

Bill of quantity for the work Providing Community centre at Shiv Mandir Sayal-D under Sayal-D project.

S. N.	Description	Qty	Unit	Updated Rate	Updated Amount
1	Part A (Building Portion) - Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	56.42	cum	210.61	11882.62
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	91.26	cum	173.71	15852.2
3	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	9.74	cum	1242.11	12098.15
4	Providing and laying cement concrete of specified grade excluding the cost of centering and shuttering in all works up to plinth level : 1:4:8 (1cement : 4 fine sand : 8graded stone aggregates 40 mm nominal size).	19.47	cum	5559.85	108250.28
5	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	15.69	cum	7388.64	115927.76
6	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	28.38	cum	9025.73	256150.22
7	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement: 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	5.91	cum	8666.5	51219.02

8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars	4223.60	Kg	89.79	379237.04
9	Centering and shuttering including strutting, propping etc. and removal of form for: Foundations, footings, bases of columns, etc. for mass concrete	44.10	sqm	238.54	10519.61
10	Centering and shuttering including strutting, propping etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts	94.50	sqm	606.05	57271.73
11	Centering and shuttering including strutting, propping etc. and removal of form for: Lintels, beams, plinth beams, girders, bressumers and cantilevers	92.87	sqm	469.3	43583.89
12	Centering and shuttering including strutting, propping etc. and removal of form for suspended floors, roofs, landings, balconies and access platform.	153.55	sqm	579.6	88997.58
13	Centering and shuttering including strutting, propping etc. and removal of form for weather sheds, Chhajjas, corbels etc. including edges.	15.07	sqm	615.84	9280.71
14	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 sqm in width as well as 10 sqm on plan) including disposal of excavated earth lead up to 50 m and lift up to 1.5 m disposed earth to be leveled and neatly dressed. (All kinds of soils).	72.45	cum	155	11229.75
15	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 5.0 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	29.09	cum	6044.26	175827.52
16	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 5.0 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	63.12	cum	6340.65	400221.83
17	12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand)	342.77	sqm	206.27	70703.17
18	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	166.39	sqm	318.13	52933.65
19	12mm cement plaster finished with a floating coat of neat cement of mix: 1:4 (1cement : 4fine sand).	28.86	sqm	271.12	7824.52
20	Providing and applying white cement based putty of average thickness 1mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	509.16	sqm	123.32	62789.61
21	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and	509.16	sqm	120.16	61180.67

	including water thinnable priming coat with cement primer				
22	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm)	166.39	sqm	72.85	12121.51
23	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	24.05	sqm	540.02	12987.48
24	Steel work in riveted, bolted or welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	63.00	kg	105.08	6620.04
25	Providing and fixing 1mm thick M.S. sheet garage door with frames of 40x40x6mm angle iron, 3mm M.S. gusset plates at junctions and corners, all necessary fittings complete including applying a priming coat of approved steel primer: Using M.S. flats 30x6mm for diagonals and central cross place.	8.37	sqm	4055.54	33944.87
26	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	19.85	sqm	104.18	2067.97
27	Half brick masonry with FPS bricks of class designation 50 in superstructure above plinth level up to floor V level in cement mortar 1:4 (1cement : 4coarse sand).	4.20	sqm	782.69	3287.3
28	Providing hoisting and fixing up to floor five level pre-cast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the likes including the cost of required centering and shuttering finishing smooth with 6mm thick cement plaster 1:3 (1cement: 3fine sand) on exposed surfaces but excluding the cost of reinforcement with 1:2:4 (1cement : 2coarse sand : 4graded stone aggregates 20mm nominal size).	0.36	cum	8380.64	3017.03
29	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISi : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	2000.00	per litre	8.87	17740

30	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-charge: Concealed work including cutting chases and making good the walls etc: 20 mm nominal outer dia pipes.	20.00	metre	406.23	8124.6
31	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. External work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	20.00	metre	238.18	4763.6
32	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer-in-charge: External work: 25 mm nominal outer dia pipes.	50.00	metre	305.63	15281.5
33	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	3.00	each	2163.25	6489.75
34	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 453x357 mm	3.00	each	904.16	2712.48

35	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	3.00	each	4917.62	14752.86
36	Providing and fixing P.T.M.T. towel rail complete with brackets fixed to wooden cleats with C.P. brass screws with concealed fittings arrangement of approved quality and colour: 450mm long towel rail with total length of 495mm, 78mm wide and effective height of 88mm weighing not less than 170gms.	3.00	each	450.15	1350.45
37	Providing and fixing P.T.M.T. liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality, colour and make, weighing not less than 105gms.	3.00	each	138.6	415.8
38	Providing and fixing C.P. brass bib cock of approved quality confirming to IS: 8931: 15mm nominal bore.	3.00	each	446.64	1339.92
39	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make and confirming to IS 8931: 15mm nominal bore.	6.00	each	539.55	3237.3
40	Providing and fixing anodized aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make confirming to IS: 733 and IS: 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of the gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angles, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws all complete as per architectural drawings and the direction of Engineer-in-charge. (Glazing and paneling to be paid for separately): For fixed portions: Powder coated aluminium (minimum thickness of powder coating 50 micron).	41.58	kg	392.53	16321.4

41	Providing and fixing anodized aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make confirming to IS: 733 and IS: 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of the gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angles, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws all complete as per architectural drawings and the direction of Engineer-in-charge. (Glazing and paneling to be paid for separately): For shutters of doors, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including cost of PVC / Neoprene gasket required (fittings shall be paid for separately): Powder coated aluminium (minimum thickness of powder coating 50 micron).	17.05	kg	467.33	7967.98
42	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per architectural drawings and the direction of Engineer-in-charge (cost of aluminium snap beading shall be paid in basic item): With float glass panes of 4.00 mm thickness.	10.12	sqm	798.69	8082.74
43	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete: Fixed to steel windows by welding.	213.84	kg	162.58	34766.11
44	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), 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 mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	30.71	sqm	867.11	26628.95
45	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacture) with water absorption's less than 0.08% and conforming to IS:15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1cement : 4coarse sand) including grouting the joints with white cement and matching pigment etc. complete: Size of tile 60x60 cm.	128.88	sqm	1162.7	149848.31

46	Providing and fixing circular / hexagonal M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73 mm height, top lid of 1.5mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron / MS sheet box by means of 3.3mm dia round headed screws, one lock at the corners. Clamps shall be made of 12mm dia. M.S. bar bent to shape as per standard drawing.	8.00	each	166.85	1334.8
47	Providing and laying cement concrete of specified grade excluding the cost of centering and shuttering in all works up to plinth level : 1:2:4 (1cement : 2coarse sand : 4graded stone aggregates 20 mm nominal size).	12.08	cum	6599.52	79722.2
48	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	200.00	sqm	718.39	143678
49	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required: One urinal basin with 5 litres white P.V.C. automatic flushing cistern.	1.00	each	4186.69	4186.69
50	Providing and fixing hand rail of approved size by welding etc. to steel ladders, railings, balcony railings, and stair case railings including applying a priming coat of approved steel primer: GI.Pipes	108.72	kg	155.37	16891.83
51	Part-B (20 users Septic Tank) - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil.	20.12	cum	210.61	4237.6
52	Extra for every additional lift of 1.5 m or part thereof in excavation/banking excavated or stacked materials. 2.26.1 All kinds of soil	6.71	cum	71.23	477.73
53	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead	8.94	cum	173.21	1548.93

	up to 50 m and lift upto 1.5 m.				
54	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	0.85	cum	5559.85	4705.72
55	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but excluding cost of reinforcement, with 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).	0.45	cum	7388.64	3310.11
56	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. 5.22.6 Thermo-Mechanically Treated bars	35.84	kg	89.79	3218.07
57	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 5.0 in foundation and plinth in: 6.1.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	5.40	cum	6044.26	32608.78
58	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate. (CPWD SOR'14, Item No. 11.3.1)	2.53	sqm	450.25	1139.13
59	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement : 4 fine sand) (CPWD SOR'14, Item No. 13.7.2)	14.16	sqm	271.12	3837.7
60	Providing and fixing on wall face unplasticized rigid PVC rain water pipes conforming to IS:13592 Type A including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion: Single socketed pipes: 100 mm diameter.	21.00	metre	259.28	5444.88
61	Providing and fixing on wall face unplasticized PVC – moulded fittings / accessories for unplasticized rigid PVC rain water pipes conforming to IS:13592 Type A including jointing with seal ring confirming to IS: 5382 leaving 10mm gap for thermal expansion: Bend 87.5 degree: 110mm bend.	3.00	each	121.57	364.71

62	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design: Inside dimensions 455x610 mm and 45 cm deep for single pipe line : With common burnt clay F.P.S. (non modular) bricks of class designation 5.0	3.00	each	5271.32	15813.96
63	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design. With common burnt clay F.P.S. (non modular) bricks of class designation 5.0	1.00	each	17884.45	17884.45
64	PART-C (Boundary Wall) - Earth work in excavation by mechanical means (Hydraulic excavator) / manual means foundation trenches, drain not exceeding 1.5 m in width as well as 10 sqm on plan including dressing of sides and ramming of bottom, lift up to 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 m. (All kinds of soils).	18.00	cum	210.61	3790.98
65	Supplying and filling in plinth with Jamuna sand under floors including watering, rammin consolidation and dressing complete.	1.50	cum	1242.11	1863.165
66	Providing and laying cement concrete of specified grade excluding the cost of centering and shuttering in all works up to plinth level : 1:4:8 (1cement : 4 fine sand : 8graded stone aggregates 40 mm nominal size).	2.25	cum	5559.85	12509.6625
67	Brick work with FPS bricks of class designation 50 in foundation and plinth using cement mortar 1:6 (1cement : 6coarse sand).	12.29	cum	6044.26	74283.9554
68	Half brick masonry with FPS bricks of class designation 50 in foundation and plinth in cement mortar 1:4 (1cement : 4coarse sand).	67.13	sqm	754.03	50614.26375
69	12mm cement plaster of mix: 1:6 (1cement : 6fine sand).	185.90	sqm	206.27	38345.593
					2918664.39
					525359.59

		Total cost incl. GST Rs.	3444023.98
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