

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.

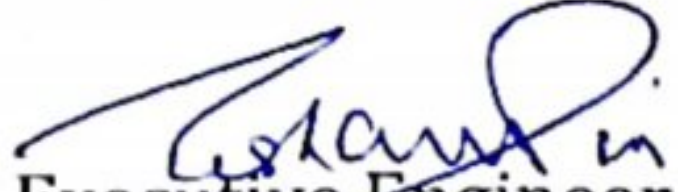
Trench excavation in dense soil for structures = $1 \times 60 \text{ mtr.} \times 1.40 \text{ mtr.} \times 0.60 \text{ mtr.}$
= 50.40 Cum. @ Rs. 363/Cum.
= Rs. 18295.00

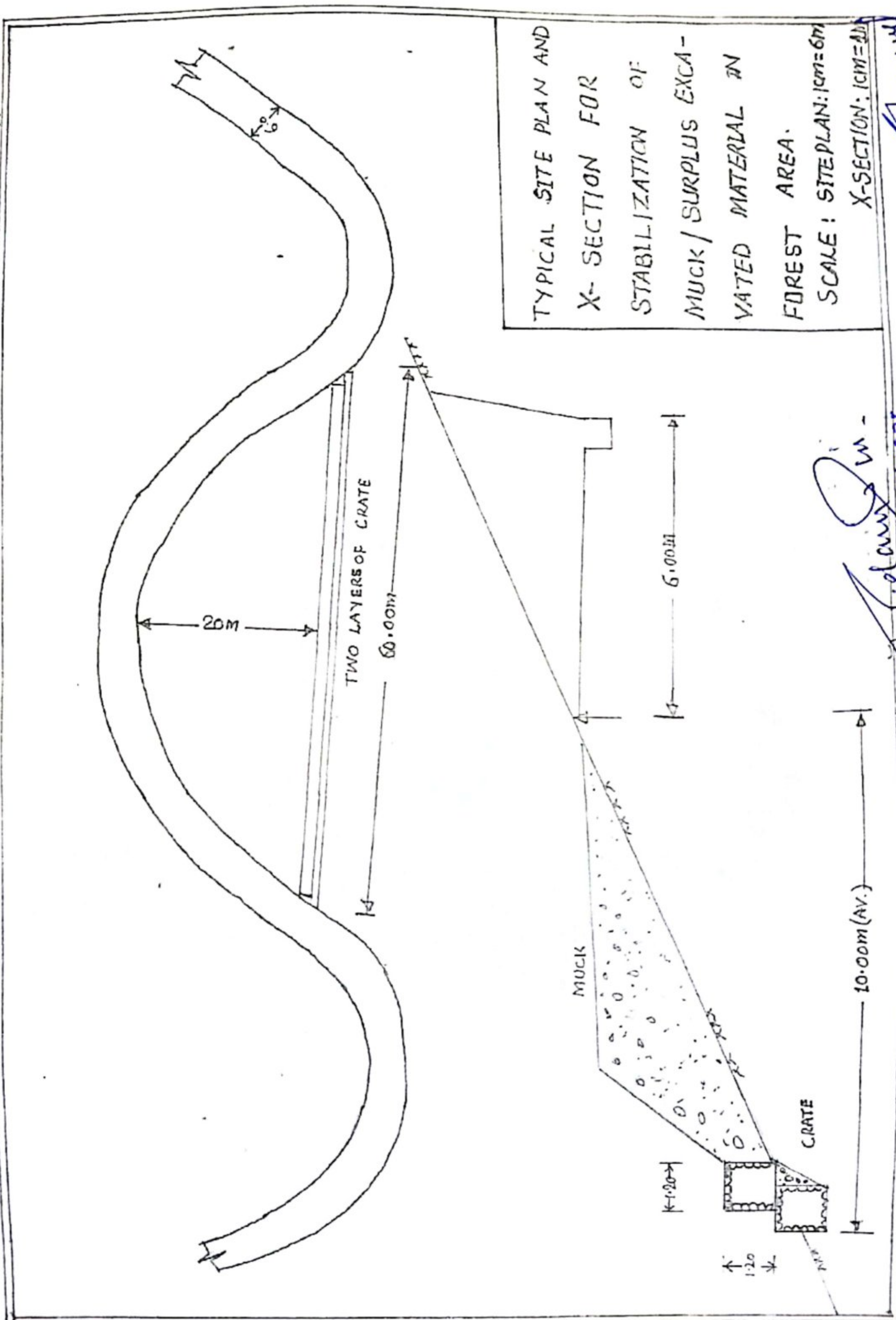
For Two layered crated wall,
Quantity = $2 \times 60 \text{ mtr.} \times 1.20 \text{ mtr.} \times 1.20 \text{ mtr.} = 172.80 \text{ Cum.}$
Amount = 172.80 Cum @ Rs. 1477.50/Cum.
= Rs. 255312.00

(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 = $29 \text{ Nos.} \times \text{Rs.} 273607.00 = \text{Rs.} 7934603.00$
=Rs. 79.35 Lacs

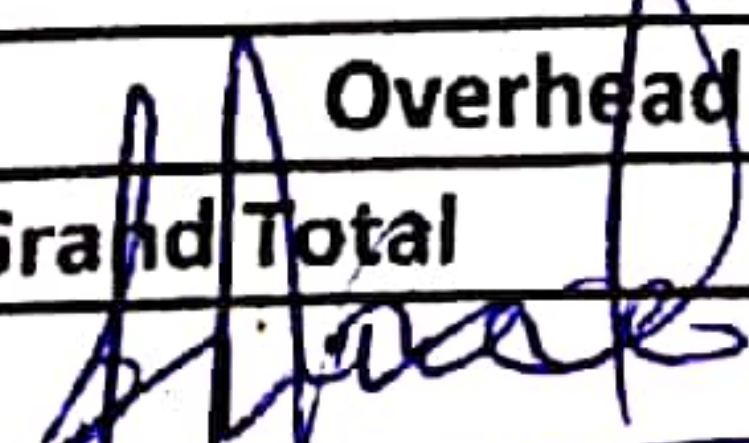

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**Biological measures for stabalization of muck duming sites (per hectare area) for Const. of Road
Kanthan to Sawalkote Part-II Propsoal No. FP/JK/ROAD/48666/2020**

Area= 3.1715					
S. No	Item of work	Unit	Quanity	Rate per ha.	Amount
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	4122	100	4.122
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.	4755	29.34	1.395
ii	Agave: Agave bulbs planted between interspaces of plants open spaces and along the fence line of size	Nos.	12680	15.45	1.959
iii	Grass slips(Soil binding grasses viz: vtivers, Napier Sacharum, Munja and Arundo donax	Nos.	12680	6.35	0.805
iv	Cutting: Ipomea/ Vitex/Popular/ Salix/ Mulbery (area specific)	Nos.	3170	6	0.190
v	Seed ball: Broad casting /dibbling of seed balls	Nos.	3170	2.35	0.074
	Total				4.424
3	Mainteance for 9 years 2nd year @ 25 % +3rd year @ 10 % 4th year 10th year 7x 5% = 70 % of afforestation	Year			3.097
4	Geo taxtile mat	Sq. M	3170	300	9.51
	Total (1+2+3+4)				21.153
5	Overhead 10 % of total				2.115
	Grand Total				23.268


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