

DETAILED COMPREHENSIVE MUCK DISPOSAL PLAN

**PROJECT: Construction Of PMGSY Road From Angralla To Gulabgarh (addl.
Length 1.5km) Package No. JK14- 727 Phase XII**

Quantity of muck to be generated during execution of the project = 13483.46 cum.

Estimated Qty. of hard rock @ 10% = 1348.346 cum

Estimated Qty. of ordinary rock @ 10% = 1348.346 cum

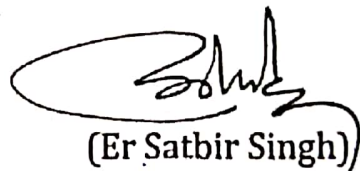
Estimated Qty. to be used at site including filling of embankments etc. @10% = 1348.346cum

Estimated Qty. left for disposal = $13483.46 - (1348.346 + 1348.346 + 1348.346) = 9438.422$ cum

Estimated Qty. on the basis of soil compaction factor (35% of 9438.422 cum) = 3303.447 cum

Volume/Capacity of dumping sites required for muck disposal = $9438.422 + 3303.447$

= 12741.869 cum.



(Er Satbir Singh)
Executive Engineer
PMGSY Division
Mahore

**Plan Related to Engineering Measures for Stabilization 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 = 24 mtrs.

Trench excavation in dense soil for structures = 1 x 24 mtr. x 1.40 mtr. x 0.60 mtr.

= 20.16 Cum. @ Rs. 363/Cum.

= Rs. 7318.08

For Two layered crated wall,

Quantity = 2 x 24 mtr. x 1.20 mtr. x 1.20 mtr. = 69.12 Cum.

Amount = 69.12 Cum @ Rs. 1477.50/Cum.

= Rs. 102124.80

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

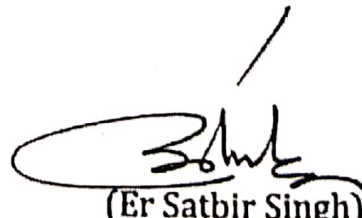
Total Amount for 24.00 mtrs. Two layered crated wall for the dumping yard

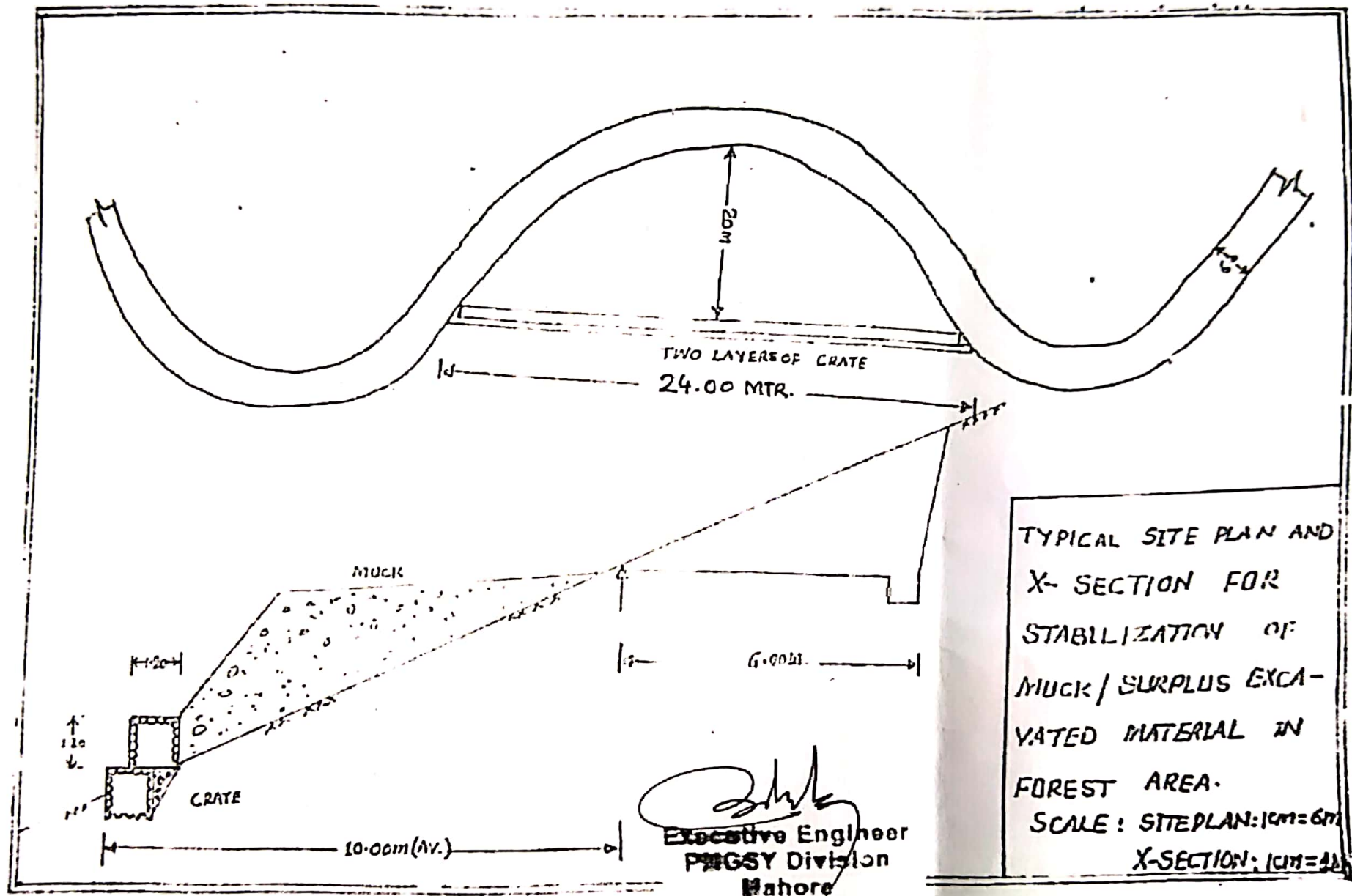
= (Rs. 7318.08+ Rs. 102124.80)

= Rs. 109442.88

For 01 Nos. Dumping Yards = 01 Nos. x Rs.109442.88 = Rs. 109442.88

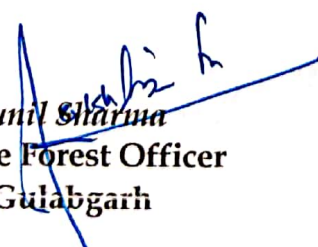
=Rs. 1.09 Lacs

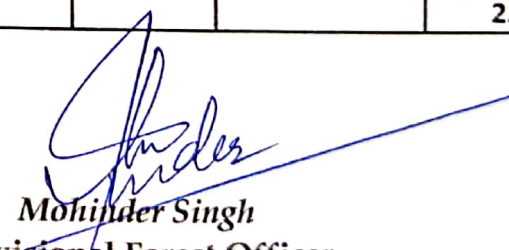

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Biological measures for slope stablization of Angralla to Gulabgarh Road under PMGSY

Site No. -1		Area= 0.05 Ha			
S. No	Item of work	Unit	Quantity	Rate per ha.	Amount (in Lacs)
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	300	100	0.300
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.	600	29.34	0.176
ii	Agave: Agave bulbs planted between interspaces of plants open spaces and along the fence line of size	Nos.	0	15.45	0.000
iii	Grass slips(Soil binding grasses viz : vtivers, Napier Sacharum, Munja and Arundo donax	Nos.	200	6.35	0.013
iv	Cutting: Ipomea/ Vitex/Popular/ Salix/ Mulbery (area specific)	Nos.	300	6	0.018
v	Seed ball: Broad casting /dibbling of seed balls	Nos.	500	2.35	0.012
	Total				0.218
3	Mainteance for 9 years 2nd year @ 25 % +3rd year @ 10 % 4th year 10th year 7x 5% = 70 % of afforestation	Year			0.153
4	Geo taxtile mat	Sq. M	500	300	1.50
	Total (1+2+3+4)				2.171
5	Overhead 10 % of total				0.217
	Grand Total				2.389


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