

BOQ FOR COMPOSITE LAB WORK						
AT DAV PUBLIC SCHOOL, ETWA NAGAR, BEGUSARAI						
SL.NO		DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1	15.7	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 meters lead:				
	15.7.4	In cement mortar	Cum	5.30		
2	15.60	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.	Cum	5.30		
3	Derived from 15.23.1	Chipping of whole floor area except toilets for preparing the floor surfaces rough, clean and usable for new floor tiles pasting.	Sqm	190.00		
4	6.18A	Half brick masonry with bricks of class designation 100A in foundations and plinth in :				
	6.18A.4+ 6.19A	Cement mortar 1:4 (1 cement: 4 coarse send)	Sqm	58.08		
5	5.3	Reinforced cement concrete work in beams,suspended floors, roofs having slope upto 15, landings,balconiec, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excludingthe cost of centring, shuttering, finishing and reinforce ment with 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size).	Cum	2.12		
6	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
	5.9.4	Shelves (Cast in situ)	sqm	22.26		
7	5.22	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete.				
	5.22.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia	Kg	371.00		

8	11.41A	Providing and laying Vitrified tiles in floor in different sizes {thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only.Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.				
	11.41A.1	Double charge vitrified tile polished finish of size				
	11.41A.1.1	Size of Tile 600 x 600 mm	Sqm	82.00		
9	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy , bottle green , black of any size as approved by Engineer-in-charge in skirting , risers of steps and dados over 12 mm thick bed of cement Motar 1:3(1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	110.63		
10	13.78	Applying one coat of cement primer of approved brand and manufacture on wall surface:				
	13.78.1	Cement primer	sqm	170.32		
11	13.80.A.2	Providing and applying white cement based putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	170.32		
12	13.92	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:				
	13.92.1	Two or more coats on new work	Sqm	170.32		
13	11.21	Providing and fixing 10 mm thick acid and / or alkali resistant tiles of approved make and colour using acid and / or alkali resisting mortar bedding, and joints filled with acid and / or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in-Charge.				
	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand).				
	11.21.1.1	Acid and alkali resistant tile.	Sqm	44.52		
	11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand).				
	11.21.2.1	Acid and alkali resistant tile.	Sqm	10.22		
14	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size,approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups,including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	8.2.2	Granite of any colour and shade				
	8.2.2.1	Area of slab upto 0.50 sqm	Sqm	30.79		
		PHE WORK				

15	MR	Providing and fixing PVC Soil ,Waste & vent pipes all complete				
		110 mm dia	metre	51.94		
16	MR	Providing and fixing PVC fittings all complete as/specification & direction of E/I				
		110 mm door bend	Each	42.00		
17	18.8	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.				
	18.8.3	25 mm nominal outer dia Pipes metre 286.30	metre	61.48		
18	SOR 18.12	Providing and fixing G.I pipes complete with G.I fittings including trenching and refilling etc.				
	SOR 18.12.3	25mm dia nominal bore	Metre	47.70		
19	18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
	18.50.1	15 mm nominal bore	Each	27.00		
20	SOR 17.28	Providing and fixing PVC waste pipe for sink & wash basin including PVC waste fittings complete				
	17.28.1	Semi rigid pipe				
	17.28.1.1	32 mm dia	Each	27.00		
21	SOR 18.58	Providing and fixing PTMT grating of approved quality and colour.				
	18.58.1	Circular type				
	18.58.1.1	100mm nominal dia.	Each	27.00		
22	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	17.10.2	Kitchen sink without drain board				
	17.10.2.2	610x460 mm bowl depth 200 mm	Each	12.00		
23	13.12	15 mm cement plaster on rough side of single or half brick wall of mix.				
	13.12.2	1:4(1 cement: 4 coarse sand)	Sqm	127.20		
24	MR	Door skin both side all complete.	Job	1.00		
25	21.1	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 / aneling, 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) :				
	21.1.1	For fixed portion				
	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	133.74		

26	21.1.2	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)				
	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	66.87		
27	21.3	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):				
	21.3.2	With float glass panes of 5.50 mm thickness(weight not less than 12.50 kg/sqm)	Sqm	22.29		
28	21.8	Filling the gap in between aluminium frame & adjacent RCC/Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.				
	21.8.1	Upto 5mm depth and 5 mm width	Metre	53.64		
		Note:-				
	1)	Rate to be inclusive of GST				

BOQ FOR PHYSICS LAB WORK						
AT DAV PUBLIC SCHOOL, ETWA NAGAR, BEGUSARAI						
SL.NO		DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1	15.7	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 meters lead:				
	15.7.4	In cement mortar	Cum	4.00		
2	15.60	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.	Cum	4.00		
3	Derived from 15.23.1	Chipping of whole floor area except toilets for preparing the floor surfaces rough, clean and usable for new floor tiles pasting.	Sqm	190.00		
4	6.18A	Half brick masonry with bricks of class designation 100A in foundations and plinth in :				
	6.18A.4+ 6.19A	Cement mortar 1:4 (1 cement: 4 coarse send)	Sqm	58.08		
5	5.3	Reinforced cement concrete work in beams,suspended floors, roofs having slope upto 15, landings,balconiec, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excludingthe cost of centring, shuttering, finishing and reinforcement with 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size).	Cum	1.60		
6	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
	5.9.4	Shelves (Cast in situ)	sqm	16.80		
7	5.22	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete.				
	5.22.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia	Kg	280.00		

8	11.41A	Providing and laying Vitrified tiles in floor in different sizes {thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only.Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.				
	11.41A.1	Double charge vitrified tile polished finish of size				
	11.41A.1.1	Size of Tile 600 x 600 mm	Sqm	82.00		
9	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy , bottle green , black of any size as approved by Engineer-in-charge in skirting , risers of steps and dados over 12 mm thick bed of cement Motar 1:3(1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	110.63		
10	13.78	Applying one coat of cement primer of approved brand and manufacture on wall surface:				
	13.78.1	Cement primer	sqm	170.32		
11	13.80.A.2	Providing and applying white cement based putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	170.32		
12	13.92	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:				
	13.92.1	Two or more coats on new work	Sqm	170.32		
13	11.21	Providing and fixing 10 mm thick acid and / or alkali resistant tiles of approved make and colour using acid and / or alkali resisting mortar bedding, and joints filled with acid and / or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in-Charge.				
	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand).				
	11.21.1.1	Acid and alkali resistant tile.	Sqm	33.60		
	11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand).				
	11.21.2.1	Acid and alkali resistant tile.	Sqm	7.71		
14	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size,approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups,including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	8.2.2	Granite of any colour and shade				
	8.2.2.1	Area of slab upto 0.50 sqm	Sqm	30.79		
		PHE WORK				

15	MR	Providing and fixing PVC Soil ,Waste & vent pipes all complete				
		110 mm dia	metre	39.20		
16	MR	Providing and fixing PVC fittings all complete as/specification & direction of E/I				
		110 mm door bend	Each	32.00		
17	18.8	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.				
	18.8.3	25 mm nominal outer dia Pipes metre 286.30	metre	46.40		
18	SOR 18.12	Providing and fixing G.I pipes complete with G.I fittings including trenching and refilling etc.				
	SOR 18.12.3	25mm dia nominal bore	Metre	36.00		
19	18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
	18.50.1	15 mm nominal bore	Each	20.00		
20	SOR 17.28	Providing and fixing PVC waste pipe for sink & wash basin including PVC waste fittings complete				
	17.28.1	Semi rigid pipe				
	17.28.1.1	32 mm dia	Each	20.00		
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	18.58.1	Circular type				
	18.58.1.1	100mm nominal dia.	Each	20.00		
22	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	17.10.2	Kitchen sink without drain board				
	17.10.2.2	610x460 mm bowl depth 200 mm	Each	5.00		
23	13.12	15 mm cement plaster on rough side of single or half brick wall of mix.				
	13.12.2	1:4(1 cement: 4 coarse sand)	Sqm	96.00		
24	MR	Door skin both side all complete. Size: 2'-6" x 8'-0", 3'-6" x 8'-0"	Job	1.00		
25	21.1	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				
	21.1.1	For fixed portion				

	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	33.42		
26	21.1.2	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)				
	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	16.71		
27	21.3	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):				
	21.3.2	With float glass panes of 5.50 mm thickness(weight not less than 12.50 kg/sqm)	Sqm	5.57		
28	21.8	Filling the gap in between aluminium frame & adjacent RCC/Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.				
	21.8.1	Upto 5mm depth and 5 mm width	Metre	14.00		
		Note:-				
	1)	Rate to be inclusive of GST				