

**Name of Work : Proposed Modificaton in Mathew's Lab to Faciliate Varadha's lab at first floor of Eastern laboratories**

**Schedule of Quantities**

Sl No	Items of Description	Unit	Qty	Rate	Amount
1	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	Sqm	80.00		
<b>Rate in Words:</b>					
2	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	Cum	1.50		
<b>Rate in Words:</b>					
3	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	180.00		
<b>Rate in Words:</b>					
4	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
	With cement mortar 1:4 (1 cement : 4 M sand)	Sqm	1.50		
<b>Rate in Words:</b>					
5	Providing Core Cutting for walls/ for slabs of various dia including neat finishing and cleaning as directed by Engineer In-Charge				
	For dia 80-300mm upto 300mm depth	Nos	4.00		
<b>Rate in Words:</b>					
6	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	sqm	212.00		
<b>Rate in Words:</b>					
7	Repolishing the existing terrazzo tile / cast-in- situ flooring/dado including finishing with oxlic acid,cleaning etc omplete. 1/90	Sqm	115.00		
<b>Rate in Words:</b>					

Sl No	Items of Description	Unit	Qty	Rate	Amount
8	Dismantling the existing Aluminium partitions,glass, boards in doors, windows, panels etc., upto an height of 3 mtr and shifting and stacking the material with in lead of 50mtr including cleaning the section glass,board etc., complete all as per specifications and as directed by E-in.C	Sqm	12.00		
<b>Rate in Words:</b>					
9	Refixing/re erecting the aluminium partition sections as a door, window,panels etc., with available aluminium sections and fixing the available boards and glasses including necessary rubber gaskets, hardware, tools, labour etc., complete	Sqm	32.00		
<b>Rate in Words:</b>					
10	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	202.00		
<b>Rate in Words:</b>					
10a	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	16.00		
<b>Rate in Words:</b>					
11	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	Sqm	7.00		

Sl No	Items of Description	Unit	Qty	Rate	Amount
<b>Rate in Words:</b>					
12	Providing and fixing ACP sheet panels of 4mm thick with interior grade including necessary charges for material, labour etc., complete and as directed by E In c.	Sqm	43.00		
<b>Rate in Words:</b>					
13	Providing and fixing Brass 100mm mortice latch and lock with 6 levers with pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	Nos	5.00		
<b>Rate in Words:</b>					
14	Providing and Fixing in position Dorma TS-68 door closer or Equivalent make. Complete all as per directions of Engineer-in-Charge.	Nos	3.00		
<b>Rate in Words:</b>					
15	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers				
	of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which				
	the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall				

SI No	Items of Description	Unit	Qty	Rate	Amount
	screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings,				
	grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :12.45.1 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095-(Part I) : 2011 (Board with BIS Certification marks)				
	12.5 mm thick tapered edge calcium silicate false ceiling				
	<b>NOTE:</b> For lighting fittings, grills diffuses and cut-outs etc., have to be made with the frame of perimeter channels of size 20mm x 27mm x 30mm x 0.55mm thick supported suitable and should be considered as per drawing.	Sqm	16.00		
<b>Rate in Words:</b>					
16	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.				
	Two coats	Sqm	382.00		
<b>Rate in Words:</b>					
17	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade				
	One or more coats on old work	Sqm	10.00		
<b>Rate in Words:</b>					

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18	Providing and fixing of Armstrong (lab grade) DLW-solid LG I or equivalent range of homogeneous vinyl floors of size 180 cmx16m_25m x 2.00 mm with:Static electrical charge < 2.0, vertical resistance of 1x10 <sup>7</sup> , Residual indentation of 0.04 mm, colour fastness of stage 7 and sound absorption of 3 db. Armstrong Antistatic/ conductive floor should be installed on a smooth , hard and absolutely leveled sub floor. Copper griddling may be used at the seams and then connected to the earthing as per the customer's requirement. Clean the floor with a liquid detergent diluted with warm water stubborn marks can be removed with a fine abrasive powder and scouring pad. Rinse properly with clean water to remove all traces of detergent. Polishing or surfaces coatings on conductive Antistatic floors must not be used as these will leave a film over the floor surface which will alter the conductivity of the installation., including skirting.	Sqm	26.00		
<b>Rate in Words:</b>					
19	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
	25 mm nominal dia Pipes	meter	10.00		
<b>Rate in Words:</b>					
20	Supply, Laying and Fixing in position under floor, against wall in chases PVC SWR Drainage pipes and specials, rubber rings conforming to Type 'B' of IS:13592 'Supreme' or equivalent approved make as per manufacturers specification including cutting the pipes to required lengths, necessary excavation, chasing and restoring to original conditions, testing etc. complete. (Specials at junction of lateral pipe and vertical stack must have access door for inspection)				
	75mm dia (min wall thickness 3.2mm)	Rmt	10.00		
<b>Rate in Words:</b>					

SI No	Items of Description	Unit	Qty	Rate	Amount
21	Care full dismantling of existing Lab benches / Overhead storages assembled with 20mm thick Jet black granite top, 3rows of wooden reagent shelves,SS Lab sinks,GI water Supply and PVC Waste water outlets including making necessary cutting in masonry wall for removing GI Specials and making good with CM 1:3/with Quick setting mortar,shifting and stacking the dismantled items up to a lead of 1000mtr lead etc and as directed by engineer-in-charge as per specification.	LS	1.00		
<b>Rate in Words:</b>					
22	Care fully Removal and refixing the existing fixed/openable window glass panes of 5mm thick fixed in aluminium frame works after replacing the neoprene rubber gasket including necessary charges for materials,labour, etc up to 15mt height and as directed by engineer-in-charge as per specification.	Sqm	12.00		
<b>Rate in Words:</b>					
23	Removing Existing paint finish on ceiling surface upto mother slab by scraping and sand papering /grinding including necessary repair to scratches etc. complete ad as direction by EIC.	Sqm	192.00		
<b>Rate in Words:</b>					
<b>Total Amount</b>					
Note : The contractor shall quote his rates in this schedule of quantity.Submission of tender in any other format is liable for rejection.					