

**BILL OF QUANTITY FOR THE WORK OF "RENOVATION OF CIVIL, PLUMBING AND
FURNITURE WORKS FOR WET LABORATORY AT ROOM No. 103 (Dr. AMIT
MAJUMDAR), 1ST FLOOR OF MAIN BUILDING, IACS"**

Sl. No.	Description of Items	Unit	Quantity	Rate/Unit (Rs.)	Amount (Rs.)
1	DISMANTLING WORK				
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	110.00		
1.2	Dismantling all types of masonry excepting cement cobncrete plain or reinforced, stacking serviceable materials at site and removing rubbish as per direction of EIC.	Cu.M	1.00		
1.3	Dismantling all types of plain cement concrete works, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m	Cu.M	1.00		
1.3	Dismantling wash basin with brackets with all waste fittings.	Each	1.00		
1.4	Labour for dismantling G.I. pipe with all fittings including Bib cock, Stop covk, Pillar cock etc.				
a).	20mm / 25 mm /32 mm dia pipe	Mtr	15.00		
2	CIVIL WORK				
2.1	Brick work with 1st class bricks in cement mortar (1:6) at 1st floor of Biological Chemistry Building.	Cu.M	1.00		
2.2	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 in inclusive required scaffolding and staging at anv level.	Sq.M	120.00		
2.3	Applying two coats of Mastercrete M-81 (Acrylic Co-plymer) or equivalent acrylic latex mixed with cement in the rario of 1:2 by means of brush two coats at an interval of 12 hrs. each, curing the the coating for three days.	Sq.M	70.00		

2.4	Supplying and laying true to line and level vitrified tiles of approved brand (size not less than 600mmx600mmx10mm thick) in floor, skirting etc. set in 20mm sand cement mortar (1:4) and 2mm thick polymerised adhesive at the back side of tiles (6mm thick layer applied directly over finished artificial stone floor without any backing course) laid after application slurry using 1.75Kg of cement per sq.m below mortar only, joints grouted with admixture of white cement and colouring pigment to match with colour of tiles / epoxy grout materials of approved make as directed and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials, labour and all other incidental charges complete true to the manufacturer's specification and direction of Engineer -In-Charge.	Sq.M	42.00		
2.5	Supplying, fitting & fitting granite slabs 15mm to 18mm thick with uniform texture & without decorative veins in Skirting, top of wooden working bench making suitable arrangements to hold the granite slabs properly by 15mm thick cement mortar (1:2) / suitable adhesive on wooden surface. The joints filling with admixture of pigment matching of stone shades and edges are moulded as per direction of EIC.	Sq.M	8.00		
3	FALSE CEILING				
3.1	Providing and fixing at all height False Ceiling of 12.5 mm thick Gypsum Board of Casoprano, Sundance variety (semi-perforated) of India Gypsum or equivalent conforming to IS: 2095 including the frame work by 15mm narrow flashed stitched suspension grid system using 32mm x 15mm Tee section and grid of 600mm x 600mm. Main runner to be fixed by 2mm thick pre-stretched GI wire with soffit cleat and GI rawl plug inserted on the main roof to be fixed @ 1220 c/c. All base frame material clip should be of cold rolled steel components and coated with hot dip galvanized steel. It should have a capping of material coated with backed polyester paint. The item includes cost of two coats of primer suitable for Gypsum board and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with perimeter channels suitably fixed all complete excluding the cost of the painting.	Sq.M	15.00		
4	WOOD WORK				

4.1	Supplying, fitting and fixing of bubble free float glass (6mm thick) of approved make and brand with wooden bead including polishing at the fixed and openable portion of existing wooden door shutter.	Sq.M	7.00		
4.2	French polishing to wood work on old surface (including removing existing polish upto the satisfaction of EIC) preparing the surface all complete.	Sq.M	15.00		
5	PAINTING				
5.1	Priming one coat on timber, plastered surface with sythetic oil bound primer of approved quality including smoothening surface by sand papering etc.	Sq.M	135.00		
5.2	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	135.00		
5.3	Rendering the surface of walls, ceiling with white cement based wall putty of approved make and brand. (1.5mm thick).	Sq.M	135.00		
6	ALUMINIUM WORKS				
6.1	Providing and fixing anodized Aluminium work of approved shade for window as per approved design using extruded standard sections of HINDALCO conforming to IS: 733 and IS: 1285, anodized colour of approved shade according to IS: 1868 fixed with rawl plugs and screws or with fixing clips including necessary filling up of gaps at junction, at top, bottom and sides with required neoprene felt etc.. This item will include all necessary standard accessories like P.V.C weather gasket, EPDM glazing gasket, handle, hings and applying polysulphide sealant all round peripheri of the window, along with 5mm thick tinted float glass/frosted glass approved colour all complete. The rate is inclusive taking out the existing steel window.	Sq.M	5.50		

6.2	Providing and fixing anodized Aluminium work of approved shade for partition work as per approved design using extruded standard sections of HINDALCO conforming to IS: 733 and IS: 1285, anodized colour of approved shade according to IS: 1868 fixed with rawl plugs and screws or with fixing clips including necessary filling up of gaps at junction, at top, bottom and sides with required neoprene felt etc. This item will include all necessary standard accessories like P.V.C weather gasket, EPDM glazing gasket, handle, hinges and applying polysulphide sealant all round peripheri of the window, along with 5mm thick tinted float glass/frosted glass approved colour all complete.	Sq.M	32.00		
6.3	Providing and fixing anodized Aluminium work of approved shade for openable door work as per approved design using extruded standard sections of HINDALCO conforming to IS: 733 and IS: 1285, anodized colour of approved shade according to IS: 1868 fixed with rawl plugs and screws or with fixing clips including necessary filling up of gaps at junction, at top, bottom and sides with required neoprene felt etc. This item will include all necessary standard accessories like P.V.C weather gasket, EPDM glazing gasket, handle, hinges, locking arrangement and applying polysulphide sealant all round peripheri of the window, along with 5mm thick tinted float glass/frosted glass approved colour all complete.	Sq.M	5.00		
7	SANITARY AND PLUMBING WORKS				
7.1	Supplying, fitting and fixing G.I pipes of TATA make with all necessary accessories, special viz. socket, bend, tee, union, elbow, nipple, longscrew, 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	15.00		
b).	20mm dia. Medium quality.	Metre	8.00		
c).	32mm dia. Medium quality.	Metre	5.00		
7.2	Supplying, fitting and fixing PVC pipes of approved make of (Medium duty) of 50mmdia. Inside the outside wall.	Metre	10.00		

7.3	Supplying, fitting and fixing Peet's valve fullway gunmeta statnard pattern best quality of approved brand bearing ISI marking with fittings.				
	a). 32 mm	Each	1.00		
	a). 20 mm	Each	2.00		
	a). 15 mm	Each	5.00		
7.4	Supplying, fitting and fixing Chromium plated Bib Cock short body (Equivalent to Code No.511 & Model - Tropical/sumthing Special of ESSCO or similar brand.	Each	2.00		
7.5	Supplying, fitting and fixing Chromium plated Stop Cock (Equivalent to Code No.514A & Model - Tropical/sumthing Special of ESSCO or similar brand.	Each	2.00		
7.6	Supplying, fitting and fixing white vitreous china best quality approved make Wash Basin (Size 550mm x 400mm) with G.I brackets including C.P waste fittings of 32mm dia., one approved quality brass C.P Pillar cock of 15mm dia., approved quality P.V.C waste pipe with C.P nut 32mm dia., 900mm long approved quality P.V.C connection pipe with heavy brass C.P nut including mending good all damages. The rate inclusive removing the existing wash basin as per direction of EIC.	Each	1.00		
8	FURNITURE WORK				
8.1	Providing, Making and fixing of Wooden working Bench (top plan 2300mmx760mm) with 900 mm height as per attached drawing. Total construction made of 19mm thick water proof block board, having drawers, shutters with adjustable shelves on the front sides. Regent rack made of Ply wood at the middle on the top. All visible outside surfaces to be finished with 1 mm thick matt finished laminate of approved colour and make. The inside surfaces to be finished with french polish. All free edges of the block board covered with 5mm thick Teak wood beading with polishing. The item includes all the fittings like S.S. Hinges, screws, drawers channels, S.S handles, Godrej Locks, tower bolts etc all complete. [Top surface finished with mirror polished Black granite using proper adhesive, the rate of granite is paid seperately].	Each	1.00		

8.2	Providing and fixing of Upper Cabinet (with shutter) 400mm deep, 500mm height and 650mm length fixed by dash fasteners at wall over 2 nos. 50x50x5mm angles. The total construction made of 19 mm thick water proof block board with openable shutters and one and adjustable shelves. All visible outside surfaces to be finished with 1mm thick matt finished laminate of approved colour and make. The inside surface to be finished with french polish. All the free edges of the block board covered with 5mm thick wood beading including melamine finish. All fitting and fixture like S.S hinges, tower bolts, locks, handles etc are fixed as per approved of EIC.	Each	6.00		
9	MISCELLANEOUS WORKS				
9.1	Providing, fiiting and fixing best quality blinds manually operated with all accessories as per design and direction of EIC.	Sq.M	5.50		
9.2	Providing and fixing of Polyester film (frosted range) of approved make and brand on internal galss partitions as per design and instruction of EIC.	Sq.M	15.00		
				TOTAL	