DETAILED COMPREHENSIVE MUCK DISPOSAL PLAN

PROJECT : Balmatkote to Bagudass Stage Ist and 2nd Package No. JK14- 305

Quantity of muck to be generated during execution of the project = 98750 cum.

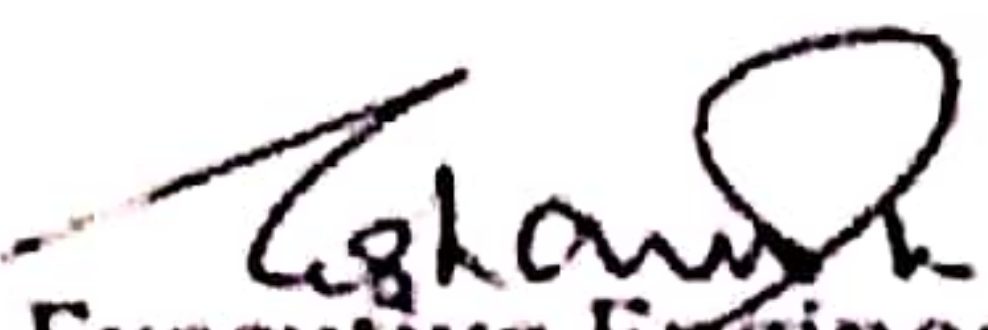Estimated Qty. of hard rock @ 15% =14812.5 cum

Estimated Qty. of ordinary rock @ 25% = 24687.5 cum

Estimated Qty. to be used at site including filling of embankments etc. @10% = 9875 cum

Estimated Qty. left for disposal = 98750 -(14812.5+24687.5+9875) = 49375 cum

Estimated Qty. on the basis of soil compaction factor (30% of 49375cum) = 14812.5cum

Volume/Capacity of dumping sites required for muck disposal = 49375+14812.5 = 64187.5cum.

Executive Engineer
Executive Engineer
PMGSY Division
Mahbore

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 x 60 mtr. x 1.40 mtr. x 0.60 mtr.

$$= 50.40 \text{ Cum. @ Rs. } 363/\text{Cum.}$$

$$= \text{Rs. } 18295.00$$

For Two layered crated wall,
Quantity = 2 x 60 mtr. x 1.20 mtr. x 1.20 mtr. = 172.80 Cum.

Amount = 172.80 Cum @ Rs. 1477.50/Cum.

$$= \text{Rs. } 255312.00$$

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

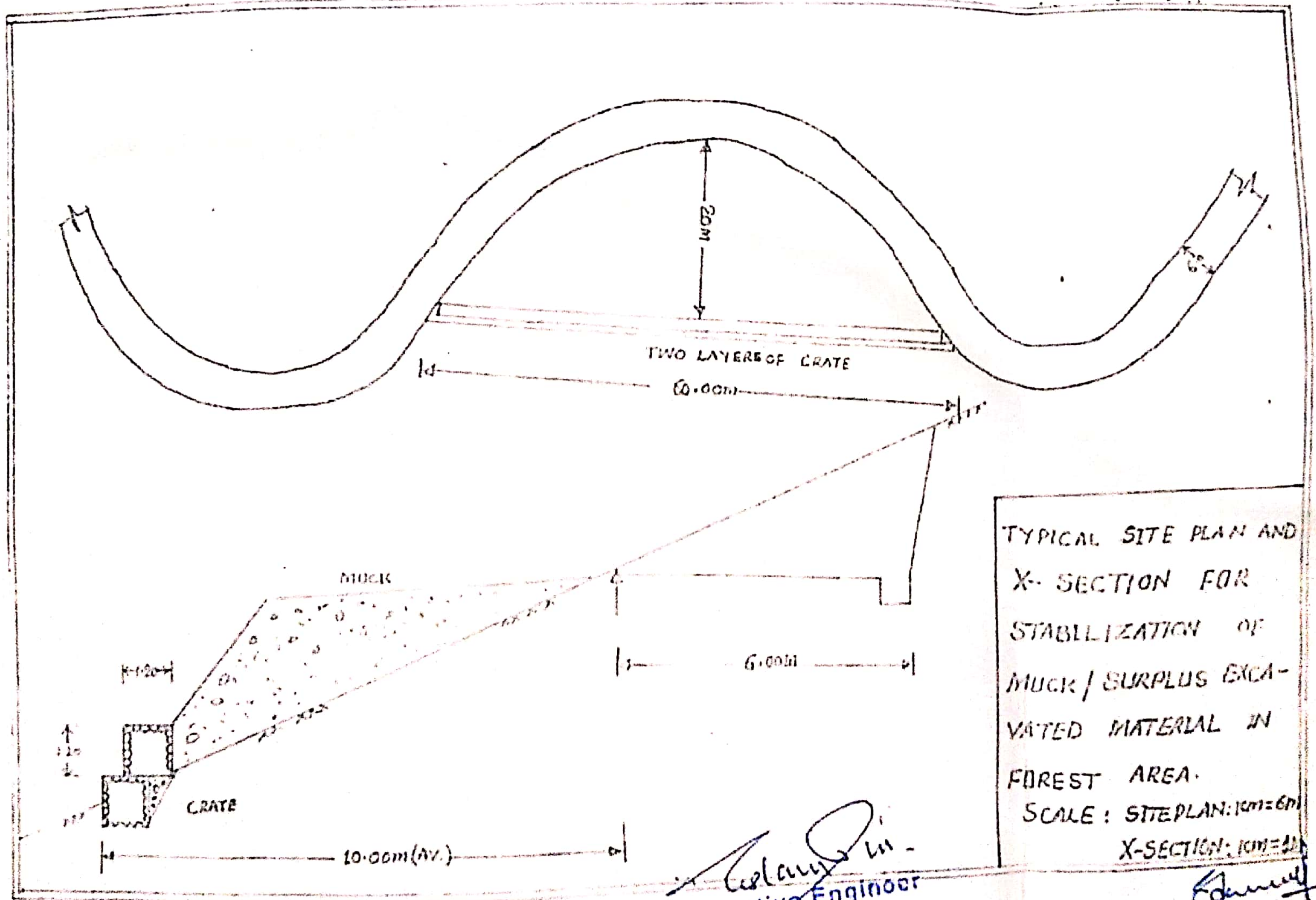Total Amount for 60.00 mtrs. Two layered crated wall for the dumping yard
$$= (\text{Rs. } 18295.00 + \text{Rs. } 255312.)$$
$$= \text{Rs. } 273607.00$$

For 08 Nos. Dumping Yards = 08 Nos. x Rs.273607.00 = Rs. 2188856.00
=Rs. 21.89 Lacs

Executive Engineer
PMGSY Division
Mahore

TWO LAYERS OF CRATE

20m

d

6.00m

MUCK

1.20m

0.60m

1.20m

CRATE

10.00m (AV.)

6.00m

TYPICAL SITE PLAN AND
X- SECTION FOR
STABILIZATION OF
MUCK / SURPLUS EXCA-
VATED MATERIAL IN
FOREST AREA.
SCALE : SITE PLAN : 1cm = 6m
X-SECTION : 1cm = 4m
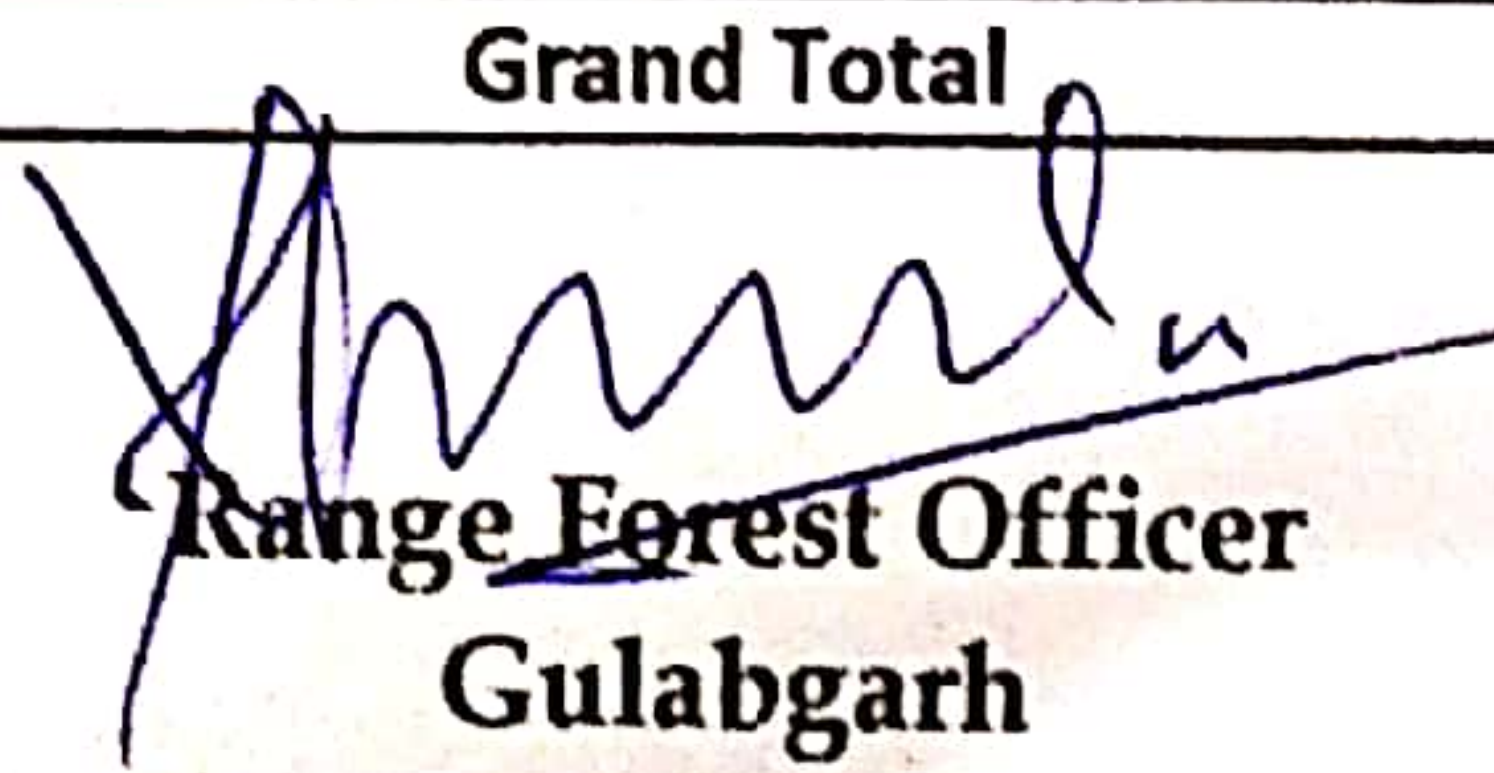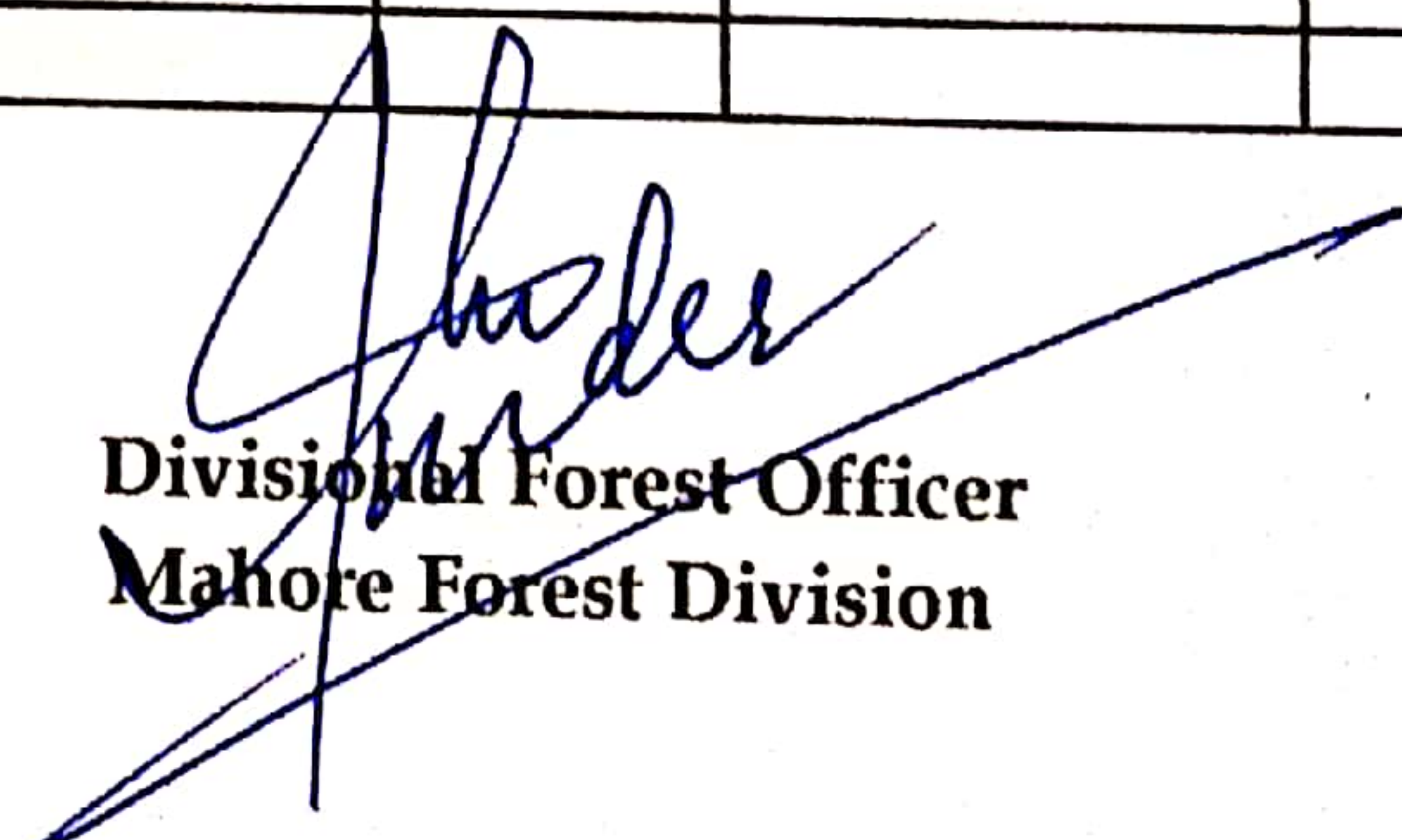
Executive Engineer
PMGSY Division
Mahore

AEE

Biological measures for stabalization of muck duming site (per hectare area) for Const. of Road from Balmatkote to Bagudass Package No. JK14-305 for Proposal No. FP/JK/ROAD/47229/2020

Area= 2.24 Ha

S. No	Item of work	Unit	Quanity	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	2912	100	2.912
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.	3360	29.34	0.986
ii	Agave: Agave bulbs planted between interspaces of plants open spaces and along the fence line of size	Nos.	8960	15.45	1.384
iii	Grass slips(Soil binding grasses viz: vtivers, Napier Sacharum, Munja and Arundo donax	Nos.	8960	6.35	0.569
iv	Cutting: Ipomea/ Vitex/Popular/ Salix/ Mulbery (area specific)	Nos.	2240	6	0.134
v	Seed ball: Broad casting /diblling of seed balls	Nos.	2240	2.35	0.053
	Total				3.126
3	Mainteance for 9 years 2nd year @ 25 % +3rd year @ 10 % 4th year 10th year 7x 5% = 70 % of afforestation	Year		97692	2.188
4	Geo taxtile mat	Sq. M	2240	300	6.72
	Total (1+2+3+4)				14.946
5	Overhead 10 % of total				1.495
	Grand Total				16.441

Range Forest Officer
Gulabgarh

Divisional Forest Officer
Mahore Forest Division