

5.5 BILL OF QUANTITIES FOR DIFFERENT UNIT OF RURAL BUILDINGS WITH GENERAL CIVIL & STRUCTURAL WORK

BILL OF QUANTITIES FOR CIVIL & STRUCTURAL ENGINEERING WORK	QUANTITIES FOR RURAL BUILDING OF DIFFERENT CATEGORY AND AREAS			
	IAY HOUSE 350 SQ. FT.	HEALTH / ANGANWADI CENTRE 400 SQ. FT.	MEETING / PANCHAYAT HALL 1500 SQ. FT.	SCHOOL BUILDING 2300 SQ. FT.

Sl. No.	Description of Items	Unit	Rate (in Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)
1	Earthwork in excavation: Earth work in excavation of Foundation trenches in all sorts of soils (including mixed soil / soft rocks etc.) including removing, spreading and / or stacking the spoils within a lead of 10 M etc. all complete as directed by the Engineer. The excavation work shall include necessary trimming of sides of trenches, levelling, dressing, ramming the bottom, side shoring, removal of slush and bailing out water as per requirement Depth of excavation not exceeding 1.5 M	Cu. M.	75	8.1	607.5	8.6	645	24	1800	40	3000
2	Earth work in filling: Earth work in filling in foundation trenches, plinths or pits with good earth (obtained from excavated earth or borrowed from a nearby area) in layers not exceeding compacted thickness of 150 mm including watering and ramming layer by layer to achieve 85% Proctor density etc. all complete as per requirement	Cu. M.	200	5.4	1080	5	1000	12.1	2420	35	7000
3	Brick Flat Soiling: Single brick flat soiling with picked jhama bricks including ramming and dressing of bed to proper level and filling joints with powdered earth or local sand including cost of sand or earth as per requirement or as directed by engineer.	Sq. M.	350	31	10850	37	12950	144	50400	185	64750
4	Plain Cement Concrete (1:4:8) Providing and laying Plain Cement Concrete with nominal mix of 1:4:8 (1 cement; 4 coarse sand; 8 graded stone aggregate with 20mm nominal size) as blinding layer underneath footings, plinth beams, column bases or any other foundations etc. all complete as per requirement / approved drawings / direction of engineer at site	Cu. M.	4400	1.6	7040	1.7	7480	44	193600	10	44000

Sl. No.	Description of Items	Unit	Rate (in Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)
5	M20 grade RCC (1:1.5:3): Providing and laying M20 grade Reinforced cement concrete with nominal mix of 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate with 20 mm nominal size) in foundation, plinth beams and any other concreting work etc. all complete as per requirement / approved drawings / direction of engineer at site including cost of cement, sand, stone aggregate, vibrating and all other ingredients but excluding cost of requirement.	Cu. M.	6200	2.85	17670	2.72	16864	13.7	84940	30	186000
6	Formwork: Providing, making and fixing centering and shuttering work with steel plates / ply boards as per requirement in footings, columns, beams and any other structures including strutting, proper bracing, propping, shoring etc. fixing and checking of levels through water levels as per requirement, keeping the same in position true to levels during concreting and removal / stripping of shuttering after stipulated time period etc. all complete at all levels for all types of structures as mentioned in the scope of work and as per direction of engineer.	Sq. M.	250	27	6750	30	7500	104	26000	225	56250
7	Reinforcement Bar (Fe500): Providing, laying and fixing in position reinforcement bar (Fe 500) for reinforced cement concrete work in all sorts of structures including main reinforcement, distribution bars, stirrups, binders, bars for lapping etc. including supply of bars, straightening, removal of loose rust if any, welding of splices if any, cutting to requisite length / size, hooking and bending to correct shape, placing in proper position and binding with 16/18 gauge black annealed wire at every intersection as per bar bending schedule, placing bar supports / chairs / spreaders / boisters / concrete cover blocks etc. all complete including cost of reinforcement and all other ingredients like binding wires, chairs, supports etc. all complete as per approved drawings / specification / direction of engineer at site.	Cu. M.	75	315	23625	324	24300	1000	75000	1450	108750
8	CGI Sheeting for Roof Supplying, laying and fixing corrugated galvanized iron sheet of 0.63 mm thick fitted and fixed with purlins or any other structural members with 8 mm dia 'U' or 'J' hook bolts, nuts, washers, stitching bolts, blind rivets, bitumen washers, limpets and putty etc. all complete for roofing work as per approved drawings / specifications / direction of engineer at site	Quintal	6700	0.1	670	0.155	1038.5	0.7	4690	1.2	8040

Sl. No.	Description of Items	Unit	Rate (in Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)
9	MS Structural Steel Work (incuding MS Holding Down Bolts: MS Structural Steel Work including Supplying and fabricating in Columns, Roof Trusses, Rafters, Purlins, Side claddings, Louvers, Bracings, column base plates etc. made from Square Hollow Sections / Rectangular Hollow Sections and / or simple rolled steel structural sections and plates connected to one another with Gussets, Cleats through bolts and nuts or welding etc as per design or direction, complete including transportation from owner's / client's Steel yard / godown, loading / unloading at client's / owner's shop / fabrication yard, fabrication including preparing shop layout / template, flame cutting, straightening, bending if necessary, marking, making holes with drilling machines, fitting, welding, making jigs & fixtures, cleaning of surfaces to be painted, protective painting with one coat of red oxide / zinc chromate primer of approved make and quality etc. all complete including cost of steel, paint and all other accessories / consumables as per direction of engineer at site	MT	80000	1.4	112000	1.45	116000	5.15	412000	6	480000
10	Ferrocemnt Panelling 15 mm thick Ferrocemmnt panel	Sq.m	250	90	22500	98	24500	142	35500	550	137500
11	Thermocol Insulation 50 mm thick Thermocol	Sq.m	5	90	450	98	490	142	710	550	2750
12	Steel Wiremesh: Supplying, placing and fixing chicken wiremesh over bamboo matt in walls for facilitating plastering work over bamboo mall as per specification / approved drawing / direction of engineer at site	Sq.m	100	90	9000	98	9800	142	14200	550	55000
13	Plastering with Cement Sand mortar (1:6): Plastering work to walls in cement sand mortar with proper application of cement slurry as and when required including rounding off or chamfering corners, raking out joints or roughening of concrete surface, making of throating, nosing with 1:6 cement sand mortar etc. all complete as per direction of engineer. For 15 mm. thick plaster	Sq.m	175	90	15750	98	17150	142	24850	550	96250

Sl. No.	Description of Items	Unit	Rate (in Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)
14	White washing: White washing of approved shade and colour (two coats) to interior surfaces of buildings including scraping the plastered or concrete surface thoroughly etc. all complete as per specification approved drawings / direction of engineer at site	Sq.m	20	90	1800	98	1960	142	2840	550	11000
15	Brick Work underneath Plinth Beam: Providing and making of brick work underneath plinth beams with burnt jhama bricks as per specification including cement slurry in 1:6 cement sand mortar (1 part of cement; 6 parts of sand) for 250 mm thick brick work including curing, cost of cement and all other ingredients etc. as per specification / approved drawings / direction of engineer at site	Cu. M.	4400	3	13200	3	13200	6.1	26840	15	66000
16	Flooring 50 mm thick Flooring work with metallic handener topping of 12 mm. Thick metallic concrete hardener consisting of mix proportion of 1:2 (1 part cement hardener mix: 2 part stone aggregate of 6 mm down nominal size) by volume with the mix (1 part metallic-hardening compound of approved quality mixed with 4 parts of cement) including laying, spreading of slurry of mix with a smooth finished topping layed over 38 mm. thick base concrete of mix 1:2:4, with 20 mm dia nominal size of coarse aggregate, sand and cement etc. all complete including cost of all materials as per requirement / approved drawing / direction of engineer	Cu. M.	5800	1.6	9280	1.84	10672	7.25	42050	10	58000
17	Rammed Earth (Fine Grained soil)	Cu. M.	186	7	1302	8.24	1532.64	33	6138	45	8370

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18	Doors and Windows: Supplying, fitting and fixing doors / windows with 0.63 mm thick G.I. sheets along with framing conforming to IS:1038-1975 and manufactured from rolled steel sections conforming to IS:7452-1974 with coupling, mullions etc. as per IS:1081, IS:1361 (latest edition) bolting lugs with steel framing, locking bracket handle plate etc. including hoisting in position, straightening of members if required all complete as per requirement / approved drawings / direction of engineer	LS	5000 for one DOOR and 2000 for one WIND OW	LS	26000	LS	32500	LS	44000	LS	100000
19	Pipe Sleeves PVC Pipe Sleeves 150 mm long x 50 mm dia	Nos	50	12	600	12	600	30	1500	30	1500
Cost of Buildings (in Rs.)					280175	300182		1049478		1494160	
Price of building per sq.ft. of floor area (in Rs.)					800	750		700		650	