

(07)

DETAILED COMPREHENSIVE MUCK DISPOSAL PLAN

PROJECT: Upgradation of R-A-M(Reasi Arnas Maohre) Road(57-68km) to NHDL Classification

Quantity of Muck to be generated during execution of the project=337056.01 cum

Estimated Qty. of hard rock=33705.60 cum

Estimated Qty. of soil material bolder portion=67411.21 cum

Estimated Qty of soft rock=235939.20 cum

Estimated Qty. to be used at site including filling of embankments =75446.70 cum

Estimated Qty. left for disposal =261609.31 cum

Estimated Qty. on the basis of soil compaction factor (25%of 261609.31cum) =65402.3275 cum

Volume/capacity of dumping sites required for muck disposal=327011.6375 cum


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110 RCC

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110 Road Constr Coy (GREF)

▼ **Plan related to Engineering Measures for Stabilisation of Muck Dumping Sites in Forest Area**

Typical Estimate for construction of crated wall to protect dumping sites of surplus muck/Excavated material in Forest Area as per Engineering Measures.

Taking Length of Crated wall=60mtrs

Trench excavation in dense soil for structures = $1 \times 60\text{mtr} \times 1.4\text{mtr} \times 0.6\text{ mtr}$

=50.40Cum @Rs. 248.90/Cum

=Rs. 12544.56

For Two layered crated wall,

Quantity= $2 \times 60\text{mtr} \times 1.2\text{mtr} \times 1.2\text{mtr}$ =172.80 Cum

Amount=172.8 Cum @ Rs.3153.29/Cum

=Rs.544888.50

(Including cost of crates and labour for handling of available stone)

TOTAL COST=Rs.557433.06


Escalation charges upto 2021-2022 @ 50% of cost on SSR Rates=RS.278716.53

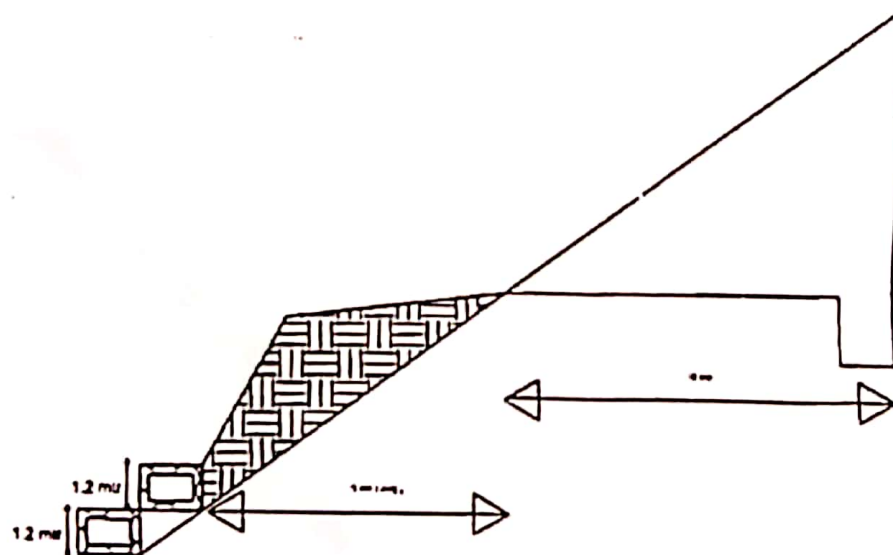
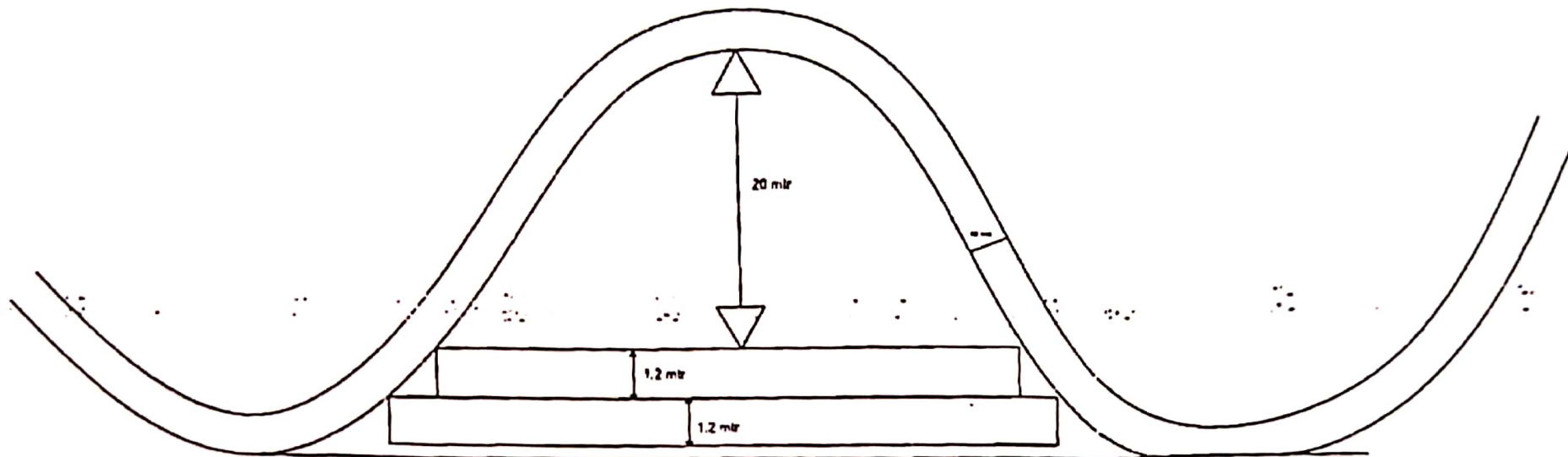
Total amount for 60.00 mtr, Two layered crated wall for the dumping yard

=Rs. 836149.59


For 05 Nos Dumping Yards = 05 Nos.* Rs.836149.59 = Rs.4180747.95

=Rs.41.81 Lacs


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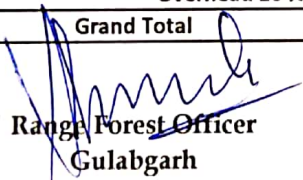


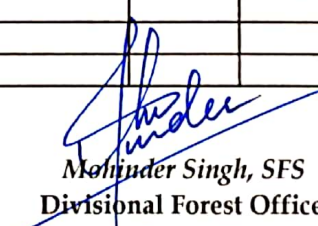
TYPICAL SITE PLANE AND X-SECTION
FOR STABILIZATION OF
MUCK / SURPLUS EXCAVATED MATERIAL
IN DUMPING POINT IN FOREST AREA
SCALE :- SITE PLANE : 1 CM = 10 MTR
X - SECTION : 1 CM = 10 MTR


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Biological measures for stabalization of muck duming site (per hectare area) for Upgradation of Reasi-Arnas-Mahore road to NHDL specifications from Km 57 to Km 68 in 31 BRTF area under Project SAMPARK.

Area= 1.65ha					
S. No	Item of work	Unit	Quantity	Rate per ha.	Amount (in lac)
1	Fencing: Using sqaure fence psot conforming to product code PCFP-3 at spacing of 10" & 5 Strands of Galvanzied Barbed wire with 2 Criss cross conforming to the product code GA-BW all fence post be fixed in the cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 Stone aggregate 40 mm nominal szie) block of size 1'6"x1x1"	Rft	2145	100	2.145
2	Afforestation (1st year)				
i	Plantation: Poly bagged planting of fast growing soil binding local species (trees/ Shrubs) in pits of szie (45x45x45) cm in straggered fashion along the fence line of size	Nos.	2475	29.34	0.726
ii	Agave: Agave bulbs planted between interspaces of plants open spaces and along the fence line of size	Nos.	6600	15.45	1.020
iii	Grass slips(Soil binding grasses viz: vtivers, Napier Sacharum, Munja and Arundo donax	Nos.	6600	6.35	0.419
iv	Cutting: Ipomea/ Vitex/Popular/ Salix/ Mulbery (area specific)	Nos.	1650	6	0.099
v	Seed ball: Broad casting /dibbling of seed balls	Nos.	1650	2.35	0.039
	Total				2.303
3	Mainteance for 9 years 2nd year @ 25 % +3rd year @ 10 % 4th year 10th year 7x 5% = 70 % of afforestation	Year			3.595
4	Geo taxtile mat	Sq. M	1650	300	4.95
	Total (1+2+3+4)				12.993
5	Overhead 10 % of total				1.299
	Grand Total				14.292


Range Forest Officer
Gulabgarh


Mohinder Singh, SFS
Divisional Forest Officer
Mahore Forest Division
Dharmari