

**NAME OF WORK- MODEL ESTIMATE FOR EXCAVATION
OF NEW WATER BODY UNDER PMKSY (PDMC) DURING
2022-23**

ESTIMATED COST-Rs.1, 80,000.00

(RUPEES ONE LAKH EIGHTY THOUSAND) ONLY

Name Of Work: Model Estimate for Excavation of New Water Bodies under PMKSY(PDMC) during 2022-23

Sl No	PWD SoR 2020	Description	Measurements	Quantity	Unit	Rate	Amount
S.H.: 1 EARTH WORK							
1	2.80	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. -All kinds of soil					
		For 1st Layer, Top area, A1	1 x 1.00 x 40.00 x 20.00 =	800.00	sqm		
		Bottom area, A2	1 x 1.00 x 37.60 x 17.60 =	661.76	sqm		
		Volume, 1	0.5 x (A1+A2) x 0.6				
			1 x 0.50 x 1461.76 x 0.60 =	438.53	Cum		
		For 2nd Layer, Top area, B1	1 x 1.00 x 35.60 x 15.60 =	555.36	Sqm		
		Bottom area, B2	1 x 1.00 x 33.80 x 13.80 =	466.44	sqm		
		Volume, 2	0.5 x (B1+B2) x 0.45				
			1 x 0.50 x 1021.80 x 0.45 =	229.91	Cum		
		Total (1+2)		668.44	Cum	134.90	96173
2	2.9	Banking excavated earth in layers not exceeding 20 cm. in depth, breaking clods, watering, rolling each layer with ½ tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead upto 50m and lift upto 1.5 m. -All kinds of soil					
		Embankment Area, (L1=2.4, L2=4.65)	1.0 x 0.50 x 7.05 x 0.75 =	2.64	sqm		
		Embankment Volumn	L= (40+2.0+4.65+20+2.0+4.65)				
			1 x 2.00 x 73.30 x 2.64 =	387.02	Cum		
		Total		387.02	Cum	255.50	98884
3	2.10	Deduct for not rolling with power roller of minimum 8 tonnes for banking excavated earth in layers not exceeding 20 cm in depth.					
		Qty. vide No.		2	=	387.02	Cum
						8.10	-3135
4	2.11	Deduct for not watering the excavated earth for banking					
		Qty. vide No.		2	=	387.02	Cum
						28.40	-10991
							174930
						3 % contingency	= 5248
						Grand Total	= 180178
						Say	180000
Rupees one lakh eighty thousand only.							

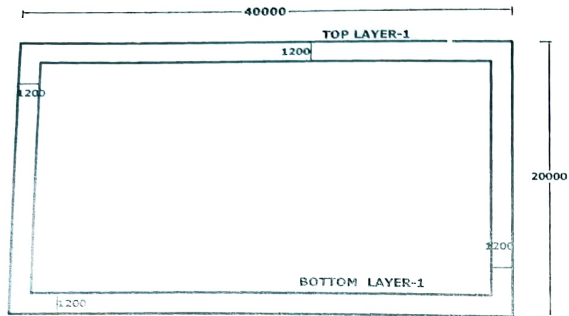
TS NO-65/CE/AGRI/EE(P&I)/2022-23 dt 17-01-2023

Technically approved for an amount of Rs. 1,80,000.00 (Rupees One Lakh Eighty Thousand) only.

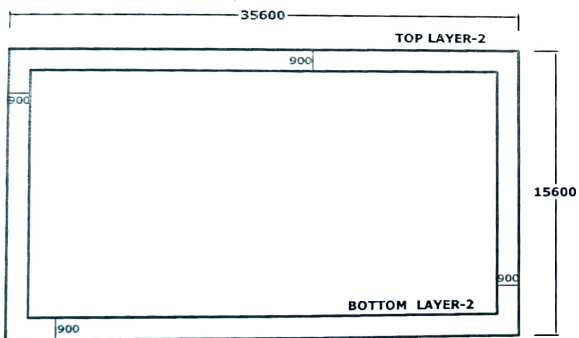
P.Sab
17-01-2023
Assistant Engineer,
O/o. the Chief Engineer,
Deptt. of Agriculture.

S.S. Debnath
17/01/23
Executive Engineer
P & I Division
Department of Agriculture
Agartala, Tripura

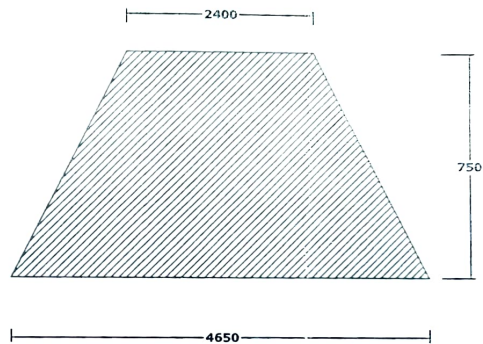
S.S. Debnath
17-01-2023
(Er. S.S. Debnath)
Chief Engineer
Department of Agriculture
Agartala, Tripura.



PLAN



PLAN



EMBANKMENT SECTION

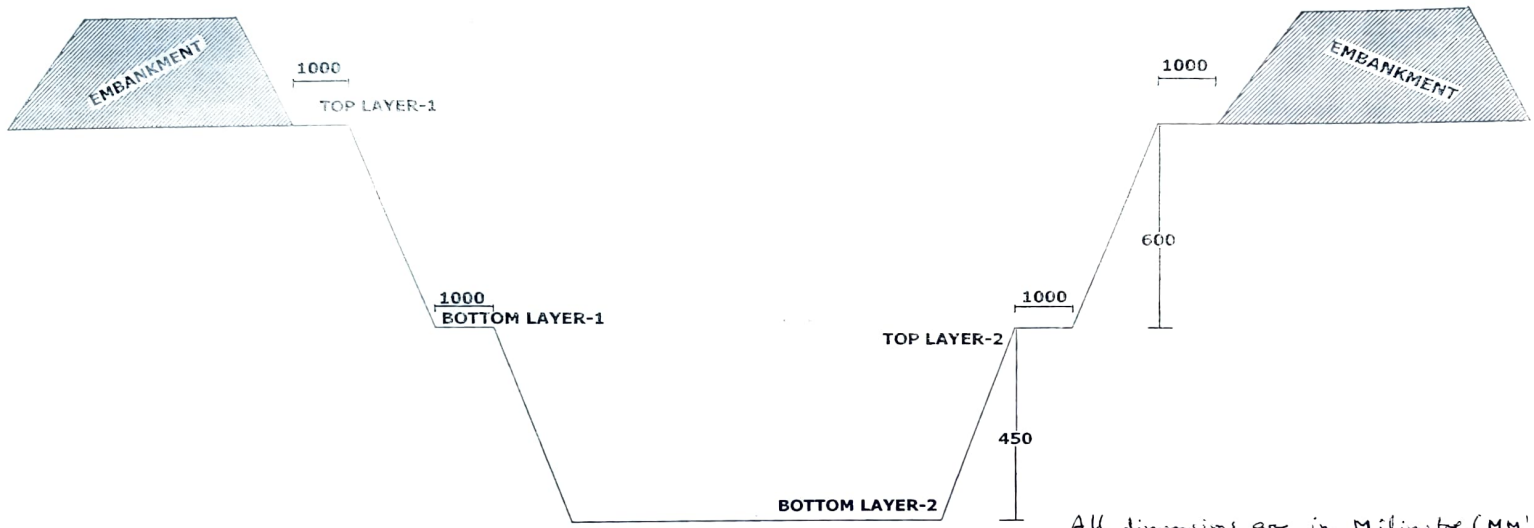
Name Of Work- Construction of New Water Bodies

*All dimensions
in millimetre*

Pr. Subh
17-01-2023
Assistant Engineer,
O/o. the Chief Engineer,
Deptt. of Agriculture.

BS Bala
17/01/23
Executive Engineer
P & I Division
Department of Agriculture
Agartala, Tripura.

17-01-2023
(Er. S.S. Debnath)
Chief Engineer
Department of Agriculture
Agartala, Tripura.



All dimensions are in Millimetre (MM)

Cross section of New Water Bodies

Prabir
17-01-2023
Assistant Engineer,
O/o. the Chief Engineer,
Deptt. of Agriculture.

S. S. Debnath
17/01/23
Executive Engineer
P & I Division
Department of Agriculture
Agartala, Tripura

17-01-2023
(Er. S.S. Debnath)
Chief Engineer
Department of Agriculture
Agartala, Tripura.