

Full Title of the Project: Construction of road from Mari to Dhakikote, Part-I Pkg. No. JK14-440
File No: FP/JK/ROAD/46510/2020
Date of Proposal: 01/07/2020

MUCK DISPOSAL PLAN

During the execution of various components of the project, muck will be generated from rock and earth cutting which shall be dumped in designated areas to avoid the loss to ecology. Hence a detailed muck disposal plan is submitted.

1. QUANTITY OF MUCK GENERATED AND ITS REUSE

Total quantity of muck/debris generated due to project shall be **282090 cum** as per DPR. Out of total muck generated, 50% i.e., **141045 cum** shall be utilized for embankment construction, filling behind culverts, abutments and Retaining walls which are to be constructed during the project execution. Moreover the hard rock portion of excavated earth will be utilized for the masonry works in Breasts walls and Retaining walls. It leaves **141045 cum** of muck to be disposed off. The muck shall be properly disposed on the slopes and retained by way of providing wire crates retaining walls.

2. DETAILS OF IDENTIFIED MUCK DISPOSAL SITES

Various sites identified for the disposal of muck have been shown in the table below.


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TABLE: Muck Disposal sites

S No	LOCATION	LENGTH (in m)	WIDTH (in m)	AREA (in Ha)	REMARKS
1	RD 1/375	50	30	0.15	Shown in GPS Map
2	RD 2/500	100	50	0.50	Shown in GPS Map
3	RD 3/475	30	40	0.12	Shown in GPS Map
4	RD 3/850	50	50	0.25	Shown in GPS Map
5	RD 4/075	50	50	0.25	Shown in GPS Map
6	RD 4/925	50	30	0.15	Shown in GPS Map
7	RD 7/150	75	60	0.45	Shown in GPS Map
8	RD 7/350	50	50	0.25	Shown in GPS Map
9	RD 8/150	75	40	0.30	Shown in GPS Map
10	RD 8/750	25	50	0.125	Shown in GPS Map
11	RD 9/575	50	60	0.30	Shown in GPS Map
12	RD 10/325	50	40	0.20	Shown in GPS Map
13	RD 10/475	50	60	0.30	Shown in GPS Map
14	RD 10/775	75	40	0.30	Shown in GPS Map
15	RD 11/050	25	30	0.075	Shown in GPS Map
16	RD 11/350	50	30	0.15	Shown in GPS Map
17	RD 11/425	50	50	0.25	Shown in GPS Map
18	RD 12/675	50	40	0.20	Shown in GPS Map
19	RD 12/950	25	45	0.1125	Shown in GPS Map
20	RD 13/200	50	30	0.15	Shown in GPS Map
21	RD 13/700	25	40	0.10	Shown in GPS Map
22	RD 15/400	30	20	0.06	Shown in GPS Map
23	RD 16/150	40	30	0.12	Shown in GPS Map
24	RD 16/500	40	30	0.12	Shown in GPS Map
		TOTAL AREA		4.9825 Ha or 49825 sqm	

For an average height of 3m , the capacity of muck disposal sites come out be $49825 \times 3 = 149475$ cum, which is sufficient to safely dispose off 141045 cum muck generated.

DETAILED ESTIMATE FOR PROVISION OF WIRE CRATES AND COMPACTION OF FILL TO RETAIN
THE MUCK GENERATED DURING EARTH CUTTING

Typical estimate for dumping site of size 50x40 m

1. Wire crates

No. of (6mx1.2mx1.2m) size crates required = 8

Cost 8no.x8.64 @ Rs 1000/- = **Rs 69120/-**

2. Filling and compaction of muck

Quantity of muck = $50 \times 34 \times 3.50 = 5950 \text{ cum}$ @ Rs 40.00/cum

= **Rs 238000/-**

Total = **Rs 307120/-**

= **Rs 3.07 lacs per point**

G. total for 24 no. dumping points = Rs 73.68 lacs

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