

**BILL OF QUANTITY FOR THE WORK OF "REPAIRING OF CIVIL & PLUMBING WORKS  
INSIDE AND OUTSIDE OF THE WORKSHOP"**

Sl. No.	Description of Items	Unit	Quantity	Rate/Unit (Rs.)	Amount (Rs.)
<b>1</b>	<b>DISMANTLING WORK</b>				
1.1	Stripping off worn out plaster (outside and inside) and raking out joints of walls, ceiling etc. upto any height and in any floor including removing rubbish and stacking any where within the compound as directed by EIC.	Sq.M	500.00		
1.2	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as per direction of EIC.	Cu.m	5.00		
1.3	Dismantling all types of plain cement concrete / reinforced concrete works, stacking serviceable materials at site and removing rubbish as directed by EIC.	Cu.m	15.00		
1.4	removing of rubbish, erath etc. from the working site and disposal of the same beyond the campus, loading into truck and cleaning the site in all respect as per direction of EIC.	Cu.m	25.00		
<b>2</b>	<b>CIVIL WORK</b>				
2.1	repairing cracks in wall by Polymer Cement grouting (1:2) including widening the crack on the surface (into V section) cleaning and packing the same with cement mortar (1:2) including acrylic based polymer like Mastercrete M81 or equivalent and finishing off to match with adjacent surface including scaffolding and staging at any height.	R.M	30.00		
2.2	Brickwork with 1st class bricks in cement mortar (1:6) in any floor or height including scaffolding and staging at any height.	Cu.M	2.50		
2.3	125mm thick Brickwork with 1st class bricks in Cement Mortar (1:4) in any floor including scaffolding and staging at any height.	Sq.M	5.00		

Sl. No.	Description of Items	Unit	Quantity	Rate/Unit (Rs.)	Amount (Rs.)
2.4	Supply & installation of 50mm thick under deck insulation on ceiling of rooms by extruded polyertyrene insulation boards having density 34kg/cum, thermal conductivity 0.28 W/M-K, water absorption less than 0.1%, by means of adhesive and fasteners, washers etc. filling the gaps by joints tapes complete with all sorts of materials, labour, scaffolding, staging etc. at any level as per direction of the EIC.	Sq.M	75.00		
2.5	Plaster to wall, ceiling etc. with coarse sand and cement mortar including rounding off or chamfering corners as directed and raking out joints or roughening of concrete surface including throating, nosing and drip coarse where necessary. Thickness of Plaster is 20mm with 1:6 ratio. The rate is inclusive required scaffolding and staging at any level.	Sq.M	500.00		
2.6	Ordinary Cement concrete (1:2:4) with graded stone chips (20mm nomonal size) excluding shuttering and reinforcement. The rate is inclusive required scaffolding and staging at any level.	Sq.M	1.50		
2.7	Providing Reinforced Cement Concrete in 1:1.5:3 (1 Cement : 1.5 Coarse sand : 3 graded stone aggregates 20mm nomonal size) works in beams, suspended floor, roofs, landing, chajjas, lintels, bands, window sills at all level excluding shuttering and reinforcement. The rate is inclusive required scaffolding and staging at any level.	Cu.M	8.00		
2.8	Reinforcement (Tor Steel) for reinforcement concrete work in the all sorts of structures (in foundation, plinth beam, lintel & chajja, roof slab and beam upto 4m height ) including distribution bars, strirrups, binders etc. including supply of rods, initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16gauge black annealed wire at every intersection, complete as per direction of EIC at any floor.	M.T	0.50		

Sl. No.	Description of Items	Unit	Quantity	Rate/Unit (Rs.)	Amount (Rs.)
2.9	Hire and labour charges for shuttering with centering and necessary staging upto 4.0M using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beam, column, lintel & chajja etc. including fitting and fixing & striking out after completion of works in any level.	Sq.M	70.00		
2.10	Cleaning the concrete surface by removing dirt and making defective locations and removing loose concrete by carefull stripping until hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete as per direction of EIC.The rate is inclusive required scaffolding and staging at any level.	Sq.M	50.00		
2.11	Cleaning the exposed reinforcement preferably full diameter by wire brush, applying two coats of polymer based rust removing compound left for 24 hours, removing the coating and then applying two coats of polymer modified anti corrosive protective coating formulated to inhibit the corrosion of reinforcement as per manufacturer's specification.The rate is inclusive required scaffolding and staging at any level.	Sq.M	50.00		
2.12	Applying epoxy based reactive joining agent for joining the old concrete with fresh concrete to be applied within manufacturer's specified tome and specification (0.40kg/sq.m of concrete surface). The rate is inclusive required scaffolding and staging at any level.	Sq.M	50.00		
2.13	Polymer Concrete (2.75kg Acrylic latex per 50 kg of cement) made with water resistant bonding agent of synthetic rubber emulsion as per manufacturer's specification excluding the cost of cement concrete (Payment will be paid on volume of 1:1.5:3 concrete).The rate is inclusive required scaffolding and staging at any level.	Cu.M	5.00		

Sl. No.	Description of Items	Unit	Quantity	Rate/Unit (Rs.)	Amount (Rs.)
2.14	37.5mm thick Cement Concrete (1:1.5:3) with graded stonechips 5.6mm size with hexagonal square mesh wire netting, I.R.C fabric mesh or X.P.M fitted and fixed after tying the existing reinforcement on concrete without distributing the same and with proper scarping and cleaning the reinforcement and disturbed concrete with wire brush etc. after applying a coat of cement including the cost of wire netting I.R.C or X.P.M & cost of all handling and scaffolding complete as per direction of Engineer-In-Charge. The rate is inclusive required scaffolding and staging at any level.	Sq.M	35.00		
<b>3</b>	<b>PAINTING WORKS</b>				
3.1	Priming one coat on timber, plastered surface with sythetic oil bound primer of approved quality including smoothening surface by sand papering etc.	Sq.M	150.00		
3.2	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surface by sand papering etc.	Sq.M	20.00		
3.3	Applying Acrylic Emulsion Paint approved make and brand on walls and ceiling including sand papering in intermeadiate coats including putty. Two or more coats to give an even shade.	Sq.M	250.00		
3.4	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface if necessary.				
a).	On timber surface.	Sq.M	30.00		
b).	On Steel or metal surface.	Sq.M	30.00		
3.5	Rendering the surface of walls, ceiling or polystyrene insulation boards with white cement based wall putty of approved make and brand. (1.5mm thick).	Sq.M	100.00		
<b>4</b>	<b>SANITARY &amp; PLUMBING WORKS</b>				

Sl. No.	Description of Items	Unit	Quantity	Rate/Unit (Rs.)	Amount (Rs.)
4.1	Supplying, fitting and fixing PVC pipes of approved make of (medium duty) conforming to ASTM-D-1785 and threaded to match with G.I Pipes as per IS:1239 (Part-1) with all necessary accessories special viz. socket, bend, tee, P & S trap, union, elbow, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground floor. )Payment will be made on the centre line measurement of total pipe line including all specials. No separate payment will be made for accessories, specials.				
a).	100mm dia.	Metre	20.00		
4.2	Supplying, fitting and fixing G.I pipes of TATA make with all necessary accessories, special viz. socket, bend, tee, union, elbow, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position.				
a).	15mm dia. Medium quality	Metre	10.00		
b).	20mm dia. Medium quality	Metre	10.00		
c).	25mm dia. Medium quality	Metre	10.00		
d).	40mm dia. Medium quality	Metre	15.00		
4.3	Supplying, fitting and fixing Peet's Valve fullway gunmetal standard pattern best quality of approved brand bearing ISI marking with fitting.(tested to 21kg/sq.cm)				
a).	20mm dia.	Each	3.00		
a).	50mm dia.	Each	3.00		
				<b>TOTAL</b>	

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