

DETAILED COMPREHENSIVE MUCK DISPOSAL PLAN

PROJECT : Kundherdhan to Mamankote Stage Ist Pacakage No. JK14- 567

Quantity of muck to be generated during execution of the project = 101970 cum.

Estimated Qty. of hard rock @ 15% = 15295 cum

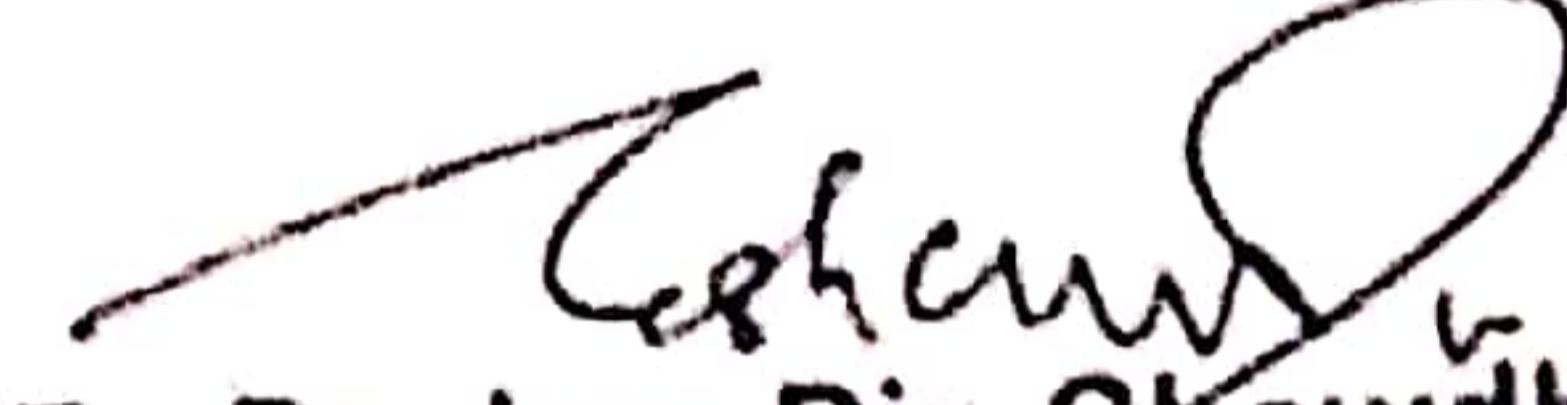
Estimated Qty of ordinary rock @ 25% = 25492 cum

Estimated Qty. to be used at site including filling of embankments etc @10% = 10197 cum

Estimated Qty. left for disposal = $101970 - (15295 + 25492 + 10197) = 50356$ cum

Estimated Qty. on the basis of soil compaction factor (40% of 50356cum) = 20142cum

Volume/Capacity of dumping sites required for muck disposal = $50356 + 20142 = 70498$ cum.



(Er. Roshan Din Chowdhary)
Executive Engineer
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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.

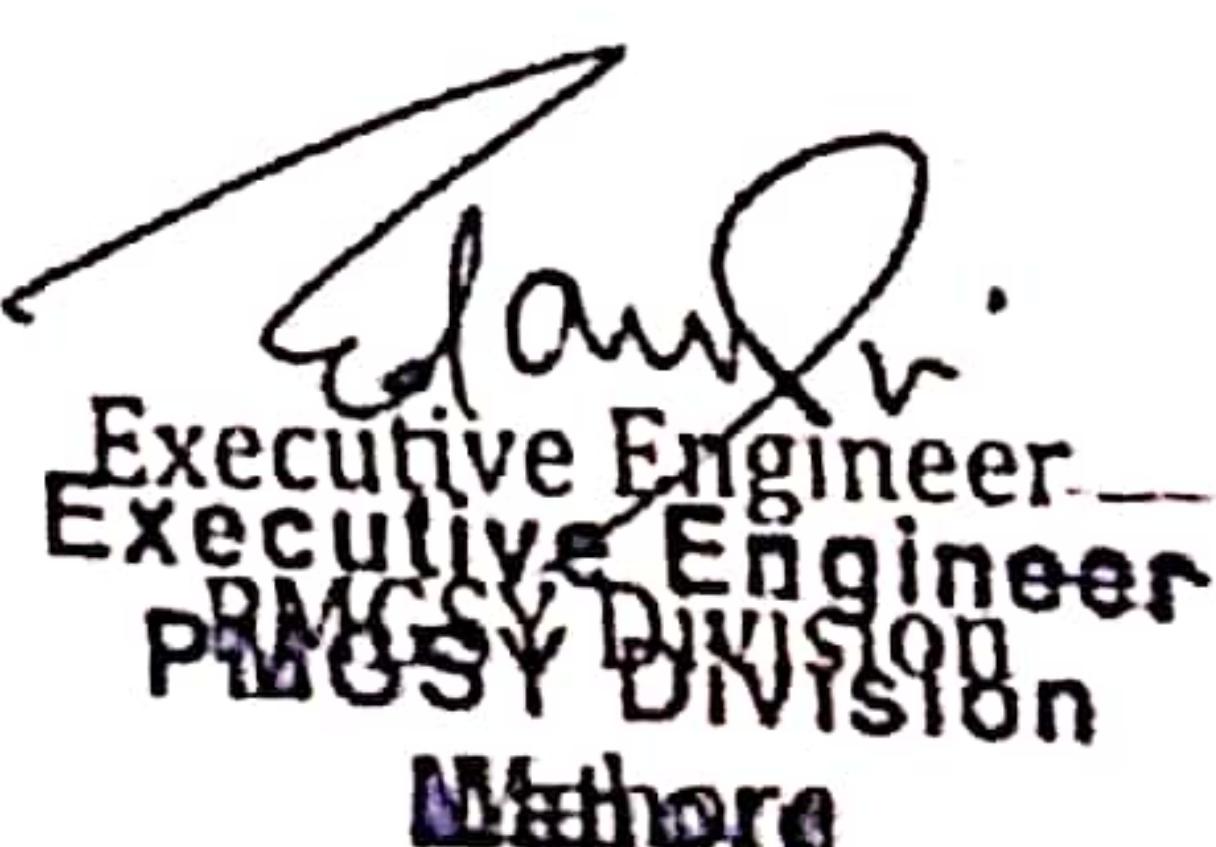
For Two layered crated wall,
Quantity = $2 \times 60 \text{ mtr.} \times 1.20 \text{ mtr.} \times 1.20 \text{ mtr.} = 172.80 \text{ Cum.}$

Amount = 172.80 Cum @ Rs. 1477.50/Cum.
= Rs. 255312.00

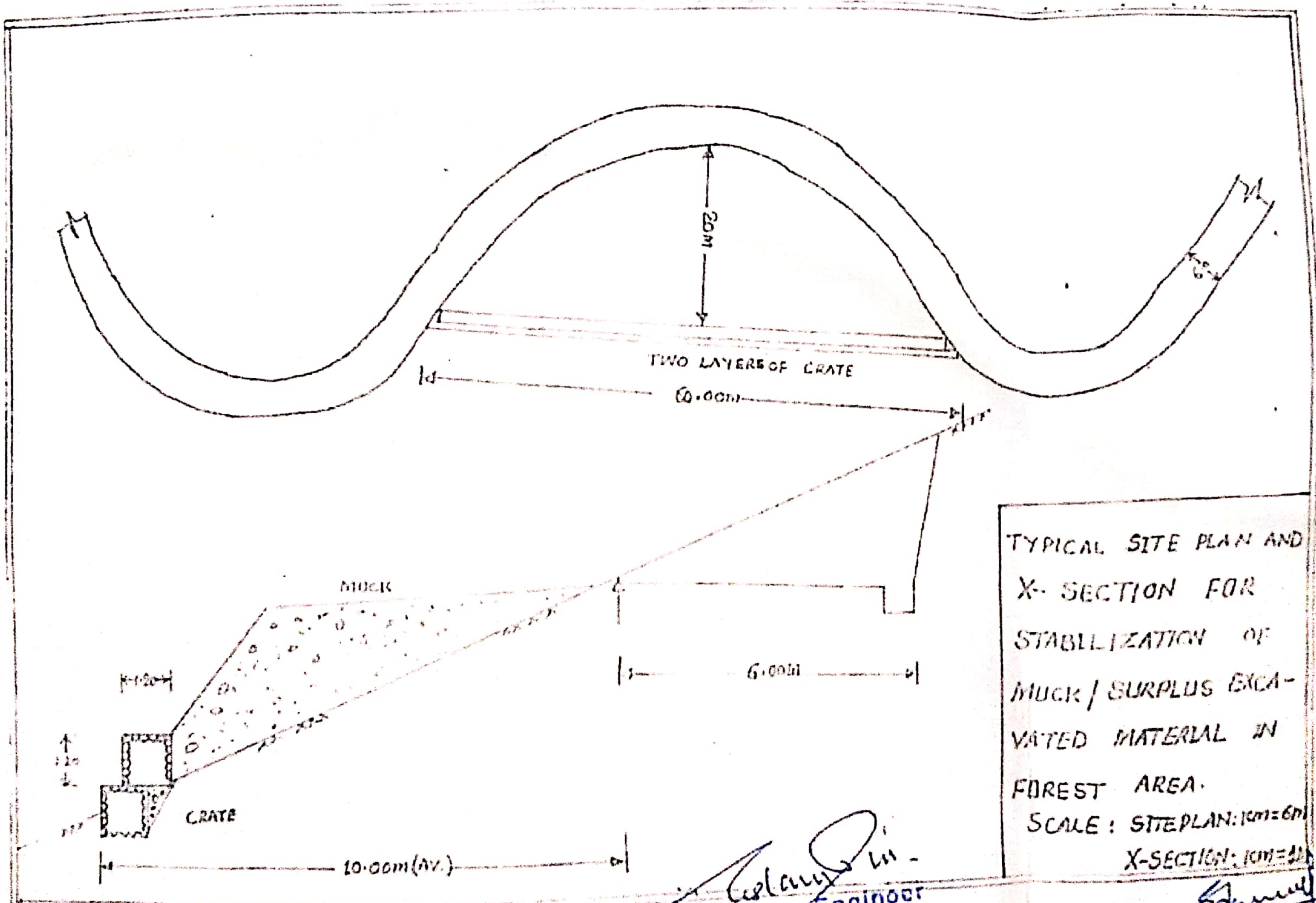
(Including cost of crates and labour for handling of available stone)

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

For 06 Nos. Dumping Yards = 06 Nos. x Rs.273607.00 = Rs. 1641642.00
=Rs. 16.42 Lacs



Executive Engineer
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RMCSY DIVISION
Mathore



TYPICAL SITE PLAN AND
 X- SECTION FOR
 STABILIZATION OF
 MUCK / SURPLUS EXCA-
 VATED MATERIAL IN
 FOREST AREA.
 SCALE : SITEPLAN: 1cm = 6m
 X-SECTION: 1cm = 3m

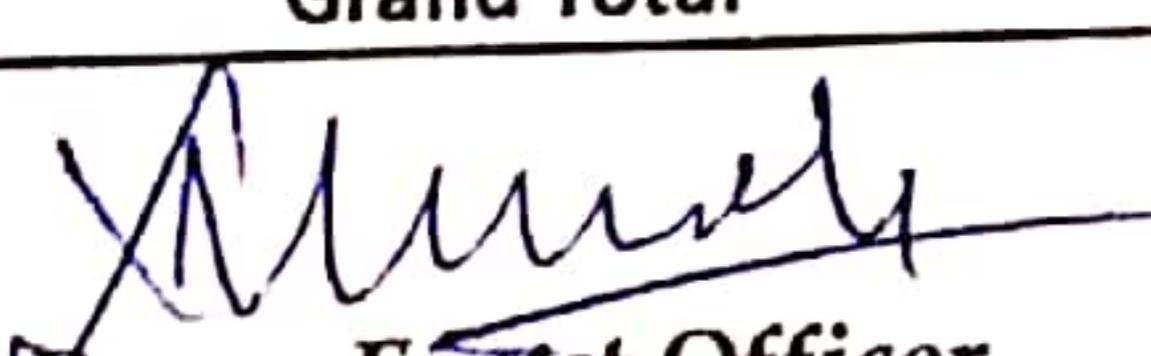
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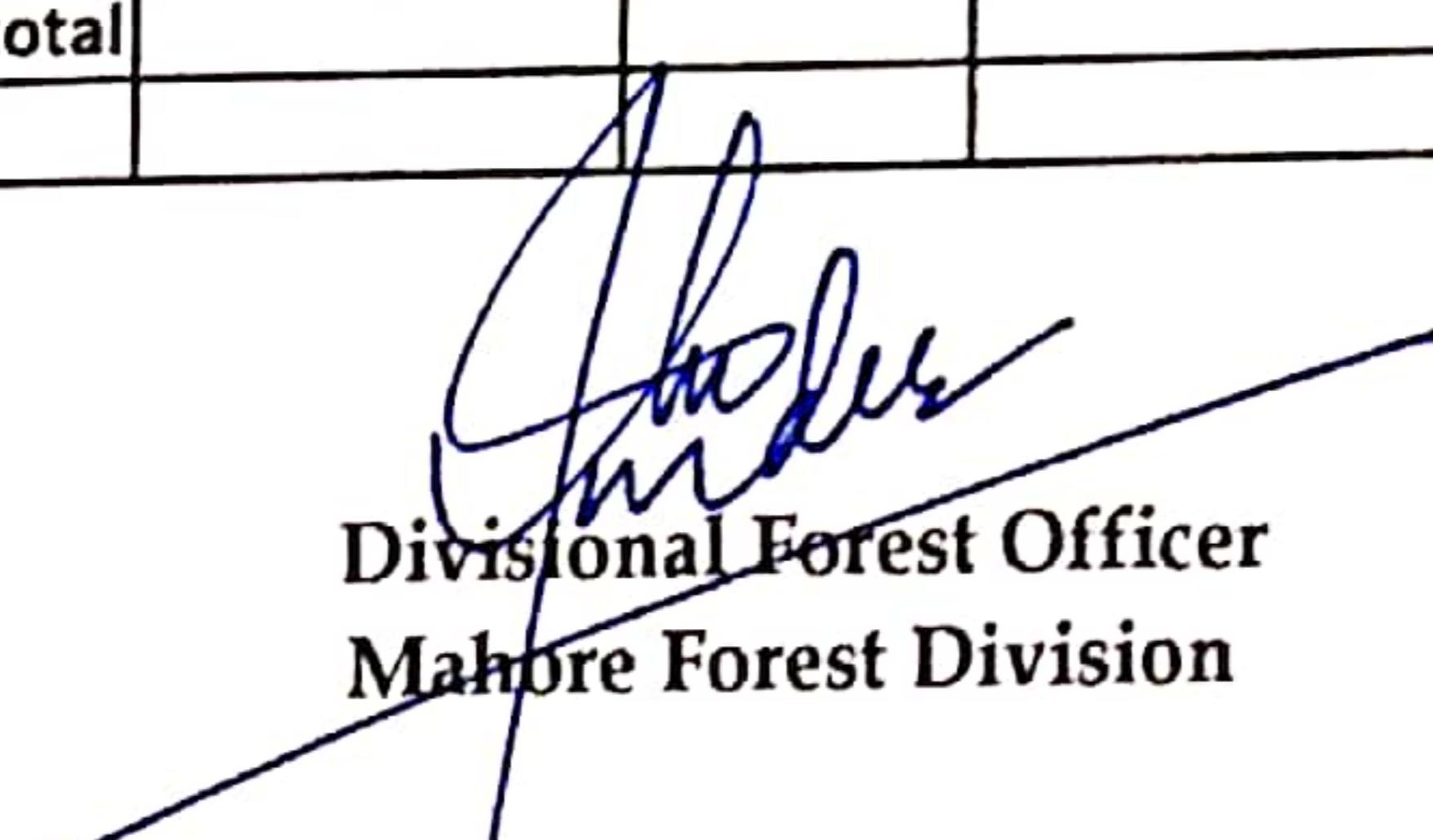
E. S. E.
 A.E.

Biological measures for stabalization of muck duming site (per hectare area) for Const. of Road
 from Kunderdhan to Mamankote Upper Package No. JK14-567 for Proposal No.
 FP/JK/ROAD/48777/2020

Area= 1.99 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 | 2587 | 100 | 2.587 |
| 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. | 2985 | 29.34 | 0.876 |
| ii | Agave: Agave bulbs planted between interspaces of plants open spaces and along the fence line of size | Nos. | 7960 | 15.45 | 1.230 |
| iii | Grass slips(Soil binding grasses viz: vtivers, Napier Sacharum, Munja and Arundo donax | Nos. | 7960 | 6.35 | 0.505 |
| iv | Cutting: Ipomea/ Vitex/Popular/ Salix/ Mulbery (area specific) | Nos. | 1990 | 6 | 0.119 |
| v | Seed ball: Broad casting /diblling of seed balls | Nos. | 1990 | 2.35 | 0.047 |
| | Total | | | | 2.777 |
| 3 | Mainteance for 9 years 2nd year @ 25 % +3rd year @ 10 % 4th year 10th year 7x 5% = 70 % of afforestation | Year | | 97692 | 1.944 |
| 4 | Geo textile mat | Sq. M | 1990 | 300 | 5.97 |
| | Total (1+2+3+4) | | | | 13.278 |
| 5 | Overhead 10 % of total | | | | 1.328 |
| | Grand Total | | | | 14.606 |


 Range Forest Officer
 Gulabgarh


 Divisional Forest Officer
 Mahore Forest Division