

**Construction of New Aganwadi Building at Various Village, Taluka: Karjan, Dist: Vadodara. (Pkg-23 Lakodara-1, Pingalvada Village)**

**BILL OF QUANTITIES**

Item No.	Item Description	Quantities	Unit	Item Rates	Amount
1	2	3	4	5	7
1	Demolition including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work	13.20	Cum	1056.58	13946.86
2	Demolition of Brick work and stone masonry including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.(ii) In Cement Mortar.	29.20	Cum	549.49	16045.11
3	Dismantling tiled of stone floors laid in mortar including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.	105.00	Sqmt	47.94	5033.70
4	Dismantling doors, windows, ventilators etc. (wood or steel) shutters including chowkhats architraves, holdfasts and other attachment etc. complete and stacking them within all lead and lift.(i) Not exceeding 3 Sq.M. in area.	34.00	Each	187.52	6375.68
5	Dismantling steel work including distempering and stacking the materials with all lead and lift.	377.20	Kg	3.76	1418.27
6	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead. (D) Soft rock not requiring Blasting	100.60	Cum	271.45	27307.87
7	Excavation for foundation for depth from 1.5 m to 3.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead. (D) Soft rock not requiring Blasting	20.00	Cum	294.67	5893.40
8	Filling in foundation and plinth with sand in layers of 20 cm. Thickness including watering ramming and consolidating etc. comp.	28.80	Cum	471.69	13584.67
9	Filling foundation and plinth with murrum or selected soil in layer of 20 cm in thickness including ramming watering and consolidating etc. complete	66.60	Cum	296.29	19732.91
10	Anti-Termite System: Providing and laying of permanent piping technology anti-termite treatment before flooring work by installing LLDP (Low linear density polyethylene) tube of 8 mm O.D. & 6.4 mm I.D. with inbuilt pressure compensation chip every 30 cm interval in the tube, having working pressure of 2 Kg/cm <sup>2</sup> and release rate of 1.9 ltr/hour fixed by P-clips and nails.The LLDP pipe shall be installed at the entire periphery of the building and at internal network of building at a depth of 20 to 200 mm under floor at every 2 to 3 mtr. c/c distance (adjusted as per building layout) & ends of loop pass through a PVC elbow of minimum 32 mm ID at junction box of wall and floor level, entering into a steel reinforced grooved flexible pipe of minimum 22 mm ID leading into junction box and the loops shall terminate in junction boxes & test every junction during injecting chemicals for termite control treatment.Providing and laying cement concrete 1:3:6 (1-Cement : 3-coarse sand : 6- machine cut stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth.	105.00	Sq.m	63.63	6681.15
11	Providing and laying cement concrete 1:3:6 (1-Cement : 3- coarse sand : 6-machine cut stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth.	27.04	Cum	3080.90	83307.54
12	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding reinforcement for reinforced concrete work in (A) Foundations, footings, and Mass concrete. footing	18.28	Cum	4733.30	86524.72
13	Providing and laying controlled cement concrete M-250 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in (D) Columns up to Plinth Level.	4.58	Cum	8022.77	36744.29

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1	2	3	4	5	7
14	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in (D) Columns on Ground Floor.	8.00	Cum	7973.61	63788.88
15	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in (D) Columns on Terrace Floor.	1.00	Cum	5824.09	5824.09
16	Providing and laying controlled cement concrete M-250 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in (C) Ground Beam and Plinth Beam	20.72	Cum	6324.04	131034.11
17	Providing and laying controlled cement concrete M-150 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in (C) Plinth Slab	12.00	Cum	4479.45	53753.40
18	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding reinforcement for reinforced concrete work in (C) Beam at Ground Floor	8.60	Cum	6258.02	53818.97
19	Providing and laying controlled cement concrete M-200 and curing etc. complete including the cost of form work and reinforcement for reinforced concrete work in (C) Chhajja at Ground floor	0.80	Cum	6750.73	5400.58
20	Providing and laying controlled cement concrete M-200 and curing etc. complete including the cost of form work and reinforcement for reinforced concrete work in (C) Lintel at Ground floor	0.82	Cum	8841.47	7250.01
21	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding reinforcement for reinforced concrete work in (C) Ground floor Slab	11.20	Cum	7417.53	83076.34
22	Providing TMT Bar FE 500D reinforcement with fusion bonded Epoxy coating not less than 175 micron thickness and up to 300 micron to reinforcement bars as per IS-13620-1993 /ASTM-775M (including testing of coating at plant and all taxes) for R.C.C. work including bending, binding and placing in position complete upto floor two level.	10480.60	kg	77.29	810045.57
23	Steel work, welded in built up sections framed work including cutting, hoisting, fixing in position and applying a priming coat of red lead paint. (A)In beams and joists, channels angles Tees, flats, with connecting plates or angle cleats as in main and cross beams. Hip and jack rafters, purlins conneted to common rafters and the like	3.52	Quintal	9108.48	32061.85
24	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint, brushing, interior to give an even shade including cleaning the surface an even shade including cleanicn the surface of all dirt, dust and other foreign matter.	10.80	Sqm	90.00	972.00
25	Providing and fixing M. S. grills of required pattern to frames of windows etc. with M. S. flats at required spacings and frame alround having min. weight of Grill 25kg/sq.m, square or round bars with round headed bolts and nuts or by screws including priming coat of approved quality and two coats of enamel paint, as directed by engineer in charge (A) Plain Grill	17.20	Sqm	2893.02	49759.94

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Item No.	Item Description	Quantities	Unit	Item Rates	Amount
1	2	3	4	5	7
26	Providing and fixing 90cm high Stainless steel railing made from anti corrosive 304 grade S. S. pipe of 50mm dia. (16 Gauge) as hand rail with S. S. 304 grade Balusters / Posts of Pipe 50mm dia. (16 Gauge) as a vertical support fixed in RCC slab at 1.2m c/c including two horizontal S. S. pipes of 16mm dia. (16 Gauge) at equal Distance fixed by 18.75mm dia (16 Gauge) S. S. pipe with baluster including accessories as per Detailed Drawing as directed etc. complete.	17.72	Rmt	2578.53	45691.55
27	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg/sq.cm. in foundation and plinth in cement mortar 1:6 (1 cement : 6 fine sand) Conventional	5.80	Cum	4121.55	23904.99
28	Brick work using common burnt clay building bricks having crushing strength not less than 35 Kg/Sq.cm. in super structure above plinth level upto floor two level in cement mortar 1:6 (1cement : 6 fine sand) Conventional (Ground Floor)	38.22	Cum	4396.56	168036.52
29	Brick work using common burnt clay building bricks having crushing strength not less than 35 Kg/Sq.cm. in super structure above plinth level upto floor two level in cement mortar 1:6 (1cement : 6 fine sand) Conventional (Terrace Floor)	6.40	Cum	4437.75	28401.60
30	Half brick masonry in common brunt clay building bricks having crushing strength not less than 35Kg/Sm. In C.M 1:4( 1cement : 4 coarse sand) in super structure. Conventional for Ground floor..	35.40	Sqm	667.96	23645.78
31	Providing and fixing 150 mm wide, approved quality chicken wire mesh at junction of brick work and RCC work or two dissimilar surfaces, at all heights fixed by nails, rowal plugs or tag by cement mortar 1:3 before applying the plaster, including curing etc. complete	28.60	Sqm	295.12	8440.43
32	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls / concrete wall for interior plastering and finished even and smooth along with floating coat of neat cement slurry etc. comp. in (ii) Cement mortar 1:4 (1-cement :4-sand) 1) Plaster at Ground Floor	369.80	Sqm	220.61	81581.58
33	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls / concrete wall for interior plastering and finished even and smooth along with floting coat of neat cement slurry etc. comp. in (ii) Cement mortar 1:4 (1-cement :4-sand) 2) Plaster at Terrace Floor	27.20	Sqm	243.94	6635.17
34	Providing 10 mm thick smooth cement plaster in single coat for plastering on ceiling and soffits of stairs and finished even and smooth along with floating coat of neat cement slurry etc. comp. (i) Cement mortar 1:4 (1 cement: 4 sand). 1) Plaster at Ground Floor	72.20	sq.m	203.98	14727.36
35	20mm thick double coat sand faced cement gutka plaster on walls upto height 10 metres above ground level consisting of 12mm thick backing coat of C.M. 1:3 (1-cement : 3-sand) and 8mm thick finishing coat of C.M. 1:1 (1-cement : 1-sand) including 1cm x 1cm grooves etc. complete.	226.80	sq.m	337.52	76549.54
36	Providing throating or plaster drip and moulding to R.C.C. Chhajja..	23.80	Rmt	42.02	1000.08
37	Applying two coats of (white cement based) or (acrylic lappy (putty)) or equivalent and two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth. for All floor.	380.00	sq.m	40.59	15424.20

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Item No.	Item Description	Quantities	Unit	Item Rates	Amount
1	2	3	4	5	7
38	Wall painting (three coats) with plastic emulsion paint of approved brand and manufacture on undecorated wall surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	307.80	sq.m	122.40	37674.72
39	Wall painting (two coats) with plastic emulsion paint of approved brand and manufacture on undecorated ceiling surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	72.20	sq.m	127.80	9227.16
40	Finishing wall with Weather proof exterior 100% acrylic emulsion paint With one coat of primer on wall surface to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete for All floor	316.00	sq.m	117.40	37098.40
41	Providing And filling with good quality cinder(steam coal) as directed by engineer in charge in sunks in layers of 15 cm thick,including watering,placing ,ramming well etc as directed, for all floor.	1.30	Cum	555.42	722.05
42	Provoding and fixing flush door shutters, solid core construction with frame of first class hardwood with cross board and face veneer or plywood face panels, including anodised alluminium butt hinges with necessary screws. (B) Non-decorative type and block board core anodised alluminium butt hinges in flush door shutters (2) 35 mm thick.	13.40	sq.m	1829.74	24518.52
43	Providing and fixing FRP frame size 100x50 mm and 28mm thick FRP depress panel shutter having extra reinforcement on sides & edges in Gel coat finish. The core of the shutter & frame is to be filed up with injected fire retardant grade polyurethane foam done in situ alongwith embedded wooden pieces for stiffening & also taking hinges & fintures. The whole FRP frame & shutter is to be water proof weather proof, termite proof & resistance to mild acid/alkali. Rates are to be inclusive of S.S hinges with necessary screws & alluminium fixtures & fastenings & fastener sleeve.	3.20	sq.m	2377.76	7608.83
44	Providing and fixing window having extruded aluminum Colour anodized section frame main outer size 95mm x 24mm x 1.17mm @ wt.of 0.738 Kg/mt , horizontal Three track member size 92mm x 31.75mm x 1.30mm,@ Wt.1.07 Kg/mt , vertical member of size 92mm x 31.75mm x 1.50mm @ Wt. 1.06 Kg/mt with sliding shutters of horizontal member size 40 mmx18mm x1.29mm @ wt.of 0.456 Kg/mt, vertical member of size 40mm x 18mm x 1.29 mm @ wt.of 0.456Kg/mt/ with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc	5.80	sq.m	1583.95	9186.91
45	Providing and fixing standared extruded of alluminium section of size 63mm x 38.10mm x 1.2mm @ Wt. 0.643 Kg/mt with colour anodized alluminium frame for ventilation with 5 mm thick frosted glass as details etc complete for Ventilation	7.60	Sq.m	1175.56	8934.26
46	P & L 24" x 24" vitrified 8 mm thick tile flooring over 20 mm (average) base of cement mortar 1:6 ( 1 cement: 6 coarse sand) on new surface or fixing on existing flooring by adhesive material including dismentaling of existing flooring and jointed with color cement slurry including finised with flush pointing & cleaning the surface etc. complete for antiskit	52.40	Sq.m	1432.78	75077.67

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1	2	3	4	5	7
47	Providing and laying Vitrified tiles 8 to 10 mm thick , in skirting risers of steps and dedo on 10mm thick cement plaster 1:3 (1-cement : 3-coarse sand) and jointed with white cement slurry	8.20	Sq.m	1577.32	12934.02
48	Providing and laying Machine cut, free edges, mirror polished Granite Slab flooring over 18mm (Average) thick base of cement mortar 1:6 (1-cement : 6-coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete. (A) 18mm thick	17.40	Sq.m	2349.99	40889.83
49	Providing and laying Machine cut, free edges, mirror polished Granite Slab 18mm thick in risers of steps,skirting Dedo and pillars laid on 10mm thick cement mortar 1:3 (1-Cement : 3 coarse sand) and jointed with gray cement slury mixed with pigment to match the shade of slab including rubbing and polishing etc. complete	2.60	Sq.m	2310.17	6006.44
50	Providing and laying Ceramic tiles 6mm thick in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand ) finishing with flush pointing in white cement.	2.80	Sq.m	1171.59	3280.45
51	Providing and laying Ceramic tiles 6mm thick in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand ) finishing with flush pointing in white cement.	30.80	Sq.m	1020.71	31437.87
52	Providing and laying polished Kota stone slab flooring over 20mm (Average) thick base of cement mortar 1:6 (1-cement : 6-coarse sand) or L.M. 1:1.5 laid over and jointed with grey cement slurry including rubbing and polishing etc. complete. (B) 30 mm thick	4.20	Sqm	1069.62	4492.40
53	Providing and fixing mirror polished 18 mm thick Granite with full round edge and polished of approved quality in clading on sill and around the doors/ windows/ ventilation with 20 mm thick cement plaster CM (1:4) and fixing with cement slurry & adhesive including moulding of exposed edges as directed by engineering in charge etc. complete.	11.60	Sqm	2215.85	25703.86
54	Providing and laying 40 mm thick IPS (Indian Patent Stone) flooring in cement concrete 1:2:4 (1-cement : 2-coarse sand : 4-graded stone aggregate of 20 mm nominal size) laid in one layer over prepared base and finished with a smooth floating coat of neat cement mixed with approved yellow colour pigment of required shade at 0.35 kg/Sq.m to obtain uniform colour and finish, including surface preparation, compacting, trowel finishing, curing and complete as directed by Engineer-in-Charge.	25.10	Sqm	314.50	7893.95
55	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8 mm having with water absorption less than 0.5% and conforming to IS:15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20 mm thick base of cement mortar 1:4 (1 cement: 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	20.40	Sqm	2037.78	41570.71
56	Providing and laying broken chine mosaic flooring for terrace using 12 mm to 20 mm broken pieces of glazed tiles to be laid over cement mortar 1:3 to plain or slope and to be tempered to bring mortar creme out upto surface using white cement including rounding off junctions and extending them upto 15 cm along the wall,clearing with water and oxalic acid etc. as directed	105.00	Sqm	765.97	80426.85
57	Providing erecting and fixing double coated Syntex PVC. (ISI) water tank of required capacity each with all necessary fittings and connection etc. complete on terrace.	4000.00	Litre	3.95	15800.00

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1	2	3	4	5	7
58	Providing laying and jointing in true line and level 40mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	20.00	Rmt	148.12	2962.40
59	Providing laying and jointing in true line and level 25mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	16.00	Rmt	91.84	1469.44
60	Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	12.00	Rmt	72.65	871.80
61	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. [E] 40mm.	20.00	Rmt	447.72	8954.40
62	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. [C] 25mm.	16.00	Rmt	253.82	4061.12
63	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. [A] 15mm.	12.00	Rmt	170.36	2044.32
64	Providing laying (to level or slopes) and jointing reinforced concrete Light duty non-pressure pipes I.S. class NP2 of the following internal diameter with collars and butt ends prepared for collar joints including testing of joints complete.(D) 300mm	20.00	Rmt	678.01	13560.20
65	Providing and fixing cast iron spigot and socket soil, waste and ventilating pipes of the following nominal size.(C) 100mm dia.	12.00	Rmt	892.39	10708.68
66	Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 100 mm diameter with jali of the following nominal diameter of self cleansing design with C.I screed down or hinged grating including the cost of cutting and making good the walls.	4.00	No	572.32	2289.28
67	Provision, Supplying and fixing White vitrious ching W.C. squatting pan Orrisa type 580 x 400 size with 100mm P or S trap, 25mm dia. C. P. Brass flush valve and G. I. inlet connection etc. comp. (A) Vitreous ching long pattern white or color.	2.00	No	1628.83	3257.66
68	Providing and fixing brass screw down stop tap.(A) 15mm dia.	8.00	Each	205.83	1646.64
69	Providing and fixing ball cock of approved. quality as directed.(A) Copper Metal (ii) 50mm dia.	2.00	Each	189.84	379.68
70	Providing and fixing washbasin with single hole for pillar tap with C.I. or M.S. brackets painted white including sutting holes and making good the same but excluding fittings.(A) Vitreous China:(ii) Flat Back washbasin 550 mm x v 400mm size. (i) In white colour.	4.00	Each	1416.93	5667.72

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1	2	3	4	5	7
71	Providing and fixing C.P. brass waste for washbasin or sink. (A) 32mm dia.	4.00	Each	67.91	271.64
72	Providing and fixing M.I. fisher union for washbasin or sink. (A) 32mm dia.	4.00	Each	78.75	315.00
73	Providing and fixing 600mm x 450mm bevelled edge mirror of superior glass mounted on 6mm thick A.C. sheet or plywood sheet and fixing to wooden pluge with C.P. brass screws and washers.	2.00	Each	854.58	1709.16
74	Providing and fixing screw down bib taps of following size.(A) Brass screw down bib tap polished bright. (i) 20mm dia.	4.00	Each	214.81	859.24
75	Providing and fixing pillar tap, capstan head, screw down high pressure with screws, shanks and back nuts. (i) 15mm dia.	4.00	Each	308.73	1234.92
76	Providing and fixing Rubber plug for sink or wash basin.	4.00	Each	17.15	68.60
77	Providing and fixing S.W. gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300mm x 300mm size (inside) with standard weight (i) Square mouth traps (B) 150mm x 100mm size P or R type	2.00	Each	1246.92	2493.84
78	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg/Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg. ) (R.C.C. top slabe with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(i) Inside dimensions 455mmx 610mm and 450mm deep for single pipe line.	2.00	Each	2932.93	5865.86
79	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg/Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg. ) (R.C.C. top slabe with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(ii) Inside dimensions 500mm x 700 mm and 450mm deep for pipe line with one or two inlets.	2.00	Each	3660.76	7321.52
80	(B) Providing sock pit of 5.00 Cu.M. Volume including excavating and filling brickbats with dry masonry work at top for 45cm. height including covering the top with stone including providing vatas in C.M. 1:3 with finishing curing etc. complete as directed.	2.00	Each	3427.65	6855.30
81	Constructing a cooking platform 60 cm. width and 70 cm high resting on B.B.Masonry walls 23 cm.thick in C.M.(1:6) with (ii) Fixing black kadappa stone 30mm thick laid on precast R.C.C. (1:2:4) slab with plastering on exposed faces of wall in C.M. (1:4) etc complete.	4.00	Rmt	2656.06	10624.24

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1	2	3	4	5	7
82	Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed. (c) with oval conduit /PVC casing capping double lock type erected flushed on wall/ceiling complete. iii) Cat.: III	20.00	Pt	407.03	8140.60
83	Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (c) with oval conduit /PVC casing capping double lock type erected flushed on wall/ceiling complete. iii) Cat.: III	4.00	Pt	595.90	2383.60
84	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard / mcb db board. (c) with oval conduit /PVC casing capping double lock type erected flushed on wall/ceiling complete. iii) Cat.: III	2.00	Pt	431.27	862.54
85	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board.(c) with oval conduit /PVC casing capping double lock type erected flushed on wall/ceiling complete. iii) Cat.: III	4.00	Pt	614.08	2456.32



**Construction of New Aganwadi Building at Various Village, Taluka: Karjan, Dist: Vadodara. (Pkg-23 Lakodara-1, Pingalvada Village)**

**BILL OF QUANTITIES**

Item No.	Item Description	Quantities	Unit	Item Rates	Amount
1	2	3	4	5	7
86	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories. iii) Cat.: III	4.00	Pt	257.55	1030.20
87	Supplying and erecting approved make of tube fitting with One no T-5 tube 24/ 28 W with Electronic ballast with each tube separately THD less than 10 & built in adaptors, GI / PVC housing & mirror optic reflector, suitable to work on 120V - 300V, A.C. supply with connector and adapter if required. [Make of fitting & tube may be differ& fitting shall be providing with tube]. ii) Cat.: III	4.00	Ea	480.76	1923.04
88	Providing & erecting Approved make Ceiling Fan with double ball bearing ISI mark with condenser A.C.230V 50c/s. 1400 mm. sweep complete, canopy erected on existing hook or clamp with earthing [ Make shall be approved by Engineer in Charge]	4.00	Ea	1738.21	6952.84
89	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing.	1.20	Mtr	108.07	129.68
90	Replacing approved make fan regulator resistance type for Ceiling fan {credit of D.M. retained by Agency.}	4.00	Ea	90.90	363.60
91	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt ,LED LED driver efficiency > 85 % ( fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (v) 36-40 Watts, Surge-2 KV, IP-20, conventional 4 feet iii) Cat.: III	4.00	Ea	535.30	2141.20
92	Supplying and erecting led lamps with following wattage capacity of 220 to 240 voltage, minimum 15000 burning hours life, 500 V in built-surge protection,Polycarbonate diffuser, mounting suitable for E14 / E27 / B22 lamp holders, pf >= 0.5 (A) LED Lamps integral type, with PC diffuser suitable LAMP holder (iv) 16 to 20 watts	16.00	Ea	258.56	4136.96
93	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (B) With 16 swg HGS metal conduit pipe and accessories painted black. (b) 2 wire 2.5 sq. mm	60.00	Mtr	82.82	4969.20
94	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark. iii) Cat.: III	6.00	Ea	112.11	672.66
95	Providing & erecting 240 V MCB double pole switch for lighting Load (B Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (B) 40 Amp. iii) Cat.: III	2.00	Ea	295.93	591.86

**Construction of New Aganwadi Building at Various Village, Taluka: Karjan, Dist: Vadodara. (Pkg-23  
Lakodara-1, Pingalvada Village)**

**BILL OF QUANTITIES**

<b>Item No.</b>	<b>Item Description</b>	<b>Quantities</b>	<b>Unit</b>	<b>Item Rates</b>	<b>Amount</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>7</b>
96	Providing and erecting Sheet Steel powder coated MCB distribution board flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (iv)12 way	2.00	Ea	867.59	1735.18

**Construction of New Aganwadi Building at Various Village, Taluka: Karjan, Dist: Vadodara. (Pkg-23 Lakodara-1, Pingalvada Village)**

**BILL OF QUANTITIES**

Item No.	Item Description	Quantities	Unit	Item Rates	Amount
1	2	3	4	5	7
97	Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (ii) 40Amps. DP. iii) Cat.: III	2.00	Ea	2235.13	4470.26
98	Providing and erecting Sheet Steel powder coated MCB distribution board flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (iv)12 way Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (ii) 40Amps. DP. iii) Cat.: III Supplying & erecting earth pit of minimum bore dia.150mm size approved make Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover.	2.00	Ea	4591.46	9183.00
99	(A) Street Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection. (i) above 36 to 48 watts (ii) Cat: III	2.00	Ea.	3345.12	6690.24
100	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(C) Hard Murrum	44.44	Cum	262.52	11666.39
101	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 & watering.	28.62	Cum	133.66	3825.35
102	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in (D) Columns on Ground Floor.	1.62	Cum	7729.18	12521.27
103	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in (C) Coping	0.84	Cum	835.84	702.11
104	Providing and fixing pre-cast concrete kerb stone of gray cement based concrete block 30cm length,30cm height and 15cm thick of M200 grade concret as per approved design and including excavation for fixing in proper line and level,filling the joint with C:M 1:3 (1cement:3fine sand) etc complete.	18.80	Rmt	394.59	7418.29
105	Providing and fixing pre-cast Rubber Dye / steel Dye inter locking concrete block 60mm thick with grade of concrete M300 pneumatic compressed / vibrated mechanically and as per approved design Confirming to IS 15658 : 2006 including 35 mm Sand layer for levelling and filling the joint with sand in proper line and level as per guidlines of IRC : SP 63-2018 etc. Complete.	24.26	Sqmtr	704.08	17080.98

**Construction of New Aganwadi Building at Various Village, Taluka: Karjan, Dist: Vadodara. (Pkg-23 Lakodara-1, Pingalvada Village)**

**BILL OF QUANTITIES**

Item No.	Item Description	Quantities	Unit	Item Rates	Amount
1	2	3	4	5	7
106	Providing and creating educational information, learning charts, child-friendly graphics, alphabet charts, number charts, village scenes, thematic illustrations, photographs and other approved designs directly on wall surfaces by hand painting using approved quality weather-resistant acrylic/emulsion paints of required shades and colours, including surface preparation, sketching, lettering, artistic work, colouring, finishing wherever required, and all labour, materials, scaffolding, tools & tackles, transportation and incidental charges complete as directed by the Engineer-in-Charge.	111.40	Sq.m	383.80	42755.32
107	Preparing and making Scribble Wall on wall surfaces using approved green chalk paint finishing, which is suitable for writing and drawing. Cost include surface preparation, cleaning and smoothening, application of required primer or base coat when needed and finally applying the approved green chalk paint for making a smooth, durable and uniform writable surface. The above work will include finishing of border, labour, materials, tools, scaffolding, transportations, etc., all included as per directions by the Engineer-in-Charge.	7.20	Sq.m	489.85	3526.92
108	Providing and fixing Fabric Finished Pin-Up Board of approved quality and size with fabric covered soft board/cork board surface mounted on suitable backing material and frame, including necessary base fittings, screws, fixtures, supports and all accessories required for complete installation as per approved drawing and specifications. The rate shall include all materials, labour, tools & tackles, transportation and incidental charges complete as directed by Engineer-in-Charge.	4.80	Sq.m	2272.50	10908.00
109	Providing and fixing Child Height Measuring Scale / Growth Chart of approved quality having measuring range of approximately 0.30 m to 1.50 m or as approved, made from durable printed P.V.C./sunboard or equivalent market available material with clear graduation markings in centimetres and child-friendly graphics, having smooth finished edges and complete with necessary fixing arrangements, screws, adhesive and accessories including all materials, labour, transportation and incidental charges complete as directed by Engineer-in-Charge."	2.00	Each	1464.50	2929.00
110	Providing, supplying, installing, testing and commissioning LED Display Screen of approved make/brand having minimum 32 inch screen size or as approved, Full HD (1920 × 1080) resolution, LED display technology with inbuilt speakers, HDMI and USB connectivity, wall mounting arrangement with necessary brackets, power cable, remote control and all accessories required for complete installation and proper functioning including transportation, labour, testing and commissioning complete as directed by Engineer-in-Charge.	2.00	Each	13635.00	27270.00
111	Supplying & erecting 5 stage single reverse osmosis water purification system with M.S. powder coated frame, prefilter housing with 'O' ring presediment filter GAC filter, carbon filter suitable buster DC pump capacity 80 psi, mention with 40 psi inline type post carbon filter auto low & high pressure switches with following size of storage tank & LPH capacity & erected as directed [A] 10 Ltr / Hr with 7 Ltr StorageTank	2.00	Each	13053.24	26106.48

**Construction of New Aganwadi Building at Various Village, Taluka: Karjan, Dist: Vadodara. (Pkg-23 Lakodara-1, Pingalvada Village)**

**BILL OF QUANTITIES**

Item No.	Item Description	Quantities	Unit	Item Rates	Amount
1	2	3	4	5	7
Total					2914941.36
Twenty Nine Lakh Fourteen Thousund Nine Houndred Forty One & Thirty Six Paisa Only					

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- (A) Total Tendered Amount \_\_\_\_\_
- (B) Rebate on Tendered Amount (if any) \_\_\_\_\_% (in Figures) Rs. \_\_\_\_\_  
(In words \_\_\_\_\_ Only).
- (C) Net Tendered Amount (A – B) \_\_\_\_\_  
(Rs. in Words \_\_\_\_\_ Only).

**(\* Please strike out whichever is not applicable).**

**Note**

- All work shall be carried out as per public works Department Handbook and other specifications of Division or as directed.
- All the columns is Schedule should be filled in ink and the total of the entries in the last column should be struck by the contractor under his signature.
- Rates quoted include clearance of site (Prior commencement of work and as its close) in all respects and hold good for work under all conditions, site, moisture, weather etc.
- To be Continued on additional sheets, if found necessary.
- 1.00 % of Construction cost shall be deducted form Bill. Amount of Contract as per the Building and other Construction worker's welfare cess Act - 1996 (Labour & Employment Department Letter No. CWA - 2004 - 1831 - M (3). Dt. 9-12-05, Notification of Labour & Employment Department Dtd. 03-01-05 and Labour & Employment Department letter No. CWA / 2004-841-M(3), Dt. 14-12-05).
- Credit of dismantled materials of amount of Rs.2500 must be recovered from Contractor's first R.A Bill.
- For abnormal high or low rates payment of such items shall be regulated as per Govt. circular No. PARACH / 102008 / 61 / S, Dt. 27/11/2008 attached with tender papers.
- The contractor shall exhibit a board as per Government Circular No. Vernacular TNC/1090/24/S dated 05.03.2011 with details specifications and details of works and amount involved at site at his own cost as directed by Engineer-in-charge.
- Testing of material shall be done as per statement attached with specification. The material should be tested in GERI or Private laboratory approved by Govt. of Gujarat. Bill for testing charges should be paid by Executive Engineer and 1% of Estimated cost computed after deducting the cost of materials to be supplied by the Govt. and shall be recovered from the contractor's running bill as per Govt., R&B Department No. TNC-1085/(4)/C Dtd 20-12-91.
- In all R.C.C. items in rate analysis, standard cement consumption has been taken as per Govt. GR. PRC- 10/ 2017/ Cement Consumption/ 16/ C/ Dt.11-5-2017 as stated in SOR therefore in RCC items where there is a change as per actual mix design the cost of difference of cement consumption shall be deducted from the rate of original item at the rate of input rate mentioned in the tender.
- The Contractor is solely responsible to bare all applicable taxes i.e. GST etc. & department will not entertain any contractor representation to reimburse any financial burden due to applicable taxes i.e. GST etc.

**Dated Signature of  
the Contractor.**

**Deputy Executive Engineer  
Panchayat (R&B) Sub Division  
Karjan**