

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

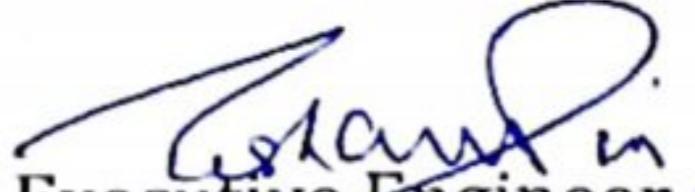
Amount = 172.80 Cum @ Rs. 1477.50/Cum.

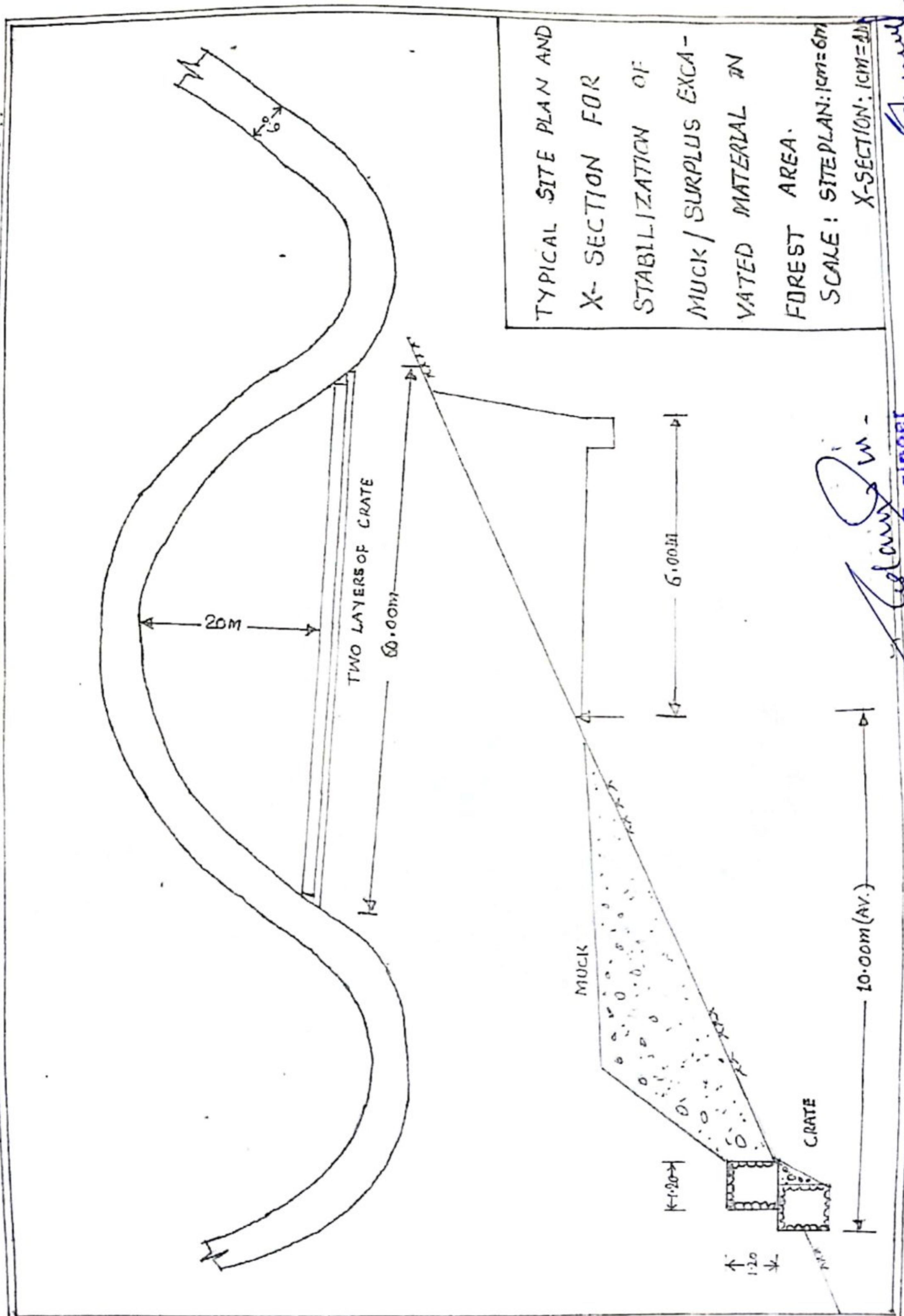
= Rs. 255312.00

(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 29 Nos. Dumping Yards = 29 Nos. x Rs.273607.00 = Rs. 7934603.00  
=Rs. 79.35 Lacs

  
Executive Engineer  
PMGSY Division  
Mahore



**Biological measures for stabalization of muck duming sites (per hectare area) for Const. of Road  
Kanthan to Sawalkote Part-II Propsoal No. FP/JK/ROAD/48666/2020**

**Area= 3.1715**

S. No	Item of work	Unit	Quantity	Rate per ha.	Amount
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	4122	100	4.122
2	<b>Afforestation (1st year)</b>				
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.	4755	29.34	1.395
ii	<b>Agave</b> : Agave bulbs planted between interspaces of plants open spaces and along the fence line of size	Nos.	12680	15.45	1.959
iii	<b>Grass slips(Soil binding grasses viz: vtivers, Napier Sacharum, Munja and Arundo donax</b>	Nos.	12680	6.35	0.805
iv	<b>Cutting</b> : Ipomea/ Vitex/Popular/ Salix/ Mulbery (area specific)	Nos.	3170	6	0.190
v	<b>Seed ball</b> : Broad casting /diblling of seed balls	Nos.	3170	2.35	0.074
	<b>Total</b>				<b>4.424</b>
3	<b>Mainteance for 9 years 2nd year @ 25 % +3rd year @ 10 % 4th year 10th year 7x 5% = 70 % of afforestation</b>	Year			3.097
4	<b>Geo textile mat</b>	Sq. M	3170	300	9.51
	<b>Total (1+2+3+4)</b>				<b>21.153</b>
5	<b>Overhead 10 % of total</b>				<b>2.115</b>
	<b>Grand Total</b>				<b>23.268</b>

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