Detailed Estimate

Name of Work :-	Providing and Laying Water Proofing Treatment over Division of Plant Biology Main Campus building, Department of Physics Building, Library Building, Department of Chemistry Building, Museum Building, Security Rooms and D.M Bose Building and Demolishing of Old staff quarter and Construction Boumdary wall Back side of Staff quarter at Bose Institute Raja Bazar Kolkata.

Sl. No	Description of Items	Quantity	Unit	Rate	Amount	DSR 2023 Code
1	**Sub Head:-I(Earth Work)**					
1.1	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m inwidth or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil anddisposal of surplus excavated soil as directed, within a lead of 50 m.					
1.1.1	All kinds of soil.	20.00	cum	260.30	5206.00	2.8.1
1.2	Filling available excavated earth (excluding rock) in trenches, plinth,sides of foundations etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	12.00	cum	196.00	2352.00	2.25
	Sub-Total				**7558.00**	
	Sub Head :- II (CEMENT CONCRETE WORK)					
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
2.1.1	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 40 mm nominal size derived from natural sources)	5.00	cum	7178.75	35894.00	4.1.6
	Sub-Total				**35894.00**	
3	**Sub Head :- III (MASONRY WORK)**					
3.1	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:					A/R Based on Kolkata 6.2
3.1.1	Cement Mortar 1:6 (1 cement : 6 coarse sand).(Brick Supplyed by the Department)	15.00	Cum	6013.35	90200.00	6.2.2
3.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :					A/R Based on Kolkata 6.4
3.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)(Brick Supplyed by the Department)	9.00	Cum	7987.05	71883.00	6.4.2
		Sub Head Total			**₹ 1,62,083.00**	

4	**Sub Head :- IV (FINISHING WORK)**					
4.1	12 mm cement plaster of mix :					13.4
4.1.1	1:6 (1 cement: 6 coarse sand)	300.00	Sqm	343.65	103095.00	13.4.2
4.2	15 mm cement plaster on rough side of single or half brick wall of mix:					13.5
4.2.1	1:6 (1 cement: 6 coarse sand)	150.00	Sqm	411.75	61763.00	13.5.1
4.3	Finishing walls with Acrylic Smooth exterior paint of required shade :					13.46
4.3.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	450.00	Sqm	160.60	72270.00	13.46.1
		Sub Head Total			**₹ 2,37,128.00**	
		Grand Total -			**₹ 4,42,663.00**	
	Modified estimated cost after using correction factor on DSR-2023 on account of GST @0.973 0n DSR item only on Rs.442663.00				**₹ 4,30,711.00**	
	Add Enhancement for Cost Index @ 22.00% On DSR Item on Rs.430711.00				**₹ 94,756.00**	
					₹ 5,25,467.00	

Assistant Engineer-V
KCD-V, CPWD, Kolkata-20