

## **MUCK DISPOSAL PLAN FOR ADDITIONAL ROADWAY FOR UP-GRADATION OF ROAD T05- SUPPLY MORH TO KAINTHGALI**

### **1. Muck Disposal Plan**

Muck disposal plan is for the upgradation of road by which muck would be generated. The excavation shall result in large quantity of excavated material i.e. muck which have to be evacuated, disposed off and roller compacted or laid on mild slopes with the excavation work to such designated areas where the muck piles do not substantially interfere with either environment / ecology or the river flow regime and do not cause turbidity impairing the quality of water. The disposal of muck has to be scientifically planned keeping in view the economic aspects necessitating nearness to the muck generating component of work, which understandably reduce the travel time of dumpers, less interference to surface flow and ground water aquifer and disposition of habitation.

Based on the quantities of excavation a muck management plan, therefore, has been formulated to manage the disposal of muck and restore such areas from further degradation of the environment. During construction of the project, quantities of excavation will be carried out and shall be dumped in designated areas to provide stable slopes.

#### **Brief History:-**

1. Pardhan Mantari Gram Sadak Yojana (PMGSY), Centrally Sponsored Scheme (CSS) under Ministry of Rural Road and Development Ministry has been entrusted with the up-gradation of T05-Supply Morh to Kainthgali and geometric improvement of the road.
2. There is requirement of widening of road to improve the geometric of the road from 9/200 to 14/750, 14/900 to 16/320, 16/720 to 17/450, 19/250 to 23/50, 23/480 to 23/770 and 27/200 to 27/420 where additional land is required to pass through forest area.

#### **Muck disposal plan for Muck dumping site-I & II**

Approximately 10000 cum of muck has to be disposed of for the proposed widening of road project i.e. from 9/200 to 17/800. In this quantity of muck approx 7500 cum of muck will be used for embankment filling and behind the R/wall, abutments and wing wall of culverts and rest approx 2500 muck will be disposed of at muck point 1 and 2 at RD 11/225 and 11/835 for which an area of 0.25Ha and 0.25Ha has been proposed. Two layered Crated wall structure will be constructed at the border of proposed muck dumping site so that it cannot be spread in other area.

### Muck disposal plan for Muck dumping site-III.

Approximately 6500 cum of muck has to be disposed of for the proposed widening of road project i.e. from 19/250 to 27/420. In this quantity of muck approx 4000 cum of muck will be used for embankment filling and behind the R/wall, abutments and wing wall of culverts and rest approx 2000 muck will be disposed of at muck point 3 at RD 19/790 for which an area of 0.25 Ha. has been proposed. Two layered Crated wall structure will be constructed at the border of proposed muck dumping site so that it cannot be spread in other area. ,

S No	Location of Dumping Place	Length, Width of Dumping Place (Area in sqm)	Height of Dump Expected (m)	Quantity of Muck that can be Disposed (cum)
(1)	(2)	(3)	(4)	(5) = (3) x (4)
1	11/225	50 x 50 = 2500	3	7500
2	11/835	50 x 50 = 2500	3.2	8000
3	19/790	50 x 50 = 2500	3	7500
<b>Total</b>				<b>23000</b>

## Engineering Measures for Stabilization of Muck Dumping Sites in Forest Area.

Estimate for Construction of Crated Wall to protect dumping sites of Surplus Muck Material in Forest area as per Engineering Measures.

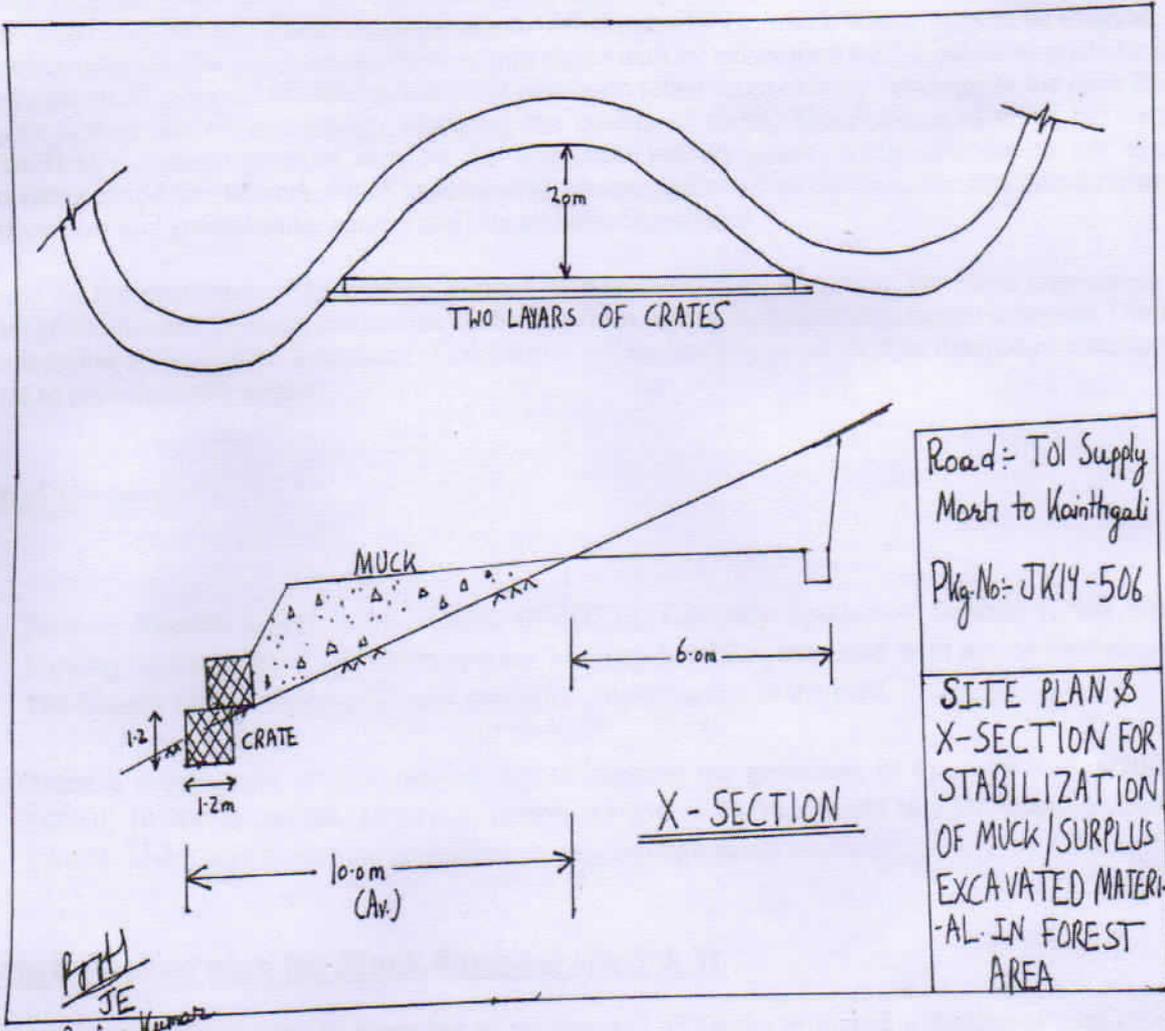
Length of Crated Wall	=	60 mtr.
Trench Excavation in Dense Soil for structures	=	1 x 60 mtr. x 1.4 mtr. x 0.6 mtr.
	=	50.40 Cum @ Rs. 332/Cum
	=	Rs. 16732.80 (say Rs. 16733/-)

For Two layered Crated Wall,

Quantity	=	2 x 60 mtr. x 1.2 mtr. x 1.2 mtr = 172.80 Cum
Amount	=	172.80 Cum @ Rs. 1200/Cum (including cost of crates andlabour for handling of availble stones)
	=	Rs. 207360/-

Total amount for 60 mtr. Two Layered Crated Wall	=	Rs.(16733 + 207360)
	=	Rs. 224093/-

Total amount for 60 mtr. Two Layered Crated Wall for Three Dumping Points	=	3 Nos. x Rs. 224093
	=	Rs. 622080/-



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