

**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 = 60 mtrs.

Trench excavation in dense soil for structures = $1 \times 60 \text{ mtr.} \times 1.40 \text{ mtr.} \times 0.60 \text{ mtr.}$
= 50.40 Cum. @ Rs. 363/Cum.

= Rs. 18295.00

For Two layered crated wall,

Quantity = $2 \times 60 \text{ mtr.} \times 1.20 \text{ mtr.} \times 1.20 \text{ mtr.} = 172.80 \text{ Cum.}$

Amount = 172.80 Cum @ Rs. 1477.50/Cum.

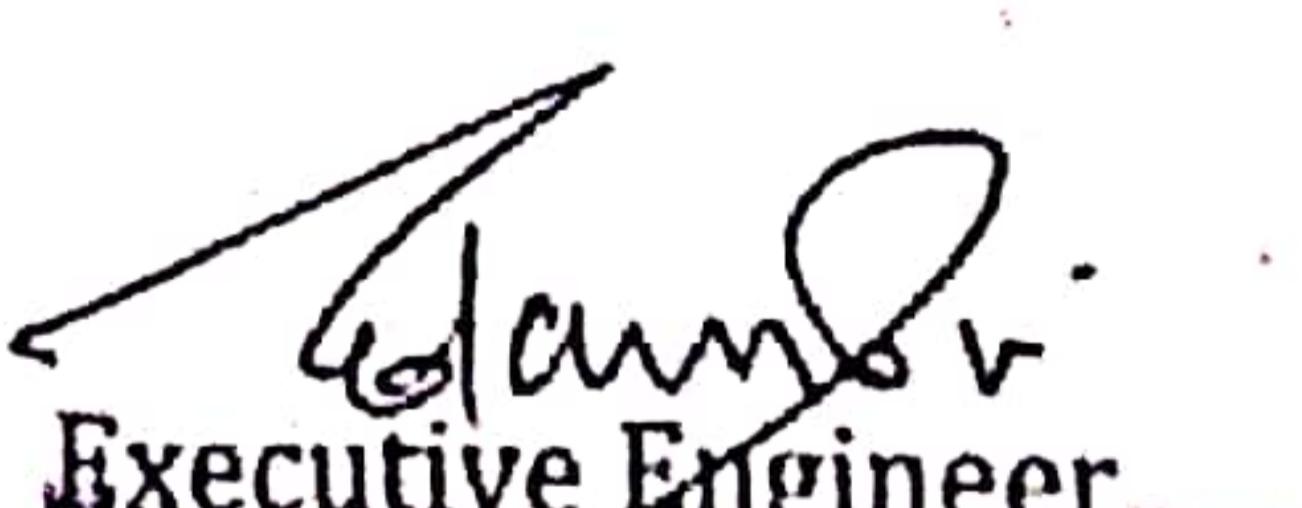
= Rs. 255312.00

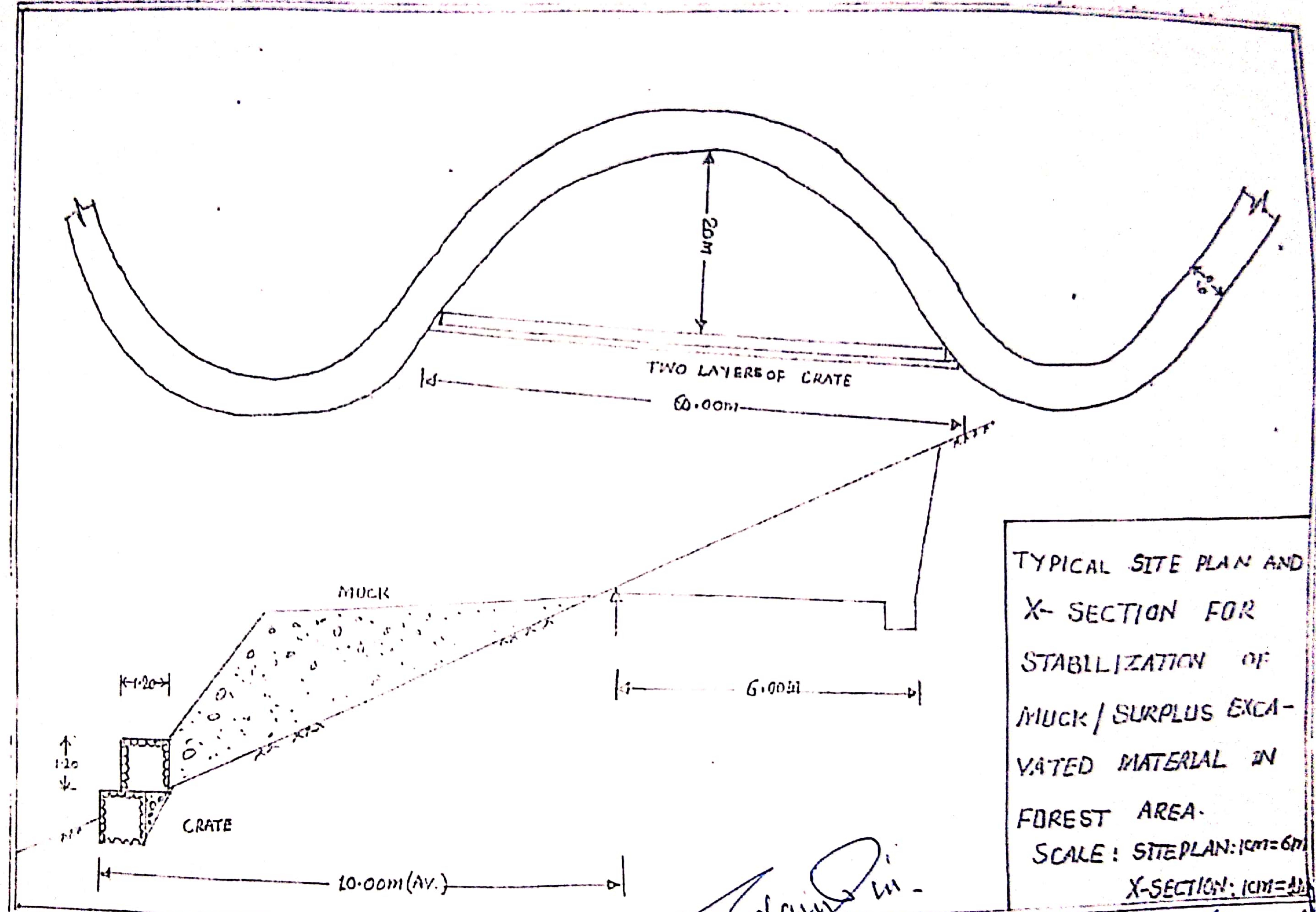
(Including cost of crates and labour for handling of available stone)

Total Amount for 60.00 mtrs. Two layered crated wall for the dumping yard

= (Rs. 18295.00 + Rs. 255312.)
= Rs. 273607.00

For 30 Nos. Dumping Yards = $30 \text{ Nos.} \times \text{Rs.} 273607.00 = \text{Rs.} 8208210.00$
= Rs. 82.08 Lacs


Executive Engineer
Executive Engineer
IPMSSY Division
Mahore



TYPICAL SITE PLAN AND
X- SECTION FOR
STABILIZATION OF
MUCK / SURPLUS EXCA-
VATED MATERIAL IN
FOREST AREA.
SCALE : SITEPLAN: 1CM=6M
X-SECTION: 1CM=6M

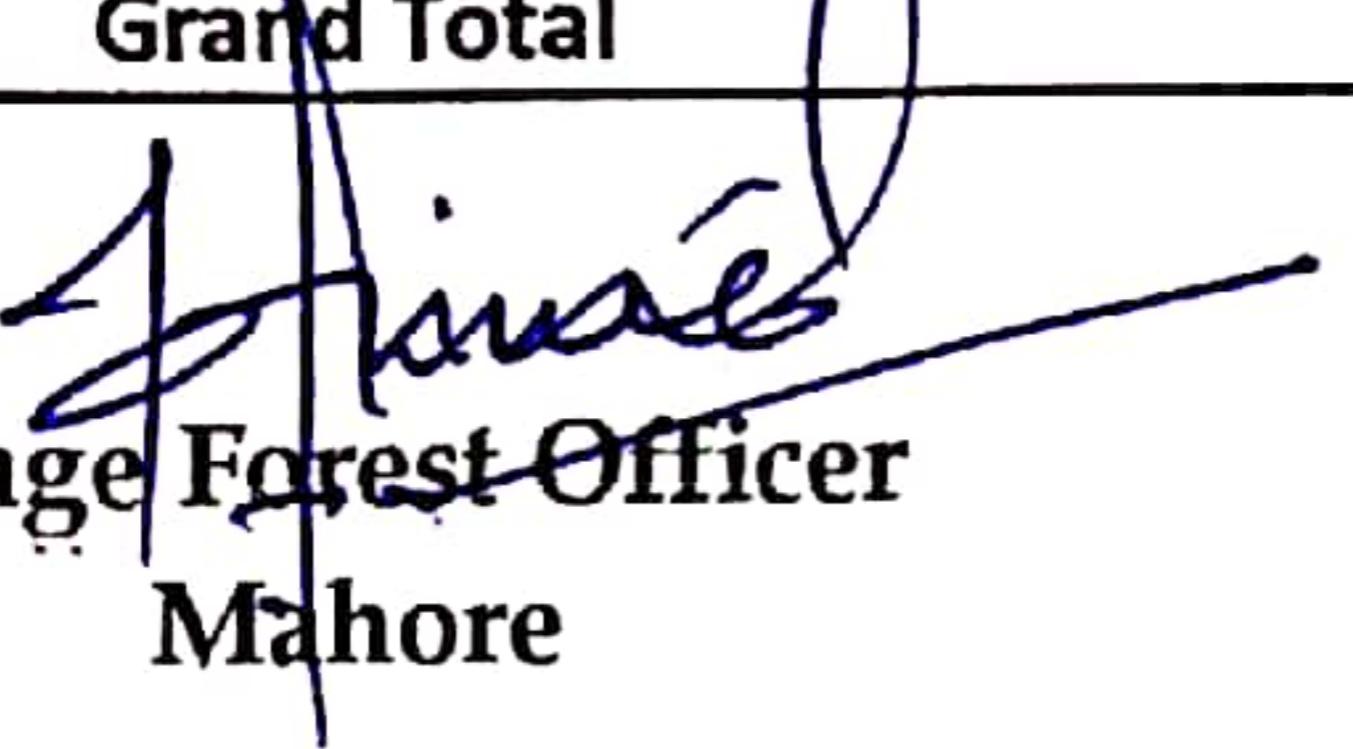
Executive Engineer
PMGSY Division
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Edmund
REE

**Biological measures for stabalization of muck duming site (per hectare area) for Const. of Road
from Ganjote to Phallni II for Proposal No. FP/JK/ROAD/48778/2020**

Area= 8.40 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 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 szie) block of size 1'6"x1x1"	Rft	10920	100	10.920
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.	12600	29.34	3.697
ii	Agave: Agave bulbs planted between interspaces of plants open spaces and along the fence line of size	Nos.	33600	15.45	5.191
iii	Grass slips(Soil binding grasses viz: vtivers, Napier Sacharum, Munja and Arundo donax	Nos.	33600	6.35	2.134
iv	Cutting: Ipomea/ Vitex/Popular/ Salix/ Mulbery (area specific)	Nos.	8400	6	0.504
v	Seed ball: Broad casting /diblling of seed balls	Nos.	8400	2.35	0.197
	Total				11.723
3	Mainteance for 9 years 2nd year @ 25 % +3rd year @ 10 % 4th year 10th year 7x 5% = 70 % of afforestation	Year		97692	8.206
4	Geo taxtile mat	Sq. M	8400	300	25.20
	Total (1+2+3+4)				56.049
5	Overhead 10 % of total				5.605
	Grand Total				61.654


Range Forest Officer
Mahore


Divisional Forest Officer
Mahore Forest Division