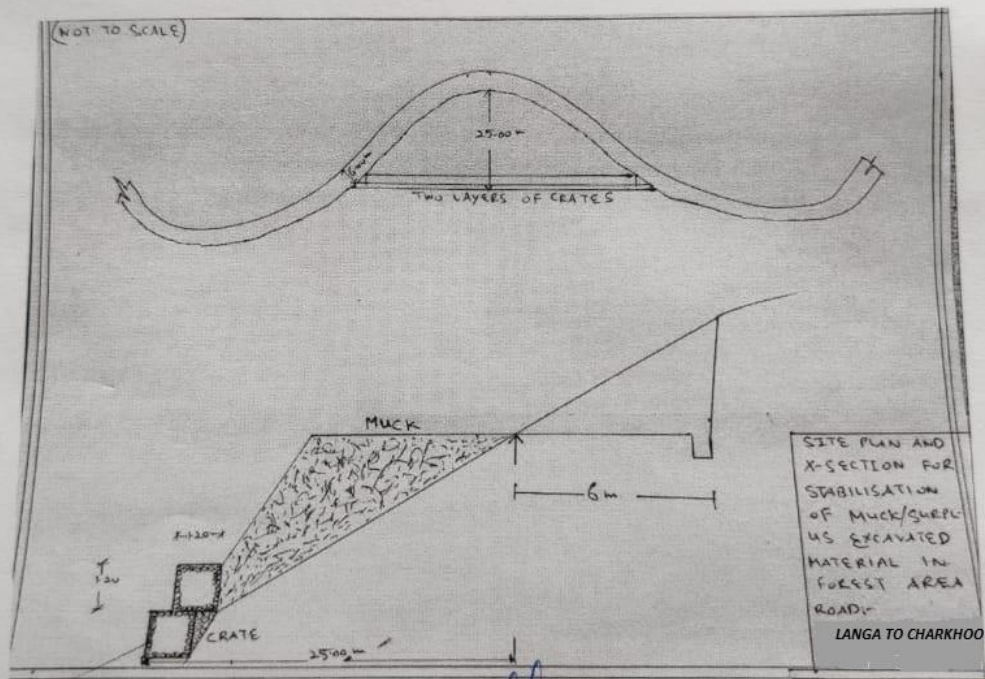
For two layered crated wall

Quantity = $2 \times 80\text{m} \times 1.2\text{m} \times 1.2\text{m} = 230.40 \text{ cum}$

Amount = $230.40 \text{ cum} @ \text{Rs. } 1200/\text{cum} = \text{Rs. } 276480$

Total amount for two layered crated wall at a dumping site = $22310 + 276480 = \text{Rs. } 298790$

Total amount for two layered crated wall at 20 dumping sites = $20 \times 298790 = \text{Rs } 5975800$



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