

**Institute of Hotel Management, Catering Technology and Applied Nutrition, Mumbai**

**Schedule of Quantity**

**Name of Work: Structural repairs including jacketing of damaged RCC members & plastering of Rehab Building, IHM, Dadar.**

Sl. No	Description of Item	Qty	Unit	Rate	Amount
<b>1.0</b>	<b>CARRIAGE OF MATERIALS</b>				
1.1	By Mechanical Transport including loading, unloading and stacking				
	Disposal of building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground in truck	5.00	Nos		
<b>2.0</b>	<b>CONCRETE WORK</b>				
2.1	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
	1:2:4 (1 Cement : 2 coarse sand (zone- III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	3.00	cum		
<b>3.0</b>	<b>REINFORCED CEMENT CONCRETE</b>				
3.1	Reinforced cement concrete work in vertical and horizontal Columns individually or forming box louvers, facias and eaves boards above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	6.00	cum		
	Centering and shuttering including strutting, propping etc. and removal of form for				

3.2	Vertical and horizontal columns individually or forming box louvers band, facias	50.00	sqm		
	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
3.3	Thermo-Mechanically Treated bars of grade Fe-500D or more.	960	kg		
<b>4.0</b>	<b>REPAIRS TO BUILDING</b>				
4.1	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 challies, 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 thereafter .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.	300.00	sqm		
4.2	Dismantling of plaster on columns and RCC pardis	96.00	Sqm		
4.3	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				
	25 mm average thickness	90.00	sqm		

4.4	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust-free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.				
	Bars upto 12 mm diameter	350.00	metre		
4.5	Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge.				
	Upto and including 12mm dia.	200.00	each		
4.6	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.				
	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	100.00	sqm		
4.7	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.				
	25 mm average thickness in 2 layers.	30.00	sqm		

4.8	Providing and placing in position Micro concrete work In beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, hajjas, lintels, bands, plain window sills, staircases and spiral stair cases, pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc upto floor five level. which shall be cement based prepacked single component, chloried free, non-shrink, free flow, self-compacting, ready to use after mixing water in specified proportions obtained from specified manufacturer like Sika, Fosroc, Dr. Fixit, Asian and Ultratech or equivalent and as per direction of Eng-in- charge.	18.00	Cum		
4.9	Providing and fixing Scaffolding net of required width made of high-density Polyethylene UV stabilized knitted on warp knitting machines having density 100grams/sqm and shading coefficient minimum 75% around the construction site/ for vertical extension as per requirement including fastening/tying with building/scaffolding pipes or with any other fixtures etc. complete as per direction of Engineer-in-Charge. (One- time payment shall be made for providing Scaffolding net from start of work till completion of work including shifting if any. The Scaffolding net shall be the property of the contractor on completion of the work)	300.00	sqm		
4.10	Providing and applying 18mm thick (average) ready mixed cement plaster in two-layer 12 mm thick and finished with a top layer 6 mm thick as per manufacturer's specifications and direction of Engineer-in-charge at all heights and levels.	100.00	Sqm		
<b>Total</b>					
GST 18%					
Total Including GST					

Note :

- 1 This is an estimation & payment shall be made only on actual work done.
- 2 Work completion period- 60 days from the date of work order.