

DETAILED COMPREHENSIVE MUCK DISPOSAL PLAN

PROJECT : Shikari to Bhallar Stage Ist Package No. JK14- 441

Quantity of muck to be generated during execution of the project = 74182.5 cum.

Estimated Qty. of hard rock @ 15% = 11127.375 cum

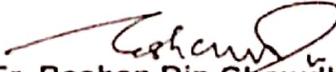
Estimated Qty. of ordinary rock @ 25% = 18545.625 cum

Estimated Qty. to be used at site including filling of embankments etc. @10% = 7418.25 cum

Estimated Qty. left for disposal = $74182.5 - (11127.375 + 18545.625 + 7418.25) = 37091.25$ cum

Estimated Qty. on the basis of soil compaction factor (35% of 37091.25 cum) = 12981.93 cum

Volume/Capacity of dumping sites required for muck disposal = $37091.25 + 12981.93 = 50073.18$ cum.


(Er. Roshan Din Chowdhary)
Executive Engineer
PMGSY Division
Mahore

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)

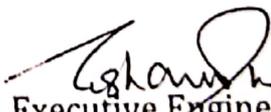
Total Amount for 60.00 mtrs. Two layered crated wall for the dumping yard

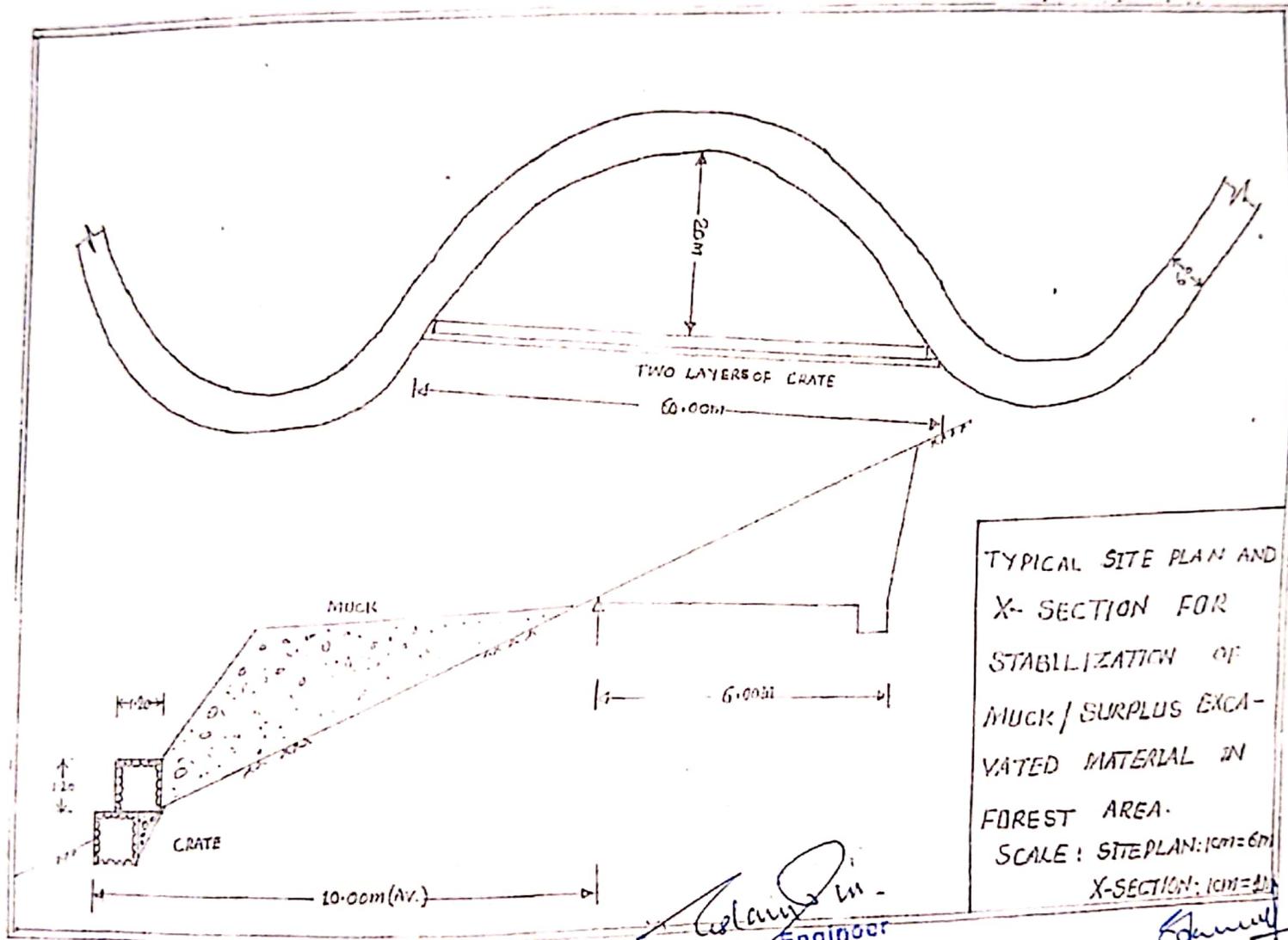
= (Rs. 18295.00 + Rs. 255312.)

= Rs. 273607.00

For 09 Nos. Dumping Yards = 09 Nos. x Rs.273607.00 = Rs. 2462463.00

=Rs. 24.63 Lacs


Executive Engineer
Executive Engineer
PMCSY Division
PUSY Division
Mhore



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=2M

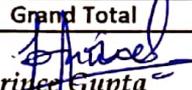
[Signature]
 Executive Engineer
 PMGSY Division
 Mahore

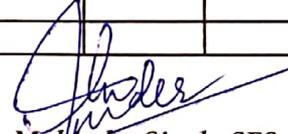
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**Biological measures for stabalization of muck duming site (per hectare area) for Const. of Road
Shikari to Bhaller**

Area= 3.68 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 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	4784	100	4.784
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.	5520	29.34	1.620
ii	Agave: Agave bulbs planted between interspaces of plants open spaces and along the fence line of size	Nos.	14720	15.45	2.274
iii	Grass slips(Soil binding grasses viz: vtivers, Napier Sacharum, Munja and Arundo donax	Nos.	14720	6.35	0.935
iv	Cutting: Ipomea/ Vitex/Popular/ Salix/ Mulbery (area specific)	Nos.	3680	6	0.221
v	Seed ball: Broad casting /diblling of seed balls	Nos.	3680	2.35	0.086
	Total				5.136
3	Mainteance for 9 years 2nd year @ 25 % +3rd year @ 10 % 4th year 10th year 7x 5% = 70 % of afforestation	Year			3.595
4	Geo taxtile mat	Sq. M	3680	300	11.04
	Total (1+2+3+4)				24.555
5	Overhead 10 % of total				2.455
	Grand Total				27.010


Praveen Gupta
Range Forest Officer
Mahore


Mohinder Singh, SFS
Divisional Forest Officer
Mahore Forest Division
Dharmari