

(67)

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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► **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 = $1 \times 60\text{mtr} \times 1.4\text{mtr} \times 0.6\text{ mtr}$

$$\begin{aligned} &= 50.40\text{Cum} @ \text{Rs. } 248.90/\text{Cum} \\ &= \text{Rs. } 12544.56 \end{aligned}$$

For Two layered crated wall,

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

Amount = $1720.8\text{ Cum} @ \text{Rs. } 3153.29/\text{Cum}$

$$= \text{Rs. } 544888.50$$

(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

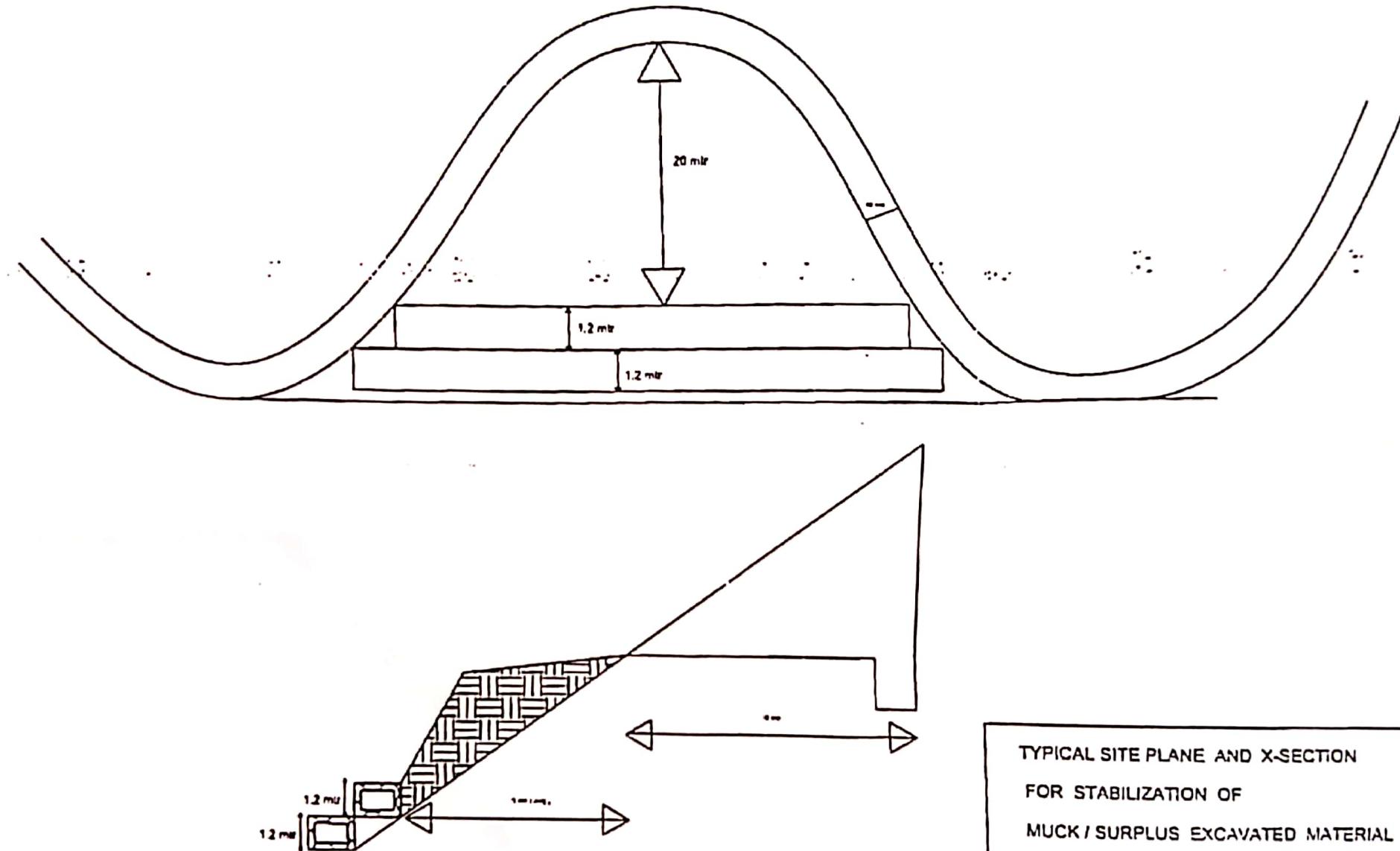
$$= \text{Rs. } 836149.59$$

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

$$= \text{Rs. } 41.81 \text{ Lacs}$$



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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 lacs)
1	Fencing: Using square fence post conforming to product code PCFP-3 at spacing of 10" & 5 Strands of Galvanized 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 size) 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 size (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 /diblling 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 textile mat	Sq. M	1650	300	4.95
Total (1+2+3+4)					12.993
5	Overhead 10 % of total				
Grand Total					1.299
Grand Total					14.292

Range Forest Officer
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