

PART-B

Bill of Quantity for Repairing & Renovation of Buildings (Principal Chamber, Class rooms, laboratory room etc) at Hari Ram College, Mairwa, Siwan for the Year 2023-24

SL. NO.	BCD CODE	DESCRIPTION OF ITEMS	UNIT	QTY.	RATE	AMOUNT (Rs)
		Civil Works				
1	15.1	Demolishing lime concrete and disposal of material within some metre lead	Cum	78.97	340.50	26889.00
2	15.7	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 metres lead				
a.	15.7.4	In cement mortar	cum	14.97	832.70	12331.00
3	15.3	Demolishing R.C.C. work including stacking of steel bars and disposal unserviceable material within 50 metres lead	Cum	31.2	1411.20	44029.00
4	5.9	Centering and shuttering including strutting, propping etc and removal of form for				
a.	5.9.3	Suspended floors, roofs, landing, balconies and access platform	Sqm	705.3	437.50	308568.00
b.	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	40.95	404.70	16572.00
5	15.7	Demolishing brick work including stocking of serviceable material and disposal of unserviceable material within 50 metres lead				
a.	15.7.4	In cement mortar	Cum	7.98	823.70	6573.13
6	5.56	Dismantling old plaster or skiting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead	Sqm	2146.60	21.70	46581.00
7	5.3+5.33B.1+ 5.33B.4	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15, landings, balconies, chajjas, lintels, bands, plain window sills, stoircases and spiral stair cases upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 Cement :2 coarse sand :4 graded stone aggregate 20mm nominal size)	Cum	64.67	5884.20	380566.00
8	5.15	Providing, hoisting and fixing upto floor five level precast reinforced cement concrete in lintels, beams and bressumers including seating in C.M. 1:3 (1 Cement : 3 coarse sand) cost of required centering and shuttering but excluding the cost of reinforcement with 1:2:5:3 (1 cement : 1.5 coarse sand :3 graded stone aggregate 20mm nominal size)	Cum	0.46	7586.30	3490.00
9	5.5+5.33B.2+ 5.33B.4	Reinforced cement concrete work in arches, arch ribs, domes, vaults, shells, folded plate and roofs having slope more than 15 upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4	Cum	0.72	6225.40	4482.00

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10	5.9	Centering and shuttering including strutting, propping etc and removal of form for				
a.	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	227.69	437.50	99614.00
b.	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	327.72	404.70	132628.28
c.	5.9.9	Arches, domes, vaults upto 6mmsqm	sqm	12	1128.60	13543.20
11	6.1.14A+6.3 A	Brick work with bricks of class designation 100 A in cement mortar (1:6) in super structure above Plinth level upto floor V level	Cum	12.47	5662.10	70606.39
12	6.1A+6.1.12. 1	Brick work with bricks of class designation 100A in foundation and plinth in C.M. (1:4)..... Complete as per S/D of E/I	Cum	6.75	5017.90	33870.00
13	12.52.2	Grading roof for water Proofing treatment with cement concrete 1:2:4 (1 Cement :2 coarse sand :4 graded stone aggregate 20mm nominal size	Cum	37.93	3932.20	149148.00
14	22.20	Providing and laying App (Atactic polypropylene polymer) matified Prefabricated five layer 3mm thick water Proofing membrane, black finished reinforced with non-woven polyester mott consisting of a coat of bitumen primer..... All complete as per s/d of E/I an the laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane 3mm thick	Sqm	995.3	472.50	470279.00
15	12.21	Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by butane torch as per manufactures recommendation	Sqm	518.33	85.20	44161.00
16	13.17.1	12mm cement plaster 1:3 (1 cement: 3 coarsesand) finished with a floating coat of neat cement	Sqm	730.55	203.60	148739.00
17	13.24.2	6mm cement plaster to ceiling of mix 1:4 (1 cement:4 coarse sand) all complete quantity vide Item No (6)	Sqm	468.09	125.60	58792.00
18	13.11.4	12mm cement plaster of mix 1:6 (1 cement : 6 coarse sand) all complete job quantity vide	Sqm	1003.29	141.50	141965.00
19	13.13.4	20mm cement plaster of mix (1:6)..... all complete	Sqm	729.52	192.10	140140.00
20	13.26	Neat cement punning	sqm	91.90	40.50	3722.00
21	15.25	Dismantting store slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material with 50 metres lead	sqm	468.09	106.70	49945.00
22	11.3.1	Cement concrete flooring 1:2:4 finished with a Floating Coat of neat cement including cement slurry etc but excluding the cost of nosing of steps etc complete with 40mm thick with 20mm nominal size stone aggregate All complete	sqm	468.09	289.10	135325.00

23	9.1.1	Dismantling deors, windows and cherestory windows (steel or wood) shutters including & chowknats, aruitrace holdfasts etc complete and stating within 50 metres lead of area 3 sqm and below	NOS	28	151.80	4250.00
24	9.1.2	Providing wood stacking work in frames of doors, windows, clerestory windows and ether fromes, wrought framed and fixed in position with hold fast lugs or with dasl fasteners of required dia & length of sal wood	Cum	1.11	95670.70	106194.00
25	9.4.8	Providing and fixing M.S. grills of required pattern in frames of windows etc with M.S. Flats, square, round bars etc including priming coat with approved steel primer all complet	Kg	787.05	161.10	126722.00
26	9.21.1	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part-I) Non- decorative type core of block board construction with frame of 1st class hard wood and well matched commercial 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters of 35mm thick including ISI marked stainless but hinges with necessary	Sqm	14.88	1775.30	26416.00
27	9.5.3	Providing 40x 5mm flat iron hold fast 40cm long including fixing to frame with 10mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete bolck 30x10x15cm of 1:3:6 mix	nos	44	130.80	5755.00
28	21.1+21.1.2+ 21.1.2.1	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 ruber reoprere gaoket etc.	Sqm	752.49	447.20	336513.00
29	21.3.2	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 with float less panes of 5.5mm thickness	Sqm	83.28	1115.10	92865.00
30	13.80A.2	Providing and applying white cement based putty of average thickness 2mm of approved brand and manufacturer over the plastered wall surface to pepare the surface even and smooth comlete	Sqm	4723.60	105.40	497867.00
31	13.48.1	Finishing with deluxe multi surface paint system for interiors and exteriors using primer two or more coats applied on walls @ 1.25 lit/10sqm over and including one coat of special primer applied@0.75lit/10sqm	Sqm	4723.60	117.30	554078.00
32	13.46A.1	Finishing walls with premium Acrylic smooth exterior paint with silicone additives of requiree shade over new work (Twoor more coat applied @ 1.43 lit/10 sqm over and including priming coat of exterior primer applied @ 2.20kg/Sqm)	sqm	1215.87	132.50	161102.00
33	13.81.1	Applying priming coat with ready mixed pink or grey primer of approved brand and monu factor on wood work (hard and soft wood)	Sqm	33.48	39.70	1329.00

34	13.81.3	Applying priming coat with ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel works	sqm	160.98	34.60	5570.00
35	13.82.4	Painting with ready mixed paint of approved brand and manufacture in all shade over old steel & wood work	sqm	762.12	54.10	41230.00
36	5.22	Rein for cement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete				
a.	5.22.7A	Thermo Mechanically Treated bars TMTC 500-8mm dia	kg	1932.60	94.50	182630.00
b.	5.22.7B	Thermo Mechanically Treated bars TMTC 500-10mm dia	Kg	1546.08	92.60	143167.00
c.	5.22.7C	Thermo Mechanically Treated bars TMTC 500-12mm dia	Kg	773.04	90.80	70192.00
d.	5.22.7D	Thermo Mechanically Treated bars TMTC 500-16mm dia	Kg	1932.60	91.70	177219.00
e.	5.22.7E	Thermo Mechanically Treated bars TMTC 500-20mm dia	Kg	1546.08	91.70	141775.00
f.	5.22.7F	Thermo Mechanically Treated bars TMTC 500-25mm dia				
37	12.78.2	Providing and fixing on wall face unplasticised-PVC (Working Pressure 4 Kg per Sqm) rain water Pipes conforming to IS: 4985 of 110mm diameter	M	240	257.50	61800.00
38	12.79	Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised PVC rainwater Pipes				
a.	12.79.1.2	Coupler-110mm dia	Each	32	120.00	3840.00
b.	12.79.3.2	Single tee with door- 110x110x110	Each	32	193.40	6189.00
c.	12.79.5.2	Bend-87.5-110mm bend	Each	32	132.00	4224.00
39	12.3.2	Providing and fixing unplasticised PVC Pipe clip of approved design to unplasticised PVC rain water pipe by means of 50x50x50mm hard hood plus screwed with M.S. screws of required length including cutting brickwork and fixing on cement mortar (1:4) and malling good the wall etc complete of 110mm	Nos	256	182.72	46776.00
40		Carriage cost of Materials				
a.		Coarse sand	cum	46.5	1362.20	63342.00
b.		stone chips	Cum	98.2	2459.00	241473.00
c.		Steel	ton	7.73	335.00	2589.00
d.		Bricks	Nos	9495	958.50	9100.00
PHE Works						
41	21.1.1.1	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (Part-I) including collecting samples from different strata, preparing and submitting standard bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of E/I upto 90 metre depth below ground level				
a.		300mm dia bore from G.L. to 30M below GL	M	30	486.80	14604.00
b.		300mm dia bore from 30m to 90m and beyond below	M	60	486.80	29208.00

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42	24.2.1.1	Boring/drilling bore well of required dia for casing/strainer pipe by suitable method prescribed IS: 2800 (Part-I) including collecting samples from different strata preparing and submitting strachant/bore log including hire & running charges of all equipments, tools, plants & machineries requested for the job, all complete as per direction of E/I beyond 90 metre upto 150 metre depth below ground level for all types of soil				
a.		300mm dia bore from 90M to 105M	M	15	567.90	8518.50
43	24.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) Pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc, all complete for all depths as per direction of E/I				0.00
a.	24.3.2	150mm nominal size dia	M	40	660.10	26404.00
b.	24.3.1	100mm nominal size dia	M	40	546.10	21844.00
44	24.4	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) Pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc, all complete for	M	25	482.10	12052.00
45	24.7	Supplying, filling, spreading & levelling coarse sand of size range 1.5mm to 2mm in recharge providing grave fine/medium/coarse in required grading & sizes as per actual requirement, all complete as per direction of E/I	Cum	1	1195.60	1195.60
46	24.8	Gravel packing in tubewell construction in accordance with IS:4097 including providing grave fine/medium/coarse in required grading & sizes as per actual requirement, all complete as per direction of E/I	Cum	2.83	1343.20	3801.00
47	24.12	Development of tube well in accordance with IS: 2800 (Part-I) and IS:11189 to establish maximum rate of usable water yield without sand content..... All complete	hour	6	916.80	5500.80
48	MR	Supplying and installation of 2H.P. submersible Pump of Crompton or equivalent Mal	Each	1	30000.00	30000.00
49	MR	Supplying & Fitting 2.5 Sqmm copper service cable from power point from nearest 50mm upto pumping station	M	40	60.00	2400.00
50	MR	Supplying & Fitting 1.5 Sqm/50mm 3 core cable of Crompton	M	40	65.00	2600.00
51	24.13	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well casing/pipe, removable as per requirement, all complete for borewell	Each	1	210.70	210.70
52	24.14	Providing and fixing M.S. Clamp of required dia to the top of casing/housing pipe of tubewell as per IS: 2800 (Part-I) including necessary bolts & nuts of required size complete				
a.	24.14.2	150mm clamp-1no@ Rs1531.40 each	Each	1	1531.40	1531.40

53	24.6	Supplying, filling, spreading & levelling gravels of size range 5mm to 10mm in the recharge pit over the existing layer of boulders in required thickness for all leads list all complete as per direction of E/I	Cum	2.83	1195.60	3383.55
54	17.15	Providing and fixing bellpulp/bottom plug of required dia to the bottom pipe assembly of subwell, as per IS:2800 (Part-I)				0.00
a.	24.15.2	150mm dia-1no@Rs. 281.80 each	Each	1	281.80	281.80
55	17.2	Providing and fixing white vitreous china pedestal type water closet (European type with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush conforming to IS: 7231 with all fittings and fixtures complete				
a.	17.2.1	W.C. Pan with ISI marbled white solid plastic seat and lid	Each	2	4230.00	8460.00
56	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm size cast iron porous trap, 10 litre low level fixtures complete including cutting and making good walls conforming to IS: 7231 with all fittings and floors				
a.	17.1.1	White vitreous china orissa pattern W.C. Pan of size 580x440mm with integral type fat rests	Each	2	4470.90	8941.80
57	17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front wash basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern				0.00
a.	17.4.1	one urinal basin with 10 litre white P.V.C automatic flushing cistern	Each	4	3723.20	14892.80
58	17.7	Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass pillar tops, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls				
a.	17.7.1	White vitreous china wash basin size 630x450mm with a pair of 15mm C.P. brass pillar taps	Each	4	2764.40	11057.60
59	17.8	Providing and fixing white vitreous china pedestal for wash basin completely released at the back for the reception of pipes and fittings.	Each	4	1500.00	6000.00
60	17.28.21	Providing and fixing P.V.C waste pipe for sink or wash basin including P.V.C. waste fittings complete				0.00
a.	17.28.21	Flexible pipe 32mm dia	Each	4	104.40	417.60
61	17.32	Providing and fixing mirror fix superior glass and of required shape and size with plastic moulded frame of approved make and shade with 6mm thick hard board backing				0.00
a.	17.32.3	oval shape -450mmx350mm (outer dimension) - 4 nos @ Rs. 855.40 each	each	4	855.40	3421.60
62	17.34	Providing and fixing toilet Paper holder				0.00
a.	14.34.1	C.P. brass	each	4	550.70	2202.80

63	18.7	Providing and fixing CPVC Pipes having thermal stability for hot cold water supply including CPVC plain & brass threaded fittings, including fixing the pipe with clamps at complete a ber S/D of E/I				0.00
a.	18.7.3	25mm nominal outer dia pipes	M	150m	317.30	47595.00
64	18.8	Providing and fixing CPVC Pipes having thermal stability for lat & Cold water supply including all CPVC plain brass threaded fittings, including fixing the pipe with clamps at 1M spaing				
a.	18.8.2	20mm nominal outer dia pipes	M	120	350.80	42096.00
65	18.9.3	Providing and fixing CPVC pipes, having thermal stability for hot cold water supply including a CPVC Plain & brass threaded fittings all complete as per S/D of E/I				
a.		25mm nominal outer dia pipes	M	119	294.70	35069.00
66	18.12	Providing and fixing G.I. Pipes complete with G.I. Fittings including trenching and refilling etc.				
a.	18.12.3	25mm dia nominal bore	M	15	3421.00	5130.00
67	18.15	Providing and fixing brass bib cock of approved quality				
a.	18.15.2	20mm nominal bore	each	10	328.00	3280.00
68	18.16	Providing and fixing brass stop cock of approved quality				
a.	18.16.2	20mm nominal bore	Each	10	328.00	3280.00
69	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality				
a.	18.17.1	25mm nominal bore	Each	4	532.30	2129.20
70	18.34	Constructing masonry chamber 90x90x100cm inside, in brickwork in C.M. 1:1:4 all complete as per S/D of E/I				
a.	18.34.1	With common burnt clay F.P.S. (Non medular) bricks of class designation 100A	Each	2	13559.90	27119.80
71	18.35	Constructing masonry chamber 120x120x100cm inside, in brickwork in for sluic valve.....all complete as per S/D of E/I				
a.	18.35.1	With common burnt clay F.P.S. (non medular) bricks of class designation 100A	Each	2	18802.60	37605.00
72	18.48	Providing and placing on terrace (at all floor levels) poly ethylene water storage ISI: 1270 marked with cover and suitable latching arrangement and making necessary heels for inlet, outlet and overflow pipes but without fittings and base support for tank	litre	2000	9.70	19400.00
73	18.32	Providing and fixing C.P. brass long rose bib cock of approved quality conforming to IS standard and weighing not less than 810gms				
a.	18.50.1	15mm nominal bore 4 nos @ Rs. 715.10 each	each	4	715.10	2860.40
74	19.32.1	Making soak pit 2.5 m diameter 3M deep with 4 dry brick honey comb shaft with brickwork and S.W drain pipe 10mm diameter, 1.8 long complete per standard design with common burnt clay FPS (non medular) bricks of class designation 7	each	1	33603.40	33603.00
75	12.78.2	Providing and fixing on wall fore unplasticised PVC rain water pipes conforming IS: 4985 including jointing with seal ... all complete of 110mm	m	90	257.50	23175.00

76	12.79	Providing and fixing on wal face unplesticised PVC moulded fittings/accessories for unplas PVC rain water pipes				0.00
a.	12.79.1.2	couper 110mm dia	each	8	120.00	960.00
b.	12.79.5.2	Bend 87.8	each	8	132.00	1056.00
Electrical Works						
77	1.7	Wining for circuit/submain wining along with earth wire with the following sizes of FRA insueled copper conductor, single core cabel in surface/recessed medium class PVC condud as required				
a.	1.7.2	2x2.5 Sqmm+1x1.5 sqmm earth wire 503m @Rs.161/m	m	503	161.00	80983.00
b.	1.7.3	2x4 Sqm+1x4 Sqmm earth wire-451m @Rs. 200/m	m	451	200.00	90200.00
c.	1.7.5	2x10 Sqmm+1x10 Sqmm earth wire 180mm @Rs 382	m	180	382.00	68760.00
78	1.1.3	Wiring for iight point/ fan point/exlanst fan point/call bell point with 1.5 Sqmm PVC insulator copper conductor single core PVC cable in surfac/recessed medium clas Phendithic laminated sheet, suitable size M.S./PVC box etc as required	Point	110	681.00	74910.00
79	1.22.5	Supply and fixing metal/PVC box of following size (normal size) on surface on in vece with suitable size of phenatic laminated sheet cover in front include painting etc as required 180mmx100mmx60mm deeb	Each	20	132.00	2640.00
80	1.2.3	Supply and fixing following paino type witech/ socket on the existing box/cover/ including connection etc as required				
a.	1.23.1	5/6 amps swtch	Each	60	39.00	2340.00
b.	1.23.4	3 Pin, 15/16 amps socket out let	Each	60	52.00	3120.00
81	1.24	Supplying and fixing following switch/sockef etc bex including comeefins but excluding moduls plate etc or required				
a.	1.24.1	5/6 amps switch	Each	65	81.00	5265.00
b.	1.24.3	15/16 amps switch	Each	30	134.00	4020.00
c.	1.24.4	3 Pin, 5/6 amps socket out let	Each	65	122.00	7930.00
d.	1.27.1	1 or 2 modular (75mmx75mm)	Each	20	180.00	3600.00
82	2.8	supply and fixing following way single poles neutral, sheet steel, MCB distributcm board 240V on surface/ recess complete with timed copper bus bar, nautral bus bar earth bar, dink interconnections power painded including earthing etc as required (but without MCS RCCB/issalatar)				
a.	2.8.3	2+8 way, single door	Each	4	741.00	2964.00
b.	2.8.5	2=12 WAY, SINGLE door	Each	4	949.00	3796.00
83	2.12	Supplying and fixing following rating 240/41s volts cover minture circuit breaker for inductive load of following poses in the existing MCBDB complete with conestions, test and commissioning etc as required				
a.	2.12.1	6/32 amps, single pole	Each	5	192.00	960.00
b.	2.12.3	40 amps, single pole and nutral	Each	5	729.00	3645.00
84	4.2	Providing and fixing lighting conductor finial made of 25mm dia 300mm long, copper single prong at top with 85mm dia thick plate including holes etc complete	Each	6	188.00	1128.00
85	4.7	Providing and fixing G.I. tape 20mmx3mm thick on perapet or surfe of wall for light cenductor complete as required	M	104	71.00	7384.00
86	4.8	Providing and fixing G.I. tape 20mm x 3mm thick on parapet or surfall of wall for lighting conductor complete as required	M	80	99.00	7920.00

87	4.12	Providing and fixing testing joint made of 20mmx3mm thick G.I. strips. G.I. bolts, nuts and spring washers etc complete as required	Each	6	80.00	480.00
88	4.14	Providing and laying G.I. tape 32mmx6mm from earth electrode directly in ground	Each	5	137.00	685.00
89	3.4	Earthing with G.I. earth plate 60x60mmx6mm thick including accessories and prothi masonry enclosure with cover plate having locking arrangement and watering pipe 2.7 metre long etc with charcoal/cock and salt as received	Each	3	6276.00	18828.00
90	3.6	Earthing with copper earth plate 600mmx600mmx3mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement 2.7 metre long etc with charcoal and salt as required	Set	1	12831.00	12831.00
91	3.8	Supplying and laying 25mmx5mm copper strip at 0.5 metre below ground as earth electrode, including connection termination with nut, bolt, spring, washer etc as required (jointing shall be done by overlapping with 2 sets of brass nut, and spring washer spaced at 50mm)	m	30	898.00	26940.00
92	3.7	Supplying and laying 6SW.G G.I. Wire at 0.50 metre below ground level for conductor electrode including connection termination with G.I. thimbles required	m	50	17.00	850.00
93	MR	S/F/F 1200m A/C Fan of Havells	each	40	3250.00	130000.00
94	17.7.1	Providing and fixing wash basin with C.I. brackets of size 630mmx 450mm	each	8	2764	22116.00

Total Rs 67,44,116.00

Say

Rs 67,44,100

(Sixty Seven Lacs Forty Four thousand and one hundred only)

Principal

Hari Ram College, Mairwa, Siwan