

SCHEDULE OF QUANTITY

Name of Work:- Repair & Retrofitting of ERU Building of Indian Association for the Cultivation of Science (IACS) at 2A & B, Raja S.C. Mullick Road, Jadavpur, Kolkata. SH: - External repairing and finishing works.

Sl. No	Description	Quantity	Unit	Rate	Amount	DSR-23 & M/R
1	FINISHING					13
1.1	12 mm cement plaster of mix:					13.4
1.1.1	1:6 (1 cement: 6 coarse sand)	480.00	sqm	343.65	₹ 1,64,952.00	13.4.2
1.2	Finishing walls with Acrylic Smooth exterior paint of required shade:					13.46
1.2.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	950.00	sqm	160.60	₹ 1,52,570.00	13.46.1
1.3	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	780.00	sqm	156.05	₹ 1,21,719.00	13.80
	Sub-Total				₹ 4,39,241.00	
2	REPAIRS TO BUILDING					14
2.1	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judiciously, necessary deduction for scaffolding in the existing item to be done.	970.00	sqm	338.25	₹ 3,28,103.00	14.72
	Sub-Total				₹ 3,28,103.00	
3	Dismantling and Demolishing					15
3.1	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	480.00	sqm	54.65	₹ 26,232.00	15.56
3.2	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	48.00	cum	263.95	₹ 12,670.00	15.60
	Sub-Total				₹ 38,902.00	
4	NEW TECHNOLOGIES AND MATERIALS					26
4.1	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge					26.28

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4.1.1	50 mm average thickness	450.00	sqm	256.35	₹ 1,15,358.00	26.28.2
4.2	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer- In-charge complete in all respect.					26.31
4.2.1	SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	420.00	sqm	141.20	₹ 59,304.00	26.31.1
4.2.2	Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make	450.00	sqm	285.20	₹ 1,28,340.00	26.31.2
4.3	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge. Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75 mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm2).					26.32
4.3.1	12 mm average thickness.	460.00	sqm	388.65	₹ 1,78,779.00	26.32.1
4.4	Providing, erecting, maintaining and removing temporary protective screens made out of specified fabric with all necessary fixing arrangement to ensure that it remains in position for the work duration as required by the Engineer-in-charge.					26.36
4.4.1	Wooven PVC cloth	850.00	sqm	54.25	₹ 46,113.00	26.36.1
4.5	Cleaning of exposed concrete surface of sticking material including loose and foreign material by sand blasting with coarse sand followed by and including cleaning with oil free air blast as per direction of Engineer in charge.	460.00	sqm	382.40	₹ 1,75,904.00	26.37
4.6	Shotcreting R.C.C. columns, beams and slabs etc. in layers with approved design mix concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10 mm maximum size in proportion as per design criteria] including the cost of centering and shuttering at edges and corners etc. as directed by Engineer- in-Charge Note: Rates shall include the providing necessary ground wires etc. The levelling gauges, if used, shall be paid for separately. Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument.					26.38
4.6.1	50 mm thick in Grade M25 with cement content not less than 330 kg per cum	460.00	sqm	1151.05	₹ 5,29,483.00	26.38.2
	Sub-Total				₹ 12,33,281.00	
	Total				₹ 20,39,527.00	
	Modified Estimated Cost after using correction factor on DSR 2023 on account of GST @ 0.973 on			₹ 20,39,527.00	₹ 19,84,460.00	
	Add Cost Index @22% on			₹ 19,84,460.00	₹ 4,36,581.00	
	Total				₹ 24,21,041.00	

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5	NON-SCHEDULE ITEM					
5.1	Replacement of sufficiently damaged reinforcement by welding including materials cost, mobilization cost and etc. complete as per direction of Engineer – in – Charge.	95.00	kg	123.90	₹ 11,771.00	MR
5.2	Providing and laying Polymer modified cementitious Waterproofing treatment to the Floor and wall surface after cleaning the surface thoroughly and making if free from dust and laitance and applying water proofing treatment to the surface with a first coat of Acrylic Polymer liquid admixed with 2 Kgs of cement and fixing fiber glass net and finishing with two more coats of Acrylic Polymer Liquid and 2.0 Kgs of cement with brushes after a gap of minimum 3 to 4 hours from each coat and as per the direction of the Engineer-in-Charge.	120.00	sqm	726.45	₹ 87,174.00	MR
	Total				₹ 25,19,986.00	

Executive Engineer
KCD-IV,CPWD,Kol-20