

GENERAL ABSTRACT OF CONSTRUCTION OF GIRLS ASHRAM BUILDING AT JADBIJORI						
CIVIL WORK						
S. No.	SOR	Description	Qty.	Unit	Rate	Amount
1	2.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. in all kinds of soil.				
			30.00	100/Sqm	803.00	24090.00
2	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil				
			1345.28	m ³	147.00	197756.00
3	2.25	Extra for every additional lift of 1.5 m or part thereof in excavation. (No extra lift is payable if work is done by mechanical means)				
			336.32	m ³	30.00	10090.00
4	2.32	Preconstruction antitermite treatment to the building under construction by providing. Stage 1: Treating the bottom and the sides (upto 30 cm height of the excavated trench @ 5 liters per sqm of the surface area. Stage 2: After masonry/RCC work, the backfill in the immediate contact with the foundation structure treatment @ 7.5 liters per sqm. Of the vertical surface of the substructure for each side. Stage 3: surface treatment by spreading emulsion over the plinth area before laying the base concrete under floors @ 5.0 litres/Sqm. Stage 4: Pumping the emulsion in plinth masonry on filling side at floor junction @ 7.5 litres/Sqm. Stage 5: Pumping the emulsion from outer side of the plinth below ground around the masonry @ 5.0 litres/Sqm as per I.S. 8944 Emulsion. (1Chlorpyrifos: 19 water) with five years service guarantee (Measurements to be taken for plinth area) Note – Treatment should start when foundation trenches and pits are ready to take bed concrete or leveling course in foundations. Laying of bed concrete should start when the chemical emulsion has been absorbed by the soil and the surface is reasonably				
			750.000	m ²	136.00	102000.00
5	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
	4.1.2	With 40mm nominal size graded stone aggregate.				
	4.1.2.2	M-10 Nominal (Mix -1 Cement : 3 sand : 6 graded stone aggregate)	49.370	m ³	3808.00	188001.00
6	5.1	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	5.1.1	M-20 Grade Concrete				
			260.954	m ³	6153.00	1605650.00
7	5.16	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")				
	5.16.6	Thermo-Mechanically Treated bars. FE 500 or more conforming to IS 1786	24399.20	Kg	80.00	1951936.00
8	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
a	5.9.1	Foundations, footings, bases of columns, etc. for concrete upto plinth level				
			929.763	m ²	190.60	177213.00
b	5.9.2	Walls (any thickness) including attached pilasters buttresses, plinth beams and string courses etc.				
	5.9.2.1	Upto plinth level.	110.856	m ²	219.00	24277.00

9	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
	4.1.2	With 40mm nominal size graded stone aggregate.				
	4.1.2.2	M-10 Nominal (Mix -1 Cement : 3 sand : 6 graded stone aggregate)	1.462	m ³	3808.00	5567.00
10	6.5	Brick work with well burnt open bhatta, bricks, crushing strength not less than 25kg /cm ² and water absorption not more than 20% in foundation and plinth i/c curing etc complete.				
	6.5.2	Cement Mortar 1:6 (1 cement: 6 sand).	10.085	m ³	4155.00	41903.00
11	2.24	Filling available excavated earth (excluding hard rock/Ordinary 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.				
			351.823	m ³	95.00	33423.00
12	2.27	Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete.				
	2.27.1	With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:- maximum thickness of this layer to be provided shall be 30cm)	851.091	m ³	393.00	334479.00
13	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
	4.1.2	With 40mm nominal size graded stone aggregate.				
	4.1.2.2	M-10 Nominal (Mix -1 Cement : 3 sand : 6 graded stone aggregate)	96.150	m ³	3808.00	366139.00
14	5.2	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and upto floor two level excluding cost of centering, shuttering, finishing and reinforcement:				
	5.2.1	M-20 Grade Concrete	32.020	m ³	6231.00	199517.00
15	5.3	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.				
	5.3.1	M-20 Grade Concrete	222.80	m ³	6541.00	1457335.00
16	5.16	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")				
	5.16.6	Thermo-Mechanically Treated bars. FE 500 or more conforming to IS 1786	26755.89	Kg	80.00	2140471.00
17	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
a	5.9.6	Columns, P i l l a r s , Piers, Abutments, Posts and Struts.	533.60	m ²	471.20	251432.00
b	5.9.5	Lintels, beams, girders, bressumers and cantilevers	571.697	m ²	356.00	203524.00
c	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	714.822	m ²	439.60	314236.00
d	5.9.7	Stairs, (excluding landings) except spiral- Staircases.	17.986	m ²	435.70	7837.00

18	6.7	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :				
	6.7.3	Having 50 kg / cm ² average compressive strength.				
	6.7.3.2	Cement Mortar 1:6 (1 cement: 6 sand).	320.92	m ³	4936.00	1584061.00
19	6.11	Extra for brick work in superstructure above floor two levels for each additional floor or part thereof respective item.				
			3.257	m ³	98.72	322.00
20	6.15	Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS: 12894, in super structure above plinth and upto floor two level.				
	6.15.3	Having 50 kg/cm ² average compressive strength.				
	6.15.3.2	Cement mortar 1:4 (1 cement : 4 sand)	164.340	m ²	459.00	75432.00
21	10.12	Providing and fixing pressed steel door frames made of 1.6 mm thick steel profile conforming to IS: 4351 manufactured from commercial mild steel sheet including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.60 mm pressed mild steel welded or rigidly fixed together by mechanical means, including 2.5mm thick M.S. pressed butt hinges, with mortar guards, lock strike-plate and shock absorbers as specified filling the frame with Cement Concrete 1:3:6 at site before fixing (cost of concrete to be paid separately) fixing with adjustable lugs (200 mm long & 1.0 mm thick) and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:				
	10.12.2	Profile C of 1.60mm thick single rebate of size 100mmx50mm				
	10.12.2.1	Fixing with adjustable lugs with split end tail to each jamb.	175.30	Rm	431.00	75554.00
22	9.18	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutter.				
	9.18.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.				
			58.015	m ²	2823.00	163776.00
23	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer. Rate includes recess cutting in floor and making good the same wherever required.				
			5.280	m ²	4132.00	21817.00
24	11.36	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 sand) 25 mm thick.(Area of slab to be over 0.25 sqm)				
			760.918	m ²	1174.00	893318.00
25	11.38	Kota stone slabs in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.				
	11.38.2	20 mm thick	114.14	m ²	1231.00	140506.00
26	11.48	Extra for Kota stone/ sand stone in treads of steps and risers using single length upto 1.05 metre.				
			121.539	m ²	10.00	1215.00
27	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix				
	13.2.2	Cement Mortar 1:6 (1 cement : 6 sand)				
			2554.720	m ²	168.00	429193.00
28	13.3	20 mm cement plaster of mix :				
	13.3.2	1:6 (1 cement : 6 sand)				
			1560.625	m ²	225.00	351141.00
29	13.8	6 mm cement plaster of mix : 1:3 (1 cement : 3 sand)				
			676.972	m ²	144.00	97484.00

30	11.49	Providing and laying Ceramic glazed floor tiles 300x300 mm or more (having thickness 6 to 7mm) of 1st quality conforming to IS : 15622 of approved make in any colours and shade laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 sand) including pointing the joints with white cement and matching pigment etc., complete.				
			22.410	m ²	670.00	15015.00
31	11.50	Providing and fixing Ceramic glazed wall tiles 300x450 mm or more (having thickness 6 to 7 mm) of 1st quality conforming to IS: 15622 of approved make in all Colours& shades, except burgundy, bottle green, black laid on 12mm thick bed of Cement Mortar 1:3 (1 Cement: 3 sand)prepad same day when mortar is still green jointed with grey cement slurry @3.3 kg per sqm including pointing the joints with white cement and matching pigments etc., complete.				
			278.160	m ²	776.00	215852.00
32	13.54	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
	13.54.3	Two or more coats applied on walls @ 1.25 ltr/10 sqm. Over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm.				
			3072.317	m ²	81.00	248858.00
33	13.50	Finishing walls by any mechanical or manual means with water proofing cement paint of required shade: New work (Two or more coats applied @				
			1720.000	m ²	48.00	82560.00
34	13.54	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
a	13.54.1	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/ 10 sqm of approved brand or manufacture				
			125.160	m ²	69.00	8636.00
b	13.54.2	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand or manufacture.				
			313.770	m ²	71.00	22278.00
35	10.23	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying a priming coat of approved steel primer.				
	10.23.1	M.S. tube.				
		For Stair case	247.23	KG	117.00	28926.00
36	9.43	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
	9.43.2	Fixed to openings /wooden frames with rawl plugs screws etc.				
			1868.75	KG	128.00	239200.00
37	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
a	21.1.1	For fixed portion.				
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	413.10	sqm	416.00	171850.00

b	21.1.2	For shutters of doors, windows and ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).				
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	275.39	sqm	484.00	133289.00
38	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item) :				
	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10 kg/sqm)	98.36	sqm	774.00	76131.00
39	21.4	Add extra for providing and fixing frosted glass instead of float glass				
	21.4.1	With glass panes of 4.0 mm thickness (weight not less than 10 kg/sqm)	98.36	sqm	259.00	25475.00
40	9.124	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.				
	9.124.2	With 12 mm mild steel U beading.	49.18	sqm	1370.00	67377.00
41	11.72	Providing and laying factory made chamfered edge Cement Concrete paver blocks of required colour strength, thickness pattern, surface texture (smooth/rough) and size/shape, conforming to 15658-2006 IS marked made by table vibratory method using PU mould, laid in required colour and pattern over 50mm thick compacted bed of stone dust, compacting and proper embedding/ laying of inter locking paver blocks into the bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand including locking edges in 0.30 mm with courtyards, porch with M 15 cement concrete in footpath, parks, lawns, drive ways or light traffic parking etc. complete as per manufacturer's specifications and direction of Engineer-in-Charge.				
	11.72.3	60 mm thick C.C. paver block of M-30 grade				
		TOTAL	192	sqm	605	116160.00
42	11.73	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in- Charge).				
		TOTAL	3.375	sqm	6097	20577.00
43	13.37	Providing and fixing writing board green writing with chalk (regular modified polyster coated steel surface) of sizes.				
	13.37.1	size 1200mmx1800mm	6.00	Each	7436	44616.00
44	22.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	97.88	Sqm	207	20261.00
45	4.26	Providing and laying cement concrete in sunken floors of WC, Toilets, Wash Areas etc with 1:5:10 (1 cement:5 coarse sand (zone-III) :10 graded stone aggregate 40 mm nominal size) excluding the cost of centering and shuttering.	11.87	Cum	3140	37272.00

46	22.6	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying : a) After surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. b) Laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. c) Third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around.	730.00	Sqm	338.00	246740.00
S. No.	SOR	Description	Qty.	Unit	Rate	Amount
47	22.14	Grading roof for receiving water proofing treatment with				
a	22.14.1	Cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size)	40.15	Cum	6569.00	263745.00
b	22.14.3	Cement mortar 1:4 (1cement : 4 sand)	14.60	Cum	8437.00	123180.00
Total Cost of Civil Work for Ashram Building						15678693
PLUMBING & SANITARY						
S.N O	S O	PARTICULARS	QTY	UNIT	RATE In RS.	AMOUNT In RS.
1	2.9	Excavating trenches of required width for pipes, cables, etc. Including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : (No extra lift is payable if work is done by mechanical means) in All kinds of soil				
	2.9.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	230.000			
		TOTAL	230.000	Meter	156	35880.00
2		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings. This included jointing of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer-in- Charge. External Work				
	18.7.6	50 mm nominal outer dia .Pipes.	55			
		TOTAL	55	M	498.00	27390.00
3		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge.				
a	18.6.1	Internal work - Exposed on wall				
i	18.6.1.	40 mm nominal outer dia .Pipes.	100			
		TOTAL	100	M	354.00	35400.00
ii	18.6.1.	50 mm nominal outer dia .Pipes.	50			
		TOTAL	50	M	528.00	26400.00
b	18.6.2	Concealed work including cutting chases and making good the walls etc.				
i	18.6.2.	15 mm nominal outer dia .Pipes.	29.978			
		TOTAL	29.978	M	207.00	6205.00
ii	18.6.2.	25 mm nominal outer dia .Pipes.	100			
		TOTAL	100	M	288.00	28800.00
iii	18.6.2.	32 mm nominal outer dia .Pipes.	80			
		TOTAL	80	M	360.00	28800.00
4	18.13	Providing and fixing CPVC gate valve with knob of approved quality.				
a	18.13.	25 mm nominal bore.	10			
		TOTAL	10	Each	428.00	4280.00
b	18.13.	32 mm nominal bore.	10			
		TOTAL	10	Each	500.00	5000.00
c	18.13.	40 mm nominal bore.	10			
		TOTAL	10	Each	584.00	5840.00
d	18.13.	50 mm nominal bore.	10			

		TOTAL	10	Each	749.00	7490.00
5	17.58	Providing and fixing unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type B including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Single socketed pipes for working pressure of 4 kg/sqcm. (minimum wall thickness 3.2mm)				
a	17.58.	75 mm diameter	100			
		TOTAL	100	RM	136.00	13600.00
b	17.58.	110 mm diameter	80			
		For Rain water pipe 110mm dia.	200			
		TOTAL	280	RM	238.00	66640.00
6	17.59	Providing and fixing unplasticised PVC moulded fittings/ accessories for unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
a	17.59.	Coupler				
	17.59.	75 mm	20			
		TOTAL	20	Each	117.00	2340.00
	17.59.1.2	110 mm	60			
		TOTAL	60	Each	154.00	9240.00
b	17.59.	Single tee with door				
	17.59.	75x75x75 mm	15			
		TOTAL	15	Each	219.00	3285.00
	17.59.3.2	110x110x110 mm	40			
		TOTAL	40	Each	346.00	13840.00
c	17.59.	Single tee without door				
	17.59.	75x75x75 mm	15			
		TOTAL	15	Each	201.00	3015.00
	17.59.	110x110x110 mm	40			
		TOTAL	40	Each	266.00	10640.00
d	17.59.	Bend 87.50				
	17.59.	75 mm bend	40			
		TOTAL	40	Each	117.00	4680.00
	17.59.	110 mm bend	100			
		TOTAL	100	Each	172.00	17200.00
7	MP UADD SOR - 23.62	Providing and fixing on wall face unplasticised PVC moulded fittings/ accessories for unplasticised (PVC u) soil and waste pipes conforming to IS: 13592 Type B including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
	23.62.8	Single Y Bend				
	23.62.8.1	75 mm	15			
		TOTAL	15	Each	112.00	1680.00
	23.62.8.2	110 mm	30			
		TOTAL	30	Each	177.00	5310.00
	23.62.9	Single Y with Door				
	23.62.9.1	75 mm	15			
		TOTAL	15	Each	123.00	1845.00
	23.62.9.2	110 mm	30			
		TOTAL	30	Each	201.00	6030.00
	23.62.5	Bend 87.50				
	23.62.5.1	75 mm	25			
		TOTAL	25	Each	72.00	1800.00
	23.62.5.2	100 mm	40			
		TOTAL	40	Each	101.00	4040.00
	23.62.7	Vent Cowl (Self Fit)				
	23.62.7.1	75 mm	16			
		TOTAL	16	Each	44.00	704.00
	23.62.7.2	110 mm	24			
		TOTAL	24	Each	52.00	1248.00
8	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, UPVC 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 :				
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.				
		TOTAL	5	Each	2995.00	14975.00

9	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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 :				
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid.				
		TOTAL	3	Each	3036.00	9108.00
10	17.11	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 required :				
a	17.11.3	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps.				
		TOTAL	6	Each	1938.00	11628.00
b	17.11.7	White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap.				
		TOTAL	2	Each	1525.00	3050.00
11	17.14	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :				
a	17.14.1	Kitchen sink with drain board				
	17.14.1.3	510x1040 mm bowl depth 200mm.				
		TOTAL	1	Each	7493.00	7493.00
b	17.14.2	Kitchen sink without drain board				
	17.14.2.2	610x460 mm bowl depth 200 mm.				
		TOTAL	1	Each	4351.00	4351.00
12	17.67	Providing and fixing bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.				
		TOTAL	2.16	Sqm	2440.00	5270.00
13	17.64	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.64.2	Flexible pipe (only in residential & complexes)				
	17.64.2.1	32mm Dia.				
		TOTAL	11	Each	87.00	957.00
14	17.61	Providing and fixing UPVC trap of self cleaning design complete. Including cost of cutting and making good the wall and floors. 100 mm inlet and 75 mm outlet				
		TOTAL	20	Each	517.00	10340.00
15	18.37	Providing and fixing C.P. brass pillar cock approved quality and make conforming to IS: specification. 15 mm nominal bore 125 mm long foam flow.				
		TOTAL	2	Each	1188.00	2376.00
16	18.35	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15 mm nominal bore				
		For Basin and geyser points				
		TOTAL	25	Each	714.00	17850.00
17	18.17	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	18.17.1	30 cm length				
		TOTAL	25	Each	88.00	2200.00
18	18.31	Providing and fixing C.P. brass bib cock of approved quality conforming to IS: 8931, 15 mm nominal bore.				
		TOTAL	25	Each	840.00	21000.00
19	18.34	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS: 8931. 15 mm nominal bore.				
		TOTAL	15	Each	1155.00	17325.00
20	25.36	Providing and fixing in position best Indian (bonut size 24mm, ceramic disc size 19mm and min. body thickness 2mm, nickel plating 0.10 micron and chrome plating 0.3 micron, quarter turn) 2- way Bib Cock .(Premium Range)				
		TOTAL	3	Each	2687.00	8061.00

21	25.37	Providing and fixing in position best Indian Health Faucet with 8mm dia 1 meter long Flexible Tube and wall bracket with N. R. V. (non-return wall). (Premium Range Sanitary Ware)				
		TOTAL	3	Each	1818.00	5454.00
22	18.43	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
		TOTAL	8	Each	130.00	1040.00
23	18.14	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
	18.14.3	25 mm nominal bore				
		TOTAL	10	Each	499.00	4990.00
24	18.28	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				
		TOTAL	10000	per litre	7.00	70000.00
		Sewage line work				
25	19.9	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 sand) R.C.C. top slab with Cement Concrete 1:2:4 mix (1cement : 2 sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cementcomplete as per standard design				
a	19.9.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
		TOTAL	40	Each	7997.00	319880.00
26	19.10	Extra for depth for manholes				
i	19.10.1	Size 90x80 cm				
	19.10.1.1	With well burnt bricks	36	Metre	6176.00	222336.00
27	19.8	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 sand) including testing of joints etc. complete :				
a	19.8.3	250 mm dia. R.C.C. pipe				
		TOTAL	150	Metre	385.00	57750.00
b	19.8.4	300 mm dia. R.C.C. pipe				
		TOTAL	80	Metre	480.00	38400.00
Total cost of Plumbing Work at Ashram Building						1234456
INTERNAL ELECTRIFICATION						
S. N.	SOR	DESCRIPTION OF ITEM	UNIT	QTY.	RATE	AMOUNT
1	4.1	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless				
	4.1.1	Light Point/Fan Points.				
	4.1.1.1	Short point	Each	21	451.00	9471.00
	4.1.1.2	Medium point	Each	60	830.00	49800.00
	4.1.1.3	Long point	Each	40	1300.00	52000.00
	4.1.2	Light point/fan points) looping point				
	4.1.2.1	Secondary short point	Each	2	226.00	452.00
	4.1.2.2	Secondary medium point	Each	4	415.00	1660.00
	4.1.2.3	Secondary long point	Each	3	650.00	1950.00
	4.1.3	3 Pin 6 Amp socket outlet on Separate Board				
	4.1.3.1	Short point	Each	5	574.00	2870.00
	4.1.3.2	Medium point	Each	10	990.00	9900.00
	4.1.3.3	Long point	Each	6	1515.00	9090.00
	4.1.4	Call Bell / Buzzer Points				

	4.1.4.2	Medium point	Each	1	797.00	797.00
	4.1.5	Twin Control light points				
	4.1.5.3	Long point	Each	2	1453.00	2906.00
2	4.2	Point wiring (excluding metallic switch box & sheet but including switches, sockets) for 3 pin 6 Amp. socket outlet point with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as	Each	35	265.00	9275.00
3	4.3	Wiring for circuit wiring with PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) of ISI marked suitable size etc. as required as per				
	4.3.1	2x2.5 Sq.mm.	Metre	550	139.00	76450.00
	4.3.2	4x2.5 Sq.mm.	Metre	196	224.00	43904.00
	4.3.3	6x2.5 Sq.mm.	Metre	100	288.00	28800.00
	4.3.4	8x2.5 Sq.mm.	Metre	10	353.00	3530.00
4	9.1	Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size etc. with 20/16 Amp. F.T. switch & socket/S.S. combined 20/16/6 Amp. of ISI marked and 4sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per				
	9.1.1	On separate board				
	9.1.1.1	Short point	Each	1	985.00	985.00
	9.1.1.2	Medium point	Each	2	1749.00	3498.00
	9.1.1.3	Long Point	Each	2	2612.00	5224.00
	9.1.1.4	Extra long-l	Each	1	3648.00	3648.00
5	16.1	Supply and fixing PVC conduit ISI marked FRLS along with the accessories in concealed system etc. as required				
	16.1	PVC Conduit 20 mm (HMS)	Metre	50	61.00	3050.00
	16.2	PVC Conduit 25 mm (HMS)	Metre	100	74.00	7400.00
	16.3	PVC Conduit 32 mm (HMS)	Metre	20	115.00	2300.00
6	18.2	Supplying and fixing of approved make modular type G.I. metal box 1.2mm minimum thick and depth 50mm for single row boxes and 60mm depth for two/three row boxes earth terminal stud				
	18.2.1	1/2 Module	Each	2	182.00	364.00
	18.2.2	3 Module	Each	10	216.00	2160.00
	18.2.3	4 Module	Each	2	244.00	488.00
	18.2.4	6 Module	Each	4	309.00	1236.00
	18.2.5	8 Module	Each	12	373.00	4476.00
	18.2.6	12 Module	Each	14	502.00	7028.00
7	19.1	Supplying and drawing single core PVC insulated cable FRLS with copper multi strand conductor ISI marked in existing rigid PVC casing and capping/conduit in surface or concealed as per specification				
	19.1.1	1.5 sq. mm. wire				
	19.1.1.1	1 X 1.5 sq mm	Metre	50	19.00	950.00
	19.1.1.3	3 X 1.5 sq mm	Metre	200	56.00	11200.00
	19.1.2	2.5 sq. mm. wire				
	19.1.2.1	1 X 2.5 sq mm	Metre	20	30.00	600.00
	19.1.2.2	2 X 2.5 sq mm	Metre	100	60.00	6000.00
	19.1.3	4.0 sq. mm. wire				
	19.1.3.2	2 X 4.0 sq mm	Metre	10	90.00	900.00
	19.1.3.3	3 X 4.0 sq mm	Metre	35	134.00	4690.00
8	23.1	Wiring for sub-mains with PVC insulated cable FRLS with copper multi strand conductor ISI marked in recessed/concealed rigid PVC conduit (HMS) FRLS ISI marked of suitable size (conduit included) including 2mm thick accessories, connection etc, as required as per specification. (Refer General Notes for Classification of Conduit Wiring Point				
	23.1.1	2 Wire Submain				
	23.1.1.3	6.0 sq mm cable in 25 mm conduit	Metre	20	264.00	5280.00
	23.1.4	4 Wire Submain				
	23.1.4.3	6.0 sq mm cable in 25 mm conduit	Metre	30	398.00	11940.00
	23.1.4.4	10.0 sq mm cable in 32 mm conduit	Metre	10	601.00	6010.00
9	27.3	Supplying of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase & N, 4 pole, 50 Hz, 415 Volts, (Ics=100%Icu) AC supply with thermal-magnetic release having respective breaking capacity (KA) at 415 Volts cited against their range				
	27.3	MCCB with Breaking Capacity 25 KA at 415 V				

	27.3.1	MCCB 25kA current rating - 63 to 100Amp & adjustable overload setting 80% - 100% of In, adjustable short circuit setting 6-10 In 4 Pole	Each	1	9781.00	9781.00
10	27.8	Supply of ISI marked and accepted standard of miniature circuit breaker (MCB) of 'C' series with short circuit indication, suitable for 240/415 Volts, 50 Cycle, 10 kA/15 kA Value AC supply conforming to IS : 8828 : 1996, IEC : 60898 : 2002 & 60947-2 but without enclosures :-				
	27.8.1	SINGLE POLE (SP)				
	27.8.1.2	6Amp to 32Amp 10kA rating	Each	42	263.00	11046.00
	27.8.2	DOUBLE POLE (DP)				
	27.8.2.3	For 40Amp 10kA rating	Each	1	1329.00	1329.00
	27.8.4	FOR TRIPLE POLE & NEUTRAL (FP)				
	27.8.4.2	6 Amp to 32 Amp Rating	Each	1	1965.00	1965.00
	27.8.4.4	50Amp to 63Amp 10kA rating	Each	1	2795.00	2795.00
11	27.11	Supply of approved make powder coated sheet steel encloser SPN MCB DB inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & Isolator).				
	27.11.6	12 Way double door IP 43 protection	Each	1	2738.00	2738.00
12	27.12	Supplying of approved make TPN MCB DB metal double door IP 43 protection with provision for FP MCB/ Isolator/ RCCB/ RCBO as incomer and SP MCBs as outgoing inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & Isolator).				
	27.12.2	4 way (8+12)	Each	1	4444.00	4444.00
	27.12.3	6 way (8+18)	Each	1	5526.00	5526.00
13	28.4	Fixing of MCB/MCCB/Isolator in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection				
	28.4.1	MCB / Isolator SP/DP	Each	42	22.00	924.00
	28.4.2	MCB /MCCB Isolator TP /TPN/FP	Each	3	28.00	84.00
14	28.5	Labour charges for fixing sheet steel enclosure, MCB DB surface mounting type, as per accepted practice on 25x5mm flat iron clamps				
	28.5.2	27.11.5 & 27.12.1 to 27.12.2	Each	1	545.00	545.00
	28.5.3	27.12.3 to 27.12.4 & 27.13.1	Each	1	572.00	572.00
15	28.6	Labour charges for fixing sheet steel enclosures, MCB DB surface mounting type, as per accepted practice on 25x25x 5 mm angle iron clamp, including supplying and fixing of clamp duly embedded in wall				
	28.6.1	27.11.6 & 27.11.7; 27.12.5 ; 27.13.2 to 27.13.4 & 27.14.1 to 27.14.4 ;	Each	1	414.00	414.00
16	29.3	Supply and fixing as per specification call bell/buzzer of approved make with necessary materials complete.				
	29.3.3	Ding dong bell	Each	1	185.00	185.00
17	29.25	Supply and fixing of approved make step type modular electronic fan regulator including connection etc. as required on existing board				
	29.25.2	100 Watt (2 Module)	Each	50	484.00	24200.00
18	29.27	Supply, fixing, testing & commissioning wall/floor mounted LT panel primer coated with powder coated paint & provided with required gasket for dust/vermin proof with degree of protection IP42 suitable for 415Volt 3 phase, 50 Hz, 4 wire system fabricated out of CRCA sheet upto 2 mm thick (1.6 mm for doors) duly compartmentalized for incomer, bus section, outgoing, cable alleys & CT, PT Ampere Metre, Volt Metre, selector switches, frequency Metre, phase indicating lamp, Energy Metre complete including cost of busbar supports, detachable cable gland plates, 2 earthing terminals, internal wiring & fixing of separately supplied MCBs, MCCBs, ACB, panel mounted changeover switch/SFUs, etc. as required but excluding cost of busbar strips, Ampere Metre, Volt Metre, selector switch as per approved design & specification	kg	35	397.00	13895.00
19	29.28	Supply and fixing of LT panel accessories of approved make in existing LT panel including connections etc. as required as per specification.				
	29.28.1	Digital Ampere Metre with CTs with selector switch	set	1	2125.00	2125.00
	29.28.2	Digital Volt Metre with selector switch & HRC fuse	set	1	2398.00	2398.00
	29.28.4	Copper bus bar strips with PVC sleeves	kg	4	788.00	3152.00
	29.28.6	LED lamp indicator	Each	3	255.00	765.00
20	30.1	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete of approved as required confirming				
	30.1.2	Ceiling Fan (ISI marked)-1200 mm Sweep, with minimum air delivery 210	Each	50	2292.00	114600.00

21	30.2	Supplying, erection and testing of approved make wall mounting fan oscillating type with base, blades, guard, speed regulator etc. AC 230- 250 volts with connections and including raw bolt/anchor hole fastener				
	30.2.2	400 sweep	Each	6	2810.00	16860.00
22	30.4	Supplying, erection and testing of approved make 'Fresh air fan' AC 230-250 volts with connection and including frame bolt/anchor hole fasteners etc. complete finished and as required.				
	30.4.5	300 mm sweep double ball bearing	Each	2	1973.00	3946.00
23	30.6	Supplying, erecting and testing of approved make exhaust fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/anchor hole fasteners etc. complete finished and				
	30.6.1	300mm sweep RPM 900 /1400	Each	6	2571.00	15426.00
24	31.3	Supply and fixing Led tube rod comprising of LED tube with non-integral/integral driver, upto 6500K color temp having 40000 burning hrs life with minimum @ L 70, system lumen output should be minimum with system efficacy> 100 lm/Watt. LED driver PF> 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c				
	31.3.1	Tube light LED 1 X 8/10Watt Integral i/c batten aluminium body, PC	Each	2	502.00	1004.00
	31.3.3	Tube light LED 1 X 18Watt, Integral i/c batten aluminium body, PC	Each	6	713.00	4278.00
	31.3.4	Tube light LED 1 X 20/22Watt, Integral i/c batten aluminium body, PC	Each	60	782.00	46920.00
25	31.4	Supply and fixing of recessed mounting type Led light fixture, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF> 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79- 08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.				
	31.4.1	LED luminaire 2' X 2', 36Watt, color temp 3000-6500k as required.	Each	2	3103.00	6206.00
26	31.6	Supply and fixing recessed mounting LED down lighter, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79- 08/IS16106 (2012), IEC60598, IEC61347i/c connection wire,				
	31.6.5	14/15 Watt, color temp 3000-6500k as required.	Each	2	1150.00	2300.00
27	31.7	Supply and fixing surface mounting LED down lighter, LED of 1 to 3Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79- 08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to				
	31.7.4	14/15 Watt, color temp 3000-6500k as required.	Each	2	1400.00	2800.00
28	31.14	Supplying and fixing flood light with high power LED of 3 to 6 Watt each assembled on single MCPCB and additional unique peanut lens on each LED, system lumens output with efficacy>120 lm/Watt. luminaire having color temp upto 6500K & 50000 hrs. burning life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminaire comprises of driver, PF > 0.95 & surge protection 10KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP65 protection. Submission LM 79- 08/IS16106 (2012), IEC60598, IEC61347i/c connection wire,				
	31.14.4	90/100Watt, color temp 3000-6500k as required.	Each	2	11553.00	23106.00
29	32.3	Providing and fixing circular/hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm 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/M.S. sheet box by mean of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of	Each	46	90.00	4140.00

30.	37.3	Earthing with G.I. earth plate 600mm X 600mm X 6mm thick including accessories and providing masonry encloser in cement mortar, cover plate having locking arrangement on the top and G.I. watering pipe 20mm dia 2.7 metre long etc.	Each	2	7487.00	14974.00
31.	37.5	Add extra for using salt and charcoal/coke for G.I. plate or copper plate earth electrode as required including excavation and refilling the pit in	Each	2	1655.00	3310.00
32.	37.9	Supply and laying 25mm X 5mm G.I. strip at 0.5 metre below ground level as strip earth electrode including jointing etc. as required.	Metre	10	130.00	1300.00
33	37.12	Providing and fixing 25mm X 5mm G.I. strip in 40 mm dia G.I. pipe from	Metre	15	928.00	13920.00
34	37.13	Providing and laying earth connections from earth electrode with 4.00 mm dia G.I. wire in 15mm dia G.I. Pipe from earth electrode as required.	Meter	20	222.00	4440.00
35	37.16	Providing and fixing 25mm X 5mm G.I. strip on surface or in recessed for	Meter	10	130.00	1300.00
36	37.18	Providing and fixing 4.87mm (6 SWG) dia. G.I. wire on surface or in	Meter	5	30.00	150.00
37	37.39	Supplying and drawing PVC insulated copper cable (Earth Continuity Conductor) of Green colour FR with copper multi strand conductor ISI marked in existing conduit along with other wires as required as per				
	37.39.1	4 Sq mm	Meter	15	52.00	780.00
	37.39.2	6 Sq mm	Meter	10	71.00	710.00
38	38.1	Supplying and drawing co-axial T.V. cable RG 6 Grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid	Metre	41	30.00	1230.00
39	38.2	Supplying and drawing following pair, 0.5 mm PVC insulated copper conductor unarmoured telephone cable in existing surface/concealed, steel/PVC conduit as required.				
	38.2.2	Telephone wire 0.5 mm, 2 Pair	Metre	55	36.00	1980.00
40	38.3	Supply installation, testing commissioning of 0.5 mm size Solid annealed copper, Jelly Filled Telephone Cables, Polythene Insulated, Petroleum Jelly Filled with Poly-al laminate moisture barrier, Polythene Sheathed, Unarmoured Polythene Jacketed Telephone Cables as per DOT				
	38.3.1	10 Pair	Metre	10	173.00	1730.00
41	38.4	Supply, Installation testing and commissioning of telephone Tag block Krone connector with enclosure and lock complete as mentioned below				
	38.4.1	10 Pair	Metre	1	693.00	693.00
42	38.6	Supply, fixing and testing of RJ 11 telephone jack modular (1Module)	Each	6	174.00	1044.00
43	38.8	Supply, fixing and testing of T.V. Outlet Modular (1Module)	Each	2	175.00	350.00
44	38.9	Supply, installation testing and commissioning RJ - 45 computer jack cat				
	38.9.1	RJ - 45 computer socket cat 6 with shutter modular (1Module)	Each	2	288.00	576.00
45	38.12	Supplying and drawing 4 pair shielded twisted pair (STP), 0.5 mm PVC insulated copper conductor un-armoured Cat-6 computer cable FRLS in existing surface/concealed, steel/PVC. conduit/ casing-n-capping as required.	Metre	75	104.00	7800.00
46	41.1	Supply of XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade, 1 core/2 core/3½ core/4 core ISI marked with alu. stranded				
	41.1.8	3½ core armoured				
	41.1.8.2	35 sq. mm.	Metre	50	280.00	14000.00
		Brass compression gland				
47	41.5	Supplying and fixing heavy duty cable gland for P.V.C. insulated armoured cable with brass washer, rubber ring complete erected with cable and lead connection etc. as per specification complete.				
	41.5.1.4	Gland size 32 mm for 2/3, 3½, 4 x 25 sq. mm OR 2/3, 3½ x 35 sq. mm or 2/3/3½ x 50 sq. mm.	Each	2	158.00	316.00
		Ferrules				
48	41.6	Supplying and fixing ferrules as per IS - specification suitable for following size of cable for circuit identification including connection as required complete				
	41.6.5	35 sq. mm.	Each	8	7.00	56.00
49	41.7	Supplying and fixing crimping type alum. lugs as per I.S.S. specification suitable for following size of cable with alu./copper solid/stranded conductor evenly crimped with high/pressure tool and connected to switch gear/bus/M.C.C.B./M.C.B. etc. as required complete.				

	41.7.3	35 sq. mm.	Each	8	22.00	176.00
50	41.14	Supplying and installing double wall corrugated pipes (DWC) of HDPE (IS 14930 Part II -marked) for cable laid underground with necessary material and at required depth upto 90cm. below road/ground surface, including excavation, back filling with excavated material ramming and				
	41.14.1	50.00mm outside dia.	Metre	10	133.00	1330.00
		Cable laying				
Total Cost of Internal Electrification Work						794916
EXTERNAL ELECTRIFICATION						
S. N.	SOR CODE	DESCRIPTION OF ITEM	UNIT	QTY.	RATE	AMOUNT
1	19.1	Supplying and drawing single core PVC insulated cable FRLS with copper multi strand conductor ISI marked in existing rigid PVC casing and capping/conduit in surface or concealed as per specification.				
	19.1.1	1.5 sq. mm. wire				
	19.1.1.3	3 X 1.5 sq mm	Metre	50	56.00	2800.00
2	27.2	Supplying of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase,3 pole, 50 Hz, 415 Volts, (Ics=100%Icu) AC supply with thermal - magnetic release having respective breaking capacity (KA) at 415 Volts cited against their range standard conforming to IS/IEC 60947-2				
	27.2	MCCB with Breaking Capacity 25 KA at 415 V				
	27.2.1	MCCB 25kA current rating - 63 to100Amp & adjustable overload setting 80% -100% of In, adjustable short circuit setting 6-10 In 3 Pole	Each	1	7538.00	7538.00
	27.2.6	MCCB 36kA current rating - 200Amp & adjustable overload setting 80% -100% of In, adjustable short circuit setting 6-10 In 3 Pole	Each	1	19291.00	19291.00
3	27.8	Supply of ISI marked and accepted standard of miniature circuit breaker (MCB) of 'C' series with short circuit indication, suitable for 240/415 Volts,50 Cycle, 10 kA/15 kA Value AC supply conforming to IS : 8828 : 1996, IEC : 60898 :2002 & 60947-2 but without enclosures :-				
	27.8.1	SINGLE POLE (SP)				
	27.8.1.2	6Amp to 32Amp 10kA rating	Each	3	263.00	789.00
	27.8.4	FOR TRIPLE POLE & NEUTRAL(FP)				
	27.8.4.2	6 Amp to 32 Amp Rating	Each	1	1965.00	1965.00
	27.8.4.4	50Amp to 63Amp 10kA rating	Each	1	2795.00	2795.00
4	28.4	Fixing of MCB/MCCB/Isolator in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (labour only)				
	28.4.1	MCB / Isolator SP/DP	Each	3	22.00	66.00
	28.4.2	MCB /MCCB Isolator TP /TPN/FP	Each	3	28.00	84.00

5	29.27	Supply, fixing, testing & commissioning wall/floor mounted LT panel primer coated with powder coated paint & provided with required gasket for dust/vermin proof with degree of protection IP42 suitable for 415V 3 phase, 50 Hz, 4 wire system fabricated out of CRCA sheet upto 2 mm thick (1.6 mm for doors) duly compartmentalized for incomer, bus section, outgoing, cable alleys & CT, PT Ampere Metre, Volt Metre, selector switches, frequency Metre, phase indicating lamp, Energy Metre complete including cost of busbar supports, detachable cable gland plates, 2 earthing terminals, internal wiring & fixing of separately supplied MCBs, MCCBs, ACB, panel mounted changeover switch/SFUs, etc. as required but excluding cost of busbar strips, Ampere Metre, Volt Metre, selector switch as per approved design & specification	kg	45	397.00	17865.00
6	29.28	Supply and fixing of LT panel accessories of approved make in existing LT panel including connections etc. as required as per specification.				
	29.28.1	Digital Ampere Metre with CTs with selector switch	set	1	2125.00	2125.00
	29.28.2	Digital Volt Metre with selector switch & HRC fuse	set	1	2398.00	2398.00
	29.28.4	Copper bus bar strips with PVC sleeves	kg	6	788.00	4728.00
	29.28.6	LED lamp indicator	Each	3	255.00	765.00
7	31.12	Supply and fixing street light with high power LED of 3 to 6 W each on existing bracket assembled on single MCPCB, system lumens output with efficacy > 120 lm/W. luminaire having color temp upto 6500K & 50000 burning hrs. life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminaire comprises of driver, PF > 0.95 & surge protection 10KV. Housing made of pressure die cast aluminium with heat resistant flat glass/Lens type, IP65 protection. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347/c connection wire, testing etc. to complete the job.				
	31.12.2	24Watt to 25Watt, color temp 3000-6500k as required.	Each	3	2737.00	8211.00
8.	37.3	Earthing with G.I. earth plate 600mm X 600mm X 6mm thick including accessories and providing masonry encloser in cement mortar, cover plate having locking arrangement on the top and G.I. watering pipe 20mm dia 2.7 metre long etc. (but without charcoal or coke and salt) complete as required	Each	3	7487.00	22461.00
9.	37.4	Earthing with copper earth plate 600mm X 600mm X 3mm thick including accessories and providing masonry encloser in cement mortar, cover plate having locking arrangement on the top and G.I. watering pipe 20mm dia 2.7 metre long etc. (but without charcoal or coke and salt) complete as required	Each	2	16341.00	32682.00
10.	37.5	Add extra for using salt and charcoal/coke for G.I. plate or copper plate earth electrode as required including excavation and refilling the pit in all type of soil, murrum	Each	5	2783.00	13915.00
11.	37.9	Supply and laying 25mm X 5mm G.I. strip at 0.5 metre below ground level as strip earth electrode including jointing etc. as required.	Metre	15	130.00	1950.00

12	37.12	Providing and fixing 25mm X 5mm G.I. strip in 40 mm dia G.I. pipe from earth electrode as required	Metre	50	928.00	46400.00
13	37.13	Providing and laying earth connections from earth electrode with 4.00 mm dia G.I. wire in 15mm dia G.I. Pipe from earth electrode as required.	Meter	30	222.00	6660.00
14	37.18	Providing and fixing 4.87mm (6 SWG) dia. G.I. wire on surface or in recessed for loop earthing as required.	Metre	10	30.00	300.00
15	41.1	Supply of XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade, 1 core/2 core/3½ core/4 core ISI marked with alu. stranded /solid conductor				
	41.1.8	3½ core armoured				
	41.1.8.5	95 sq. mm.	Metre	25	625.00	15625.00
	41.1.10	4 core armoured				
	41.1.10.1	6 sq. mm.	Metre	80	151.00	12080.00
		Brass compression gland				
16	41.5	Supplying and fixing heavy duty cable gland for P.V.C. insulated armoured cable with brass washer, rubber ring complete erected with cable and lead connection etc. as per specification complete.				
	41.5.1.1	Gland size 22mm suitable for cable 2,3,3½ & 4 x upto 6 sq. mm	Each	10	79.00	790.00
	41.5.1.6	Gland size 45 mm 3/3½ x 120 sq. mm, 3½ x 95 sq. mm, 3 x 150 sq. mm.	Each	6	260.00	1560.00
		Ferrules				
17	41.6	Supplying and fixing ferrules as per IS - specification suitable for following size of cable for circuit identification including connection as required complete				
	41.6.1	2.5-6.00 sq. mm	Each	40	3.00	120.00
	41.6.8	95 sq. mm.	Each	24	18.00	432.00
18	41.7	Supplying and fixing crimping type alum. lugs as per I.S.S. specification suitable for following size of cable with alu./copper solid/stranded conductor evenly crimped with high/pressure tool and connected to switch gear/bus/M.C.C.B./M.C.B. etc. as required complete.				
	41.7.1	6mm to 16 sq. mm	Each	40	8.00	320.00
	41.7.6	95 sq. mm.	Each	24	58.00	1392.00
19	41.14	Supplying and installing double wall corrugated pipes (DWC) of HDPE (IS 14930 Part II -marked) for cable laid underground with necessary material and at required depth upto 90cm. below road/ground surface, including excavation, back filling with excavated material, ramming and making the surface good.				
	41.14.4	110.00mm outside dia.	Metre	10	252.00	2520.00
		Cable laying				
20.	41.15	Laying of one number armoured / unarmoured power cable 1.1KV grade of size not exceeding 25 sq. mm direct in ground including excavation in all soil/ murrum /soft rock, sand cushioning, protective covering and refilling the pit etc. as required.	Metre	60	230.00	13800.00

21.	41.16	Laying of one number armoured / unarmoured power cable 1.1.KV grade of size exceeding 25sq. mm but not exceeding 120 sq. mm direct in ground including excavation in all soil/ murrum /soft rock, sand cushioning, protective covering and refilling the pit etc. as required.	Metre	25	246.00	6150.00
22.	41.22	Laying of one number armoured / unarmoured power cable 1.1 KV grade of size exceeding 25 sq. mm but not exceeding 120 sq. mm. in the existing RCC Hume /Stone ware/G.I. Pipe/surface in existing trench as required.	Metre	35	35.00	1225.00
23	42.2	Supply of support for overhead line RS joist of I.S. standard including drilling of required hole etc. complete as required.				
	42.2.6	H - Beam 152x152mm, Std weight 37.1 Kg/Mtr	Metre	24	2843.00	68232.00
24	42.3	Supply of steel tubular pole swaged type as per IS:2713-1980 complete with base plate and top Canopy				
	42.3.3	410 SP-8 - 7.50 metre.	Each	5	11025.00	55125.00
25	42.6	Supplying and drawing of stranded aluminium conductor steel reinforced (ACSR) conforming to IS:398- 1976 of approved make, stringing, making off complete with binding at existing insulator, jointing, jumpering, tearing off, connecting etc. as required and clearing of obstacles (if any) etc.				
	42.6.4	ACSR 0.075 sq inch (80 sq.mm Al. EQ.)- (Raccoon)	Km	0.25	88530.00	22133.00
26	42.13	Supplying and erection of water tight terminal box made of 16 SWG M.S. Sheet (1.6mm thick) i/c rubber gasket of required size suitable for kit kat/MCB/switch including 2 nos. pole clamp of M.S. flat iron size 32x3mm, nut and bolts, 4 Pole epoxy connector nut & bolt type, 30Amp, 500Volt. The box shall be powder coated excluding the cost of the kit kat/MCB/Switch complete as per specification.				
	42.13.2	30x20x10 Cms	Each	3	1158.00	3474.00
27.	42.58	Supplying and erection of single piece nonlinear resistor type lighting arrestor (set of 3 nos) for 3 wire, 11KV overhead lines/sub- station with rated voltage of 9KV (rms) with a nominal discharge current rating of 5 KA and complete with galvanized clamping arrangement, G.I. bolts, nuts, washer etc. as required.	Set	1	3832.00	3832.00
28.	42.62	Supplying installing, testing & commissioning of outdoor H.T., AB switch assembly set gang operated with brass contact parts, including required GI pipe operating rod, handle & locking arrangement on On Off position conforming to IS complete with required material and installing on existing DP structure to complete the job as required as per specification.(Set of 3 nos.)				
	42.62.1	11 KV, 400Amp	Set	1	8989.00	8989.00
29.	42.63	Supplying installing, testing & commissioning D.O. fuse assembly with brass part contact for 33 or 11/0.4 KV DP Structure set of 3 Nos. with fuse barrel i/c required fuse element & other materials as per specification on existing D.P. structure as required.				
	42.63.1	11 KV, 400Amp	Set	1	4721.00	4721.00

30.	42.68	Supply, laying and fixing of G.I. earth coil of 4mm dia G.I. wire having 120 turns of nearly 50mm dia. and 3 mt. long tail in existing pit duly earthed with pole etc complete as required as per specification.	Each	4	293.00	1172.00
31.	42.70	Supplying, installing, testing and commissioning of 11/0.4 KV 3 Phase 50 cycle oil immersed, naturally cooled, outdoor type transformer connected delta on H.T. side and star on L.T. side, dehydrating silica gel breather on eye level, rating and diagram plate, two earthing terminal, lifting lugs, oil level gauge, drain valve with plug, temperature not exceeding 50°C on load, oil filling hole with plug, four unidirectional roller, arcing horns, explosion vent, terminal arrangement bushing on H.V. side and cable box on LV side, first filling of oil upto desired level and transformer installing on existing structure with all required materials arrangement as required ISI marked & as per IS specification, hand operated off load tap changer switch above 100 KVA, oil conservator with drain valve, plug 63 KVA and above. Energy efficiency level -3				
	42.70.3.2	63 KVA	Each	1	249744.00	249744.00
Total Cost of External Electrification Work						669224

GUARD ROOM						
S.NO	SOR	PARTICULARS	QTY	UNIT	RATE In RS.	AMOUNT In RS.
1	2.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. in all kinds of soil.				
		TOTAL	0.75	100/Sq	803	602.00
2	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil				
		All kinds of soil				
		EXCAVATION FOR FOOTING				
		TOTAL	46.08	Cum	147	6774.00
3	2.25	Extra for every additional lift of 1.5 m or part thereof in excavation. (No extra lift is payable if work is done by mechanical means)				
	2.25.1	All kinds of soil.				
		EXCAVATION FOR FOOTING				
		TOTAL	11.52	Cum	30	346.00
4	2.24	Filling available excavated earth (excluding hard rock/Ordinary 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.				
		TOTAL	39.960	Cum	95	3796.00
5	2.32	Preconstruction antitermite treatment to the building under construction by providing: Stage 1: Treating the bottom and the sides (upto 30 cm height of the excavated trench @ 5 liters per sqm of the surface area. Stage 2: After masonry/RCC work, the backfill in the immediate contact with the foundation structure treatment @ 7.5 liters per sqm. Of the vertical surface of the substructure for each side. Stage 3: surface treatment by spreading emulsion over the plinth area before laying the base concrete under floors @ 5.0 litres/Sqm. Stage 4: Pumping the emulsion in plinth masonry on filling side at floor junction @ 7.5 litres/Sqm. Stage 5: Pumping the emulsion from outer side of the plinth below ground around the masonry @ 5.0 litres/Sqm as per I.S. 8944 Emulsion. (1Chlorpyrifos: 19 water) with five years service guarantee (Measurements to be taken for plinth area) Note – Treatment should start when foundation trenches and pits are ready to take bed concrete				
		TOTAL	36.000	Sqm	136	4896.00
6	2.9	Excavating trenches of required width for pipes, cables, etc. Including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : (No extra lift is payable if work is done by mechanical means) in				
		All kinds of soil				
	2.9.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	20.000			
		TOTAL	20.000	Meter	156	3120.00
		PLINTH FILLING				
7	2.27	Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete.				
	2.27.1	With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:- maximum thickness of this layer to be provided shall be 30cm)				
		TOTAL	28.800	Cum	393	11318.00
		PCC Work				
8	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
	4.1.1.4	M-10Nominal (Mix-1 Cement : 3 sand : 6 graded stone aggregate)				
		TOTAL	6.734	Cum	3890.00	26195.00
		RCC Work Upto Plinth level				

9	5.1	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	5.1.1	M 20 –Grade Concrete				
		TOTAL	11.08	Cum	6153.00	68175.00
		RCC Work Above Plinth Level				
10	5.2	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and upto floor two level excluding cost of centering, shuttering, finishing and reinforcement:				
	5.2.1	M-20- Grade Concrete				
		TOTAL	2.208	Cum	6231.00	13758.00
11	5.3	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.				
	5.3.1	M-20- Grade Concrete				
		TOTAL	11.126	Cum	6541.00	72775.00
		Reinforcement Steel				
12	5.16	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3.Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")				
	5.16.6	Thermo-Mechanically Treated bars.FE 500 or more conforming to IS 1786				
		All Work upto Plinth Level	11.08			
		All Work above Plinth Level upto two floor Level- Columns	2.21			
		All Work above Plinth Level upto two floor Level- Beams & Slab	11.13			
		Steel @93.50 kg per cum of Concrete	24.41			
		TOTAL	2282.34	Kg	80.00	182587.00
		FORM WORK				
13	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
a	5.9.1	Foundations, footings, bases of columns, etc. for concrete upto plinth level				
		TOTAL	45.00	Sqm	190.60	8577.00
b	5.9.2	Walls (any thickness) including attached pilasters butteresses, plinth beams and string courses etc.				
	5.9.2.1	Upto plinth level.				
		TOTAL	36.00	Sqm	219.00	7884.00
c	5.9.5	Lintels, beams, girders, bressumers and cantilevers				
		TOTAL	69	Sqm	356.00	24564.00
d	5.9.3	Suspended floors, roofs, landings, balconies and access platform.				
		TOTAL	50.222	Sqm	439.60	22078.00
e	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts.				
		TOTAL	31.600	Sqm	471.20	14890.00
		BRICK WORK				
14	6.5	Brick work with well burnt open bhatta, bricks, crushing strength not less than 25kg /cm2 and water absorption not more than 20% in foundation and plinth i/c curing etc complete.				
	6.5.2	Cement Mortar 1:6 (1 cement: 6 sand).				
		TOTAL	4.734	Cum	4155.00	19670.00
15	6.7	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :				

	6.7.3	Having 50 kg / cm ² average compressive strength.				
	6.7.3.2	Cement mortar 1:6 (1 cement : 6 sand)				
		TOTAL	27.844	Cum	4936.00	137438.00
16	6.15	Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS: 12894, in super structure above plinth and upto floor two level.				
	6.15.3	Having 50 kg/cm ² average compressive strength.				
	6.15.3.2	Cement mortar 1:4 (1 cement : 4 sand)				
		TOTAL	34.590	Sqm	459.00	15877.00
17	6.17	Extra for providing and placing in position 2 Nos. 8mm dia. M.S. bars at every third course of in half brick masonry.				
		TOTAL	34.59	Sqm	127.00	4393.00
		Plaster Work				
		Ceiling plaster				
18	13.8	6 mm cement plaster of mix : 1:3 (1 cement : 3 sand)				
		TOTAL	86.395	Sqm	144.00	12441.00
		Internal plaster				
19	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix				
	13.2.2	1:6 (1 cement : 6 sand)				
		TOTAL	177.765	Sqm	168.00	29865.00
20	13.6	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 sand) finished with a top layer 6mm thick cement plaster 1:4 (1 cement : 4 sand).				
		TOTAL	196.58	Sqm	220.00	43248.00
		Painting Work				
21	13.54	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
	13.54.3	Two or more coats applied on walls @ 1.25 ltr/10 sqm. Over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm.				
		TOTAL	460.735	Sqm	81.00	37320.00
22	13.41	Providing and applying white cement based putty of average thickness 1 mm, of approved brand over the plastered wall surface to prepare the surface even and smooth i/c all cost of material, labour and scaffold etc in all position complete. Note : Putty shall be applied only on the internal walls, for application on the exterior walls prior permission of APD/Chief Engineer will be required.				
		TOTAL	264.160	Sqm	74.00	19548.00
		Wooden Work				
23	9.19	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 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
	9.19.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.				
		TOTAL	5.880	Sqm	1870.00	10996.00
24	9.175	Providing and fixing PVC Door Frame of size 50x47mm with a wall thickness of 5 mm (±0.2 mm) made out of single piece extruded PVC profile, with mitred cut joints and joint with 2nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35x15mm and self driven self tapping screws, the vertical door profiles to be reinforced with 40x20mm M.S. rectangular tube of 0.8 mm ,including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8x100mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.				
		TOTAL	10.300	metre	517.00	5325.00

25	9.176	35 mm thick factory made Solid panel PVC Door shutter made out of single piece extruded solid PVC profiles, 5mm (±0.2mm) thick, having styles and rails (except lock rail) of size 95 mmx 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm x 20 mm x 1 mm, joints of styles and rails to be mitered cut and joint with the help of PVC solvent cement, self driven self tapping screws and M.S. rectangular pipes bracket of size 190 mm x100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5mm thick solid PVC Lock rail of size 115 mm x 35 mm x 35 mm, out of which 95 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles and rails with the help of solvent and self driven self tapping screws of 125				
	9.176.1	Non decorative finish (matt finish).				
		TOTAL	3.150	sqm	2037.00	6417.00
26	13.54	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
	13.54.1	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/ 10 sqm of approved brand or manufacture				
		TOTAL	11.760	sqm	69.00	811.00
27	9.69	Providing and fixing ISI marked stainless steel handles with necessary screws etc. complete :				
	9.69.1	125 mm				
		TOTAL	6.000	Each	60.00	360.00
28	9.66	Providing and fixing ISI marked stainless steel tower bolt black finish, (Barrel type) with necessary screws etc. complete :				
	9.66.1	250x10 mm				
		TOTAL	3.000	Each	148.00	444.00
	9.66.2	200x10 mm				
		TOTAL	2.000	Each	93.00	186.00
29	9.93	Providing and fixing Chromium plated brass hanging type floor door stopper with necessary screws, etc. complete.				
		TOTAL	3.000	Each	92.00	276.00
30	9.65	Providing and fixing ISI marked stainless steel sliding door bolts with nuts and screws etc. complete:				
a	9.65.1	300x16 mm				
		TOTAL	2.000	Each	389.00	778.00
b	9.65.2	250x16 mm				
		TOTAL	4.000	Each	326.00	1304.00
		Steel Work				
31	10.12	Providing and fixing pressed steel door frames made of 1.6 mm thick steel profile conforming to IS: 4351 manufactured from commercial mild steel sheet including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.60 mm pressed mild steel welded or rigidly fixed together by mechanical means, including 2.5mm thick M.S. pressed butt hinges, with mortar guards, lock strike-plate and shock absorbers as specified filling the frame with Cement Concrete 1:3:6 at site before fixing (cost of concrete to be paid separately) fixing with adjustable lugs (200 mm long & 1.0 mm thick) and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:				
	10.12.2	Profile C of 1.60mm thick single rebate of size 100mmx50mm				
	10.12.2.1	Fixing with adjustable lugs with split end tail to each jamb.				
		TOTAL	32.000	M	431.00	13792.00
32	9.43	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
	9.43.2	Fixed to openings /wooden frames with rawl plugs screws etc.				
		TOTAL	151.200	Kg	128.00	19354.00

33	13.54	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
	13.54.2	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand or manufacture.				
		TOTAL	5.04	SQM	71.00	358.00
		Aluminium work				
34	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
a	21.1.1	For fixed portion.				
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)				
		TOTAL	19.656	Kg	416.00	8177.00
b	21.1.2	For shutters of doors, windows and ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).				
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)				
		For Window W1	4.992			
		For Window W2	4.368			
		For Window W3	2.340			
		For Ventilation V1	1.404			
		TOTAL	13.104	Kg	484.00	6342.00
35	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item) :				
a	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10 kg/sqm)				
		TOTAL	5.040	Sqm	774.00	3901.00
36	21.4	Add extra for providing and fixing froasted glass instead of float glass				
	21.4.1	With glass panes of 4.0 mm thickness (weight not less than 10 kg/sqm)				
		TOTAL	5.040	Sqm	259.00	1305.00
37	9.124	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.				
	9.124.2	With 12 mm mild steel U beading.				
		TOTAL	5.040	Sqm	1370.00	6905.00
		Flooring Work				
38	11.36	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 sand) 25 mm thick.(Area of slab to be over 0.25 sqm)				
		TOTAL	25.455	Sqm	1174.00	29884.00
39	11.38	Kota stone slabs in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.				

	11.38.2	20 mm thick				
		TOTAL	10.02	Sqm	1177.00	11794.00
40	11.47	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.				
		TOTAL	7.200	Meter	139.00	1001.00
41	11.48	Extra for Kota stone/ sand stone in treads of steps and risers using single length upto 1.05 metre.				
		TOTAL	3.420	Sqm	10.00	34.00
42	11.22	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish wherever required etc. complete at all levels. Samples approved by Engineer-in- Charge.				
	11.22.2	Granite fine grained dark crystal of other colours and various patterns				
		TOTAL	4.313	Sqm	2356.00	10161.00
43	11.40	Providing edge moulding to 18mm thick marble stone counters, Vanities, window sills etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	11.40.2	Granite Work				
		TOTAL	24.700	RM	269.00	6644.00
44	11.49	Providing and laying Ceramic glazed floor tiles 300x300 mm or more (having thickness 6 to 7mm) of 1st quality conforming to IS : 15622 of approved make in any colours and shade laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 sand) including pointing the joints with white cement and matching pigment etc., complete.				
		TOTAL	2.640	sqm	670.00	1769.00
45	11.50	Providing and fixing Ceramic glazed wall tiles 300x450 mm or more (having thickness 6 to 7 mm) of 1st quality conforming to IS: 15622 of approved make in all Colours& shades, except burgundy, bottle green, black laid on 12mm thick bed of Cement Mortar 1:3 (1 Cement: 3 sand)prepad same day when mortar is still green jointed with grey cement slurry @3.3 kg per sqm including pointing the joints with white cement and matching pigments etc., complete.				
		TOTAL	23.790	sqm	776.00	18461.00
		WaterProofing				
46	22.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.				
		Toilet- Male & Female on GF & FF	6.480			
		TOTAL	6.480	Sqm	207.00	1341.00
47	2.26	Supplying and filling in plinth with crusher stone dust / coarse sand under floors including, watering, ramming and compacting in layers not exceeding 20cm in depth and dressing complete Note: - Maximum thickness of this layer shall be 20 cm.				
		TOTAL	0.720	cum	672.00	484.00

48	22.6	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying : a) After surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. b) Laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. c) Third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around.				
		For Terrace Floor				
		TOTAL	36.000	Sqm	338.00	12168.00
49	22.14	Grading roof for receiving water proofing treatment with				
	22.14.1	Cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size)				
		TOTAL	2.700	Cum	6569.00	17736.00
		Sanitary & Water Supply				
50	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings. This included jointing of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer-in- Charge. External Work				
	18.7.6	50 mm nominal outer dia .Pipes.				
		TOTAL	10	M	498.00	4980.00
51	18.6	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge.				
a	18.6.1	Internal work - Exposed on wall				
i	18.6.1.5	40 mm nominal outer dia .Pipes.				
		TOTAL	12	M	354.00	4248.00
ii	18.6.1.6	50 mm nominal outer dia .Pipes.				
		TOTAL	6	M	528.00	3168.00
b	18.6.2	Concealed work including cutting chases and making good the walls etc.				
i	18.6.2.1	15 mm nominal outer dia .Pipes.				
		TOTAL	5	M	207.00	1035.00
ii	18.6.2.2	25 mm nominal outer dia .Pipes.				
		TOTAL	20	M	288.00	5760.00
iii	18.6.2.3	32 mm nominal outer dia .Pipes.				
		TOTAL	8	M	360.00	2880.00
52	18.13	Providing and fixing CPVC gate valve with knob of approved quality.				
a	18.13.1	25 mm nominal bore.				
		TOTAL	1	Each	428.00	428.00
b	18.13.2	32 mm nominal bore.				
		TOTAL	1	Each	500.00	500.00
c	18.13.3	40 mm nominal bore.				
		TOTAL	1	Each	584.00	584.00
d	18.13.4	50 mm nominal bore.				
		TOTAL	1	Each	749.00	749.00
53	17.58	Providing and fixing unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type B including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Single socketed pipes for working pressure of 4 kg/sqcm. (minimum wall thickness 3.2mm)				
a	17.58.1	75 mm diameter				
		TOTAL	12	RM	136.00	1632.00
b	17.58.2	110 mm diameter				
		TOTAL	20	RM	238.00	4760.00

54	17.59	Providing and fixing unplasticised PVC moulded fittings/ accessories for unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
a	17.59.	Coupler				
	17.59.1.1	75 mm				
		TOTAL	4	Each	117.00	468.00
	17.59.1.2	110 mm				
		TOTAL	4	Each	154.00	616.00
b	17.59.	Single tee with door				
	17.59.3.1	75x75x75 mm				
		TOTAL	2	Each	219.00	438.00
	17.59.3.2	110x110x110 mm				
		TOTAL	2	Each	346.00	692.00
c	17.59.4	Single tee without door				
	17.59.4.1	75x75x75 mm				
		TOTAL	2	Each	201.00	402.00
	17.59.4.2	110x110x110 mm				
		TOTAL	2	Each	266.00	532.00
d	17.59.5	Bend 87.50				
	17.59.5.1	75 mm bend				
		TOTAL	5	Each	117.00	585.00
	17.59.5.2	110 mm bend				
		TOTAL	5	Each	172.00	860.00
55	Rajastha n PWD - BSR-	P&F rigid PVC pipe fittings (IS: 4985 mark) of approved quality /make including joining the pipe with solvent cement rubber ring and lubricant:				
a	3.17.5	Door 'Y'				
	i	75 mm				
		TOTAL	2	Each	153.00	306.00
	ii	110 mm				
		TOTAL	2	Each	188.10	376.00
b	3.17.7	Double Door 'Y'				
	i	75 mm				
		TOTAL	2	Each	187.20	374.00
	ii	110 mm				
		TOTAL	2	Each	319.50	639.00
c	3.17.10	Door Bend (Top Side)				
	i	75 mm				
		TOTAL	2	Each	108.00	216.00
	ii	110 mm				
		TOTAL	2	Each	126.00	252.00
d	3.17.12	Vent Cowel				
	i	75 mm				
		TOTAL	3	Each	35.10	105.00
	ii	110 mm				
		TOTAL	3	Each	45.90	138.00
56	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, UPVC 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 :				
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.				
		WC				
		TOTAL	1	Each	2995.00	2995.00
57	17.11	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 :				
a	17.11.3	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps.				
		TOTAL	1	Each	1938.00	1938.00
58	17.14	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :				
	17.14.2	Kitchen sink without drain board				
	17.14.2.3	470x420 mm bowl depth 178 mm.				
		For Kitchen	1			
		TOTAL	1	Each	3422.00	3422.00

59	17.67	Providing and fixing bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.				
		For Ground Floor Toilet				
		TOTAL	0.54	Sqm	2440.00	1318.00
60	17.64	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.64.2	Flexible pipe (only in residential & complexes)				
	17.64.2.1	32mm Dia.				
		For Ground Floor				
		TOTAL	2	Each	87.00	174.00
61	17.61	Providing and fixing UPVC trap of self cleaning design complete. Including cost of cutting and making good the wall and floors. 100 mm inlet and 75 mm outlet				
		For Ground Floor				
		TOTAL	4	Each	517.00	2068.00
62	18.37	Providing and fixing C.P. brass pillar cock approved quality and make conforming to IS: specification. 15 mm nominal bore 125 mm long foam flow.				
		For Labs				
		TOTAL	2	Each	1188.00	2376.00
63	18.35	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15 mm nominal bore				
		For Basin				
		For all Toilet				
		TOTAL	2	Each	714.00	1428.00
64	18.17	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	18.17.1	30 cm length				
	18.17.1.1	15 mm nominal bore				
		TOTAL	4	Each	88.00	352.00
65	18.31	Providing and fixing C.P. brass bib cock of approved quality conforming to IS: 8931, 15 mm nominal bore.				
		For all Toilets,Drinking Water area				
		TOTAL	5	Each	840.00	4200.00
66	18.34	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS: 8931. 15 mm nominal bore.				
		For Toilets				
		TOTAL	2	Each	1155.00	2310.00
67	18.14	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
	18.14.3	25 mm nominal bore				
		For water tanks				
		TOTAL	1	Each	499.00	499.00
68	18.28	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				
		For water tanks				
		TOTAL	1000	per	7.00	7000.00
		Sewage line work				
69	19.9	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 sand) R.C.C. top slab with Cement Concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design				

a	19.9.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg)				
	19.9.1.1	With well burnt bricks				
		TOTAL	2	Each	7997.00	15994.00
b	19.10	Extra for depth for manholes				
i	19.10.1	Size 90x80 cm				
	19.10.1.1	With well burnt bricks	2	Metre	6176.00	12352.00
70	19.8	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 sand) including testing of joints etc. complete :				
a	19.8.3	250 mm dia. R.C.C. pipe				
		Sewage line				
		TOTAL	10	Metre	385.00	3850.00
b	19.8.4	300 mm dia. R.C.C. pipe				
		Sewage line				
		TOTAL	10	Metre	480.00	4800.00
Total cost of Civil Work of Chaukidar Quarter						1095442
GUARD ROOM ELECTRICAL WORK						
S. N.	SOR CODE	DESCRIPTION OF ITEM	UNIT	QTY.	RATE	AMOUNT
1	4.1	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints etc. as required as per specification for :- (Using Modular Accessories)				
	4.1.1	Light Point/Fan Points.				
	4.1.1.1	Short point	Each	2	451.00	902.00
	4.1.1.2	Medium point	Each	5	830.00	4150.00
	4.1.1.3	Long point	Each	3	1300.00	3900.00
	4.1.3	3 Pin 6 Amp socket outlet on Separate Board				
	4.1.3.2	Medium point	Each	1	990.00	990.00
	4.1.3.3	Long point	Each	1	1515.00	1515.00
2	4.2	Point wiring (excluding metallic switch box & sheet but including switches, sockets) for 3 pin 6 Amp. socket outlet point with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board.	Each	2	265.00	530.00
3	4.3	Wiring for circuit wiring with PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) of ISI marked suitable size etc. as required as per specification				
	4.3.1	2x2.5 Sq.mm.	Metre	25	139.00	3475.00
	4.3.2	4x2.5 Sq.mm.	Metre	10	224.00	2240.00
	4.3.3	6x2.5 Sq.mm.	Metre	2	288.00	576.00
4	9.1	Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size etc. with 20/16 Amp. F.T. switch & socket/S.S. combined 20/16/6 Amp. of ISI marked and 4sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per specification for :-				
	9.1.1	On separate board				
	9.1.1.3	Long Point	Each	1	2612.00	2612.00
5	16.1	Supply and fixing PVC conduit ISI marked FRLS along with the accessories in concealed system etc. as required				
	16.1	PVC Conduit 20 mm (HMS)	Metre	20	61.00	1220.00
	16.2	PVC Conduit 25 mm (HMS)	Metre	20	74.00	1480.00
6	18.2	Supplying and fixing of approved make modular type G.I. metal box 1.2mm minimum thick and depth 50mm for single row boxes and 60mm depth for two/three row boxes earth terminal stud with nut and washer with modular base and cover plate including fixing in concealed etc. as required for:-				
	18.2.2	3 Module	Each	1	216.00	216.00
	18.2.4	6 Module	Each	1	309.00	309.00
	18.2.5	8 Module	Each	1	373.00	373.00
	18.2.6	12 Module	Each	1	502.00	502.00

7	19.1	Supplying and drawing single core PVC insulated cable FRLS with copper multi strand conductor ISI marked in existing rigid PVC casing and capping/conduit in surface or concealed as per specification.				
	19.1.1	1.5 sq. mm. wire				
	19.1.1.3	3 X 1.5 sq mm	Metre	10	56.00	560.00
	19.1.2	2.5 sq. mm. wire				
	19.1.2.1	1 X 2.5 sq mm	Metre	5	30.00	150.00
	19.1.2.2	2 X 2.5 sq mm	Metre	10	60.00	600.00
	19.1.3	4.0 sq. mm. wire				
	19.1.3.2	2 X 4.0 sq mm	Metre	5	90.00	450.00
8	23.1	Wiring for sub-mains with PVC insulated cable FRLS with copper multi strand conductor ISI marked in recessed/concealed rigid PVC conduit (HMS) FRLS ISI marked of suitable size (conduit included) including 2mm thick accessories, connection etc, as required as per specification. (Refer General Notes for Classification of Conduit Wiring Point No.11)				
	23.1.1	2 Wire Submain				
	23.1.1.2	4.0 sq mm cable in 25 mm conduit	Metre	50	219.00	10950.00
9	27.8	Supply of ISI marked and accepted standard of miniature circuit breaker (MCB) of 'C' series with short circuit indication, suitable for 240/415 Volts, 50 Cycle, 10 kA/15 kA Value AC supply conforming to IS : 8828 : 1996, IEC : 60898 :2002 & 60947-2 but without enclosures :-				
	27.8.1	SINGLE POLE (SP)				
	27.8.1.2	6Amp to 32Amp 10kA rating	Each	6	263.00	1578.00
	27.8.2	DOUBLE POLE (DP)				
	27.8.2.3	For 40Amp 10kA rating	Each	1	1329.00	1329.00
10	27.11	Supply of approved make powder coated sheet steel enclosure SPN MCB DB inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator)-				
	27.11.4	6 Way double door IP 43 protection	Each	1	1846.00	1846.00
11	28.4	Fixing of MCB/MCCB/Isolator in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (labour only)				
	28.4.1	MCB / Isolator SP/DP	Each	6	22.00	132.00
12	28.5	Labour charges for fixing sheet steel enclosure, MCB DB surface mounting type, as per accepted practice on 25x5mm flat iron clamps duly embedded in wall, cable connection etc. complete.				
	28.5.2	27.11.5 & 27.12.1 to 27.12.2	Each	1	545.00	545.00
13	29.25	Supply and fixing of approved make step type modular electronic fan regulator including connection etc. as required on existing board				
	29.25.2	100 Watt (2 Module)	Each	1	484.00	484.00
14	30.1	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete of approved as required confirming to IS :374/2019 with upto date amendments.				
	30.1.2	Ceiling Fan (ISI marked)-1200 mm Sweep, with minimum air delivery 210 m ³ /min and service value ≥ 4.00 as per BEE..	Each	1	2292.00	2292.00
15	30.2	Supplying, erection and testing of approved make wall mounting fan oscillating type with base, blades, guard, speed regulator etc. AC 230-250 volts with connections and including raw bolt/anchor hole fastener etc. complete finished and as required.				
	30.2.2	400 sweep	Each	1	2810.00	2810.00
16	30.6	Supplying, erecting and testing of approved make exhaust fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/anchor hole fasteners etc. complete finished and as required.				
	30.6.1	300mm sweep RPM 900 /1400	Each	1	2571.00	2571.00
17	31.3	Supply and fixing Led tube rod comprising of LED tube with non- integral/integral driver, upto 6500K color temp having 40000 burning hrs life with minimum @ L 70, system lumen output should be minimum with system efficacy> 100 lm/Watt. LED driver PF> 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347/c connection wire, testing etc. to complete the job.				
	31.3.1	Tube light LED 1 X 8/10Watt Integral i/c batten aluminium body, PC diffuser.	Each	1	502.00	502.00
	31.3.4	Tube light LED 1 X 20/22Watt, Integral i/c batten aluminium body, PC diffuser.	Each	4	782.00	3128.00

18	32.3	Providing and fixing circular/hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm 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/M.S. sheet box by mean of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of 12mm dia M.S. bar bent to shape as per standard drawing.	Each	1	90.00	90.00
19	37.39	Supplying and drawing PVC insulated copper cable (Earth Continuity Conductor) of Green colour FR with copper multi strand conductor ISI marked in existing conduit along with other wires as required as per specification :				
	37.39.1	4 Sq mm	Meter	25	52.00	1300.00
20	38.1	Supplying and drawing co-axial T.V. cable RG 6 Grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tined copper braid and protected with PVC sheathed in existing	Metre	20	30.00	600.00
21	38.2	Supplying and drawing following pair, 0.5 mm PVC insulated copper conductor unarmoured telephone cable in existing surface/concealed, steel/PVC conduit as required.				
	38.2.2	Telephone wire 0.5 mm, 2 Pair	Metre	15	36.00	540.00
22	38.6	Supply, fixing and testing of RJ 11 telephone jack modular (1Module)	Each	1	174.00	174.00
23	38.8	Supply, fixing and testing of T.V. Outlet Modular (1Module)	Each	1	175.00	175.00
24	38.9	Supply, installation testing and commissioning RJ - 45 computer jack cat 6 with shutter modular (1Module)				
	38.9.1	RJ - 45 computer socket cat 6 with shutter modular (1Module)	Each	1	288.00	288.00
25	38.12	Supplying and drawing 4 pair shielded twisted pair (STP), 0.5 mm PVC insulated copper conductor un-armoured Cat-6 computer cable FRLS in existing surface/concealed, steel/PVC. conduit/ casing-n-capping as required.	Metre	10	104.00	1040.00
26	41.12	Supplying & installing G.I. pipe for protection of underground cable fixed on wall/support/in trench/fixed between two rigid existing support of wall/beam for erection of ceiling Fan/down rod for stiff pendent for light luminaries /fan/protective for earthing, lightening conductor down strip/overhead service line/for submersible cable or centrifugal pump for water supply with necessary iron clamp coupler, bend, tee, elbow, nuts and bolts etc. complete in an approved manner as required to complete excluding cost of excavation/dismantling & other finished masonry Item complete. For 'B' class pipe ISI marked (IS-1161- 68)				
	41.12.1.3	25.00mm.	Metre	25	291.00	7275.00
Total Cost of Internal Electrification Work						66399
TUBE WELL						
S. No.	SOR Item	Particulars of Items	Quantity	Unit	Rate in Rs.	Amount in Rs.
		Tube well				
1	16.1	Boring/drilling bore well of required dia perfectly vertical to receive casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire and running charges of all equipments, tools, plants and machineries required for the job, all complete as per direction of Engineer-in- Charge, upto 90 metre depth below ground level.				
	16.1.1	All types of soil upto 90 metre depth.				
	16.1.1.2	150 mm dia.				
		Total	90	meter	413.00	37170.00
2	16.4	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS: 4270, of reputed and approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire and labour charges, fittings and accessories, all complete, for all depths, as per direction of Engineer- in-Charge.				
	16.4.2	150 mm nominal size dia having minimum wall thickness 4.85 mm				
		Total	45	meter	1191.00	53595.00
3	16.5	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed /plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire and labour charges, fittings and accessories, all complete, for all depths, as per direction of Engineer-in-Charge.				
	16.5.2	150 mm nominal size dia.				
		Total	45	meter	1271.00	57195.00
4	16.6	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading and sizes as per actual requirement, all complete as per direction of Engineer-in-charge.				

		Total	5	cum	947.00	4735.00
5	16.7	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 (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level and draw down etc. by step draw down method, collecting water samples and getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire and labour charges of air compressor, tools and accessories etc., all as per requirement and direction of Engineer-in-Charge.				
		Total	8	hour	478.00	3824.00
6	16.8	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:				
	16.8.2	150 mm dia				
		Total	1	each	366.00	366.00
7	16.9	Providing and fixing M.S. clamp of required dia made of 100 x10 mm flat to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts and nuts of required size complete.				
	16.9.2	150 mm clamp.				
		Total	1	each	1129.00	1129.00
8	16.10	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS: 2800 (part I).				
	16.10.2	150 mm dia				
		Total	1	each	242.00	242.00
9	16.13	Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well. Filter of 32 mm dia meter.				
		Total	90	meter	386.00	34740.00
10	16.18	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M- 25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four no longitudinal and 9 nos cross sectional T.M.T. Hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 16 mm complete, all as per direction of Engineer-in- Charge.				
		Total	1	each	959.00	959.00
Total cost of Tube Well						193955
BOUNDARY WALL						
S.No.	SOR No.	DESCRIPTION OF ITEM	QTY.	UNIT		
1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth 1.5 m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil .				
		Excavation for Column Footing				
			99.900	Cum.	147.00	14685.00
2	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
	4.1.2	With 40 mm nominal size graded metal / stone aggregate.				
	4.1.2.1	M-15 Grade concrete.				
			11.844	Cum.	4403.00	52149.00
3	5.16	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . Note :- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and				
	5.16.6	Thermo-Mechanically Treated bars. (TMT/TMX) FE 500 or more conforming to IS 1786				
			3025.311	Kg.	80.00	242025.00
4	5.1	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	5.1.1	M-20 Grade Concrete				
			27.927	Cum.	6153.00	171835.00
5	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
6	5.9.1	Foundations, footings, bases of columns, etc. for concrete upto plinth level				
		For Footing				
			108.840	Sqm.	190.60	20745.00
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
	5.9.2	Walls (any thickness) in cluding attached pilasters butteresses, plinth beams and string courses etc.				
	5.9.2.1	Upto Plinth Level.				
			81.000	Sqm.	219.00	17739.00

7	2.27	Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20 cm in depth and dressing complete.				
	2.27.1	With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20 cm in thickness and dressing complete. (Note:-				
		Total Quantity	77.463	Cum.	331.00	25640.00
8	5.2	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and upto floor two level excluding cost of centering, shuttering, finishing and reinforcement:				
	5.2.1	M-20 Grade Concrete				
		For Columns above Plinth Level	8.316	Cum.	6231.00	51817.00
9	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
	5.9.6	Columns , Pillars , Piers , Abutments , Posts and Struts .				
		For Columns above Plinth Level	110.880	Sqm.	471.20	52247.00
10	6.7	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894- 2002 , in super structure above plinth level up to floor two level in :				
	6.7.1	Having 100 kg / cm2 average compressive strength.				
	6.7.1.2	Cement mortar 1:6 (1 cement : 6 sand)	48.600	Cum.	5162.00	250873.00
11	13.1	12 mm cement plaster of mix :				
	13.1.2	1 : 6 (1 cement : 6 sand)				
			247.800	Sqm.	160.00	39648.00
12	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
	13.2.2	1 : 6 (1 cement : 6 sand)				
			247.800	Sqm.	168.00	41630.00
13	13.43	White washing with lime to give an even shade : New work (three or more coats).				
			495.600	Sqm.	11.00	5452.00
14	13.49	Wall painting by any mechanical or manual means with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre. of approved brand and manufacture, including applying additional coats wherever required to achieve even shade.				
			495.600	Sqm.	90.00	44604.00
Total cost of Boundary Wall						1031089
SEPTIC TANK						
1	2.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. in all kinds of soil.				
		TOTAL	0.235	100/S	803	189.00
2	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil				
		All kinds of soil				
		TOTAL	28.980	Cum	147	4260.00
3	2.25	Extra for every additional lift of 1.5 m or part thereof in excavation. (No extra lift is payable if work is done by mechanical means)				
	2.25.1	All kinds of soil.				
		PCC Work				
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
	4.1.1.4	M-10Nominal (Mix-1 Cement : 3 sand : 6 graded stone aggregate)				
		TOTAL	1.092	Cum	3890.00	4248.00
		RCC Work Upto Plinth level				
5	5.1	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	5.1.1	M 20 –Grade Concrete				
		TOTAL	10.22	Cum	6153.00	62884.00
		STEEL				

	5.16	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")				
	5.16.6	Thermo-Mechanically Treated bars.FE 500 or more conforming to IS 1786	955.57			
			955.57	Cum	77.00	73579.00
6	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
a	5.9.1	Foundations, footings, bases of columns, etc. for concrete upto plinth level				
		TOTAL	1.36	Sqm	190.60	259.00
b	5.9.2	Walls (any thickness) including attached pilasters buttresses, plinth beams and string courses etc.				
	5.9.2.1	Upto plinth level.				
		TOTAL	68.64	Sqm	219.00	15032.00
c	5.9.3	Suspended floors, roofs, landings, balconies and access platform.				
		TOTAL	17.46	Sqm	439.60	7675.00
		Septic Tank Accessories				
7	19.21	Providing and fixing in position precast R.C.C. manhole cover and frame of required shape and approved quality				
	19.21.1.1	Rectangular shape 600x450mm internal dimensions				
		TOTAL	2	Each	1229.00	2458.00
8	19.18	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to withstand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.				
		TOTAL	20	Each	266.00	5320.00
		Soak pit				
9	19.30	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks of class designation 75 and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.				
	19.30.1	With well burnt bricks	1			
		TOTAL	1	Each	20609.00	20609.00
Total cost of Civil Work of septic tank of Ashram Building						196513

ABSTRACT					
1		Total Cost of Civil Work			15,678,693
2		Internal Water supply ,Plumbing and Sanitary			1,234,456
3		Internal Electrification			794,916
4		External Electrification			669,224
5		Guard Room			1,095,442
6		Electric Work Guard Room			66,399
7		Tube Well			193,955
8		Boundary Wall			1,031,089
9		Septic Tank			196,513
		Total			20,960,687
				Say Rs.	209.61



Sub-Engineer
Tribal Affair Department
Chhindwara, MP

Assistant-Engineer
Tribal Welfare Department
Chhindwara, MP

GENERAL ABSTRACT OF CONSTRUCTION OF GIRLS ASHRAM BUILDING AT SAMARBOH

CIVIL WORK						
S. No.	SOR	Description	Qty.	Unit	Rate	Amount
1	2.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. in all kinds of soil.				
			30.00	100/Sqm	803.00	24090.00
2	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil				
			1345.28	m³	147.00	197756.00
3	2.25	Extra for every additional lift of 1.5 m or part thereof in excavation. (No extra lift is payable if work is done by mechanical means)				
			336.32	m³	30.00	10090.00
4	2.32	Preconstruction antitermite treatment to the building under construction by providing. Stage 1: Treating the bottom and the sides (upto 30 cm height of the excavated trench @ 5 liters per sqm of the surface area. Stage 2: After masonry/RCC work, the backfill in the immediate contact with the foundation structure treatment @ 7.5 liters per sqm. Of the vertical surface of the substructure for each side. Stage 3: surface treatment by spreading emulsion over the plinth area before laying the base concrete under floors @ 5.0 litres/Sqm. Stage 4: Pumping the emulsion in plinth masonry on filling side at floor junction @ 7.5 litres/Sqm. Stage 5: Pumping the emulsion from outer side of the plinth below ground around the masonry @ 5.0 litres/Sqm as per I.S. 8944 Emulsion. (1Chlorpyrifos: 19 water) with five years service guarantee (Measurements to be taken for plinth area) Note – Treatment should start when foundation trenches and pits are ready to take bed concrete or leveling course in foundations. Laying of bed concrete should start when the chemical emulsion has been absorbed by the soil and the surface is reasonably				
			750.000	m²	136.00	102000.00
5	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
	4.1.2	With 40mm nominal size graded stone aggregate.				
	4.1.2.2	M-10 Nominal (Mix -1 Cement : 3 sand : 6 graded stone aggregate)	49.370	m³	3808.00	188001.00
6	5.1	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	5.1.1	M-20 Grade Concrete				
			260.954	m³	6153.00	1605650.00
7	5.16	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")				
	5.16.6	Thermo-Mechanically Treated bars. FE 500 or more conforming to IS 1786	24399.20	Kg	80.00	1951936.00
8	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
a	5.9.1	Foundations, footings, bases of columns, etc. for concrete upto plinth level				
			929.763	m²	190.60	177213.00
b	5.9.2	Walls (any thickness) including attached pilasters buttresses, plinth beams and string courses etc.				
	5.9.2.1	Upto plinth level.	110.856	m²	219.00	24277.00

9	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
	4.1.2	With 40mm nominal size graded stone aggregate.				
	4.1.2.2	M-10 Nominal (Mix -1 Cement : 3 sand : 6 graded stone aggregate)	1.462	m ³	3808.00	5567.00
10	6.5	Brick work with well burnt open bhatta, bricks, crushing strength not less than 25kg /cm ² and water absorption not more than 20% in foundation and plinth i/c curing etc complete.				
	6.5.2	Cement Mortar 1:6 (1 cement: 6 sand).	10.085	m ³	4155.00	41903.00
11	2.24	Filling available excavated earth (excluding hard rock/Ordinary 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.				
			351.823	m ³	95.00	33423.00
12	2.27	Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete.				
	2.27.1	With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:- maximum thickness of this layer to be provided shall be 30cm)	851.091	m ³	393.00	334479.00
13	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
	4.1.2	With 40mm nominal size graded stone aggregate.				
	4.1.2.2	M-10 Nominal (Mix -1 Cement : 3 sand : 6 graded stone aggregate)	96.150	m ³	3808.00	366139.00
14	5.2	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and upto floor two level excluding cost of centering, shuttering, finishing and reinforcement:				
	5.2.1	M-20 Grade Concrete	32.020	m ³	6231.00	199517.00
15	5.3	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.				
	5.3.1	M-20 Grade Concrete	222.80	m ³	6541.00	1457335.00
16	5.16	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")				
	5.16.6	Thermo-Mechanically Treated bars. FE 500 or more conforming to IS 1786	26755.89	Kg	80.00	2140471.00
17	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
a	5.9.6	Columns, P i l l a r s , Piers, Abutments, Posts and Struts.	533.60	m ²	471.20	251432.00
b	5.9.5	Lintels, beams, girders, bressumers and cantilevers	571.697	m ²	356.00	203524.00
c	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	714.822	m ²	439.60	314236.00
d	5.9.7	Stairs, (excluding landings) except spiral- Staircases.	17.986	m ²	435.70	7837.00

18	6.7	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :				
	6.7.3	Having 50 kg / cm ² average compressive strength.				
	6.7.3.2	Cement Mortar 1:6 (1 cement: 6 sand).	320.92	m ³	4936.00	1584061.00
19	6.11	Extra for brick work in superstructure above floor two levels for each additional floor or part thereof respective item.				
			3.257	m ³	98.72	322.00
20	6.15	Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS: 12894, in super structure above plinth and upto floor two level.				
	6.15.3	Having 50 kg/cm ² average compressive strength.				
	6.15.3.2	Cement mortar 1:4 (1 cement : 4 sand)	164.340	m ²	459.00	75432.00
21	10.12	Providing and fixing pressed steel door frames made of 1.6 mm thick steel profile conforming to IS: 4351 manufactured from commercial mild steel sheet including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.60 mm pressed mild steel welded or rigidly fixed together by mechanical means, including 2.5mm thick M.S. pressed butt hinges, with mortar guards, lock strike-plate and shock absorbers as specified filling the frame with Cement Concrete 1:3:6 at site before fixing (cost of concrete to be paid separately) fixing with adjustable lugs (200 mm long & 1.0 mm thick) and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:				
	10.12.2	Profile C of 1.60mm thick single rebate of size 100mmx50mm				
	10.12.2.1	Fixing with adjustable lugs with split end tail to each jamb.	175.30	Rm	431.00	75554.00
22	9.18	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutter.				
	9.18.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.				
			58.015	m ²	2823.00	163776.00
23	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer. Rate includes recess cutting in floor and making good the same wherever required.				
			5.280	m ²	4132.00	21817.00
24	11.36	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 sand) 25 mm thick.(Area of slab to be over 0.25 sqm)				
			760.918	m ²	1174.00	893318.00
25	11.38	Kota stone slabs in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.				
	11.38.2	20 mm thick	114.14	m ²	1231.00	140506.00
26	11.48	Extra for Kota stone/ sand stone in treads of steps and risers using single length upto 1.05 metre.				
			121.539	m ²	10.00	1215.00
27	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix				
	13.2.2	Cement Mortar 1:6 (1 cement : 6 sand)				
			2554.720	m ²	168.00	429193.00
28	13.3	20 mm cement plaster of mix :				
	13.3.2	1:6 (1 cement : 6 sand)				
			1560.625	m ²	225.00	351141.00
29	13.8	6 mm cement plaster of mix : 1:3 (1 cement : 3 sand)				
			676.972	m ²	144.00	97484.00

30	11.49	Providing and laying Ceramic glazed floor tiles 300x300 mm or more (having thickness 6 to 7mm) of 1st quality conforming to IS : 15622 of approved make in any colours and shade laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 sand) including pointing the joints with white cement and matching pigment etc., complete.				
			22.410	m ²	670.00	15015.00
31	11.50	Providing and fixing Ceramic glazed wall tiles 300x450 mm or more (having thickness 6 to 7 mm) of 1st quality conforming to IS: 15622 of approved make in all Colours& shades, except burgundy, bottle green, black laid on 12mm thick bed of Cement Mortar 1:3 (1 Cement: 3 sand)prepad same day when mortar is still green jointed with grey cement slurry @3.3 kg per sqm including pointing the joints with white cement and matching pigments etc., complete.				
			278.160	m ²	776.00	215852.00
32	13.54	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
	13.54.3	Two or more coats applied on walls @ 1.25 ltr/10 sqm. Over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm.				
			3072.317	m ²	81.00	248858.00
33	13.50	Finishing walls by any mechanical or manual means with water proofing cement paint of required shade: New work (Two or more coats applied @				
			1720.000	m ²	48.00	82560.00
34	13.54	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
a	13.54.1	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/ 10 sqm of approved brand or manufacture				
			125.160	m ²	69.00	8636.00
b	13.54.2	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand or manufacture.				
			313.770	m ²	71.00	22278.00
35	10.23	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying a priming coat of approved steel primer.				
	10.23.1	M.S. tube.				
		For Stair case	247.23	KG	117.00	28926.00
36	9.43	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
	9.43.2	Fixed to openings /wooden frames with rawl plugs screws etc.				
			1868.75	KG	128.00	239200.00
37	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
a	21.1.1	For fixed portion.				
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	413.10	sqm	416.00	171850.00

b	21.1.2	For shutters of doors, windows and ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).				
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	275.39	sqm	484.00	133289.00
38	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item) :				
	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10 kg/sqm)	98.36	sqm	774.00	76131.00
39	21.4	Add extra for providing and fixing frosted glass instead of float glass				
	21.4.1	With glass panes of 4.0 mm thickness (weight not less than 10 kg/sqm)	98.36	sqm	259.00	25475.00
40	9.124	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.				
	9.124.2	With 12 mm mild steel U beading.	49.18	sqm	1370.00	67377.00
41	11.72	Providing and laying factory made chamfered edge Cement Concrete paver blocks of required colour strength, thickness pattern, surface texture (smooth/rough) and size/shape, conforming to 15658-2006 IS marked made by table vibratory method using PU mould, laid in required colour and pattern over 50mm thick compacted bed of stone dust, compacting and proper embedding/ laying of inter locking paver blocks into the bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand including locking edges in 0.30 mm with courtyards, porch with M 15 cement concrete in footpath, parks, lawns, drive ways or light traffic parking etc. complete as per manufacturer's specifications and direction of Engineer-in-Charge.				
	11.72.3	60 mm thick C.C. paver block of M-30 grade				
		TOTAL	192	sqm	605	116160.00
42	11.73	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in- Charge).				
		TOTAL	3.375	sqm	6097	20577.00
43	13.37	Providing and fixing writing board green writing with chalk (regular modified polyster coated steel surface) of sizes.				
	13.37.1	size 1200mmx1800mm	6.00	Each	7436	44616.00
44	22.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	97.88	Sqm	207	20261.00
45	4.26	Providing and laying cement concrete in sunken floors of WC, Toilets, Wash Areas etc with 1:5:10 (1 cement:5 coarse sand (zone-III) :10 graded stone aggregate 40 mm nominal size) excluding the cost of centering and shuttering.	11.87	Cum	3140	37272.00

46	22.6	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying : a) After surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. b) Laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. c) Third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around.	730.00	Sqm	338.00	246740.00
S. No.	SOR	Description	Qty.	Unit	Rate	Amount
47	22.14	Grading roof for receiving water proofing treatment with				
a	22.14.1	Cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size)	40.15	Cum	6569.00	263745.00
b	22.14.3	Cement mortar 1:4 (1cement : 4 sand)	14.60	Cum	8437.00	123180.00
Total Cost of Civil Work for Ashram Building						15678693
PLUMBING & SANITARY						
S.N O	S O	PARTICULARS	QTY	UNIT	RATE In RS.	AMOUNT In RS.
1	2.9	Excavating trenches of required width for pipes, cables, etc. Including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : (No extra lift is payable if work is done by mechanical means) in All kinds of soil				
	2.9.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	230.000			
		TOTAL	230.000	Meter	156	35880.00
2		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings. This included jointing of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer-in- Charge. External Work				
	18.7.6	50 mm nominal outer dia .Pipes.	55			
		TOTAL	55	M	498.00	27390.00
3		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge.				
a	18.6.1	Internal work - Exposed on wall				
i	18.6.1.	40 mm nominal outer dia .Pipes.	100			
		TOTAL	100	M	354.00	35400.00
ii	18.6.1.	50 mm nominal outer dia .Pipes.	50			
		TOTAL	50	M	528.00	26400.00
b	18.6.2	Concealed work including cutting chases and making good the walls etc.				
i	18.6.2.	15 mm nominal outer dia .Pipes.	29.978			
		TOTAL	29.978	M	207.00	6205.00
ii	18.6.2.	25 mm nominal outer dia .Pipes.	100			
		TOTAL	100	M	288.00	28800.00
iii	18.6.2.	32 mm nominal outer dia .Pipes.	80			
		TOTAL	80	M	360.00	28800.00
4	18.13	Providing and fixing CPVC gate valve with knob of approved quality.				
a	18.13.	25 mm nominal bore.	10			
		TOTAL	10	Each	428.00	4280.00
b	18.13.	32 mm nominal bore.	10			
		TOTAL	10	Each	500.00	5000.00
c	18.13.	40 mm nominal bore.	10			
		TOTAL	10	Each	584.00	5840.00
d	18.13.	50 mm nominal bore.	10			

		TOTAL	10	Each	749.00	7490.00
5	17.58	Providing and fixing unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type B including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Single socketed pipes for working pressure of 4 kg/sqcm. (minimum wall thickness 3.2mm)				
a	17.58.	75 mm diameter	100			
		TOTAL	100	RM	136.00	13600.00
b	17.58.	110 mm diameter	80			
		For Rain water pipe 110mm dia.	200			
		TOTAL	280	RM	238.00	66640.00
6	17.59	Providing and fixing unplasticised PVC moulded fittings/ accessories for unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
a	17.59.	Coupler				
	17.59.	75 mm	20			
		TOTAL	20	Each	117.00	2340.00
	17.59.1.2	110 mm	60			
		TOTAL	60	Each	154.00	9240.00
b	17.59.	Single tee with door				
	17.59.	75x75x75 mm	15			
		TOTAL	15	Each	219.00	3285.00
	17.59.3.2	110x110x110 mm	40			
		TOTAL	40	Each	346.00	13840.00
c	17.59.	Single tee without door				
	17.59.	75x75x75 mm	15			
		TOTAL	15	Each	201.00	3015.00
	17.59.	110x110x110 mm	40			
		TOTAL	40	Each	266.00	10640.00
d	17.59.	Bend 87.50				
	17.59.	75 mm bend	40			
		TOTAL	40	Each	117.00	4680.00
	17.59.	110 mm bend	100			
		TOTAL	100	Each	172.00	17200.00
7	MP UADD SOR - 23.62	Providing and fixing on wall face unplasticised PVC moulded fittings/ accessories for unplasticised (PVC u) soil and waste pipes conforming to IS: 13592 Type B including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
	23.62.8	Single Y Bend				
	23.62.8.1	75 mm	15			
		TOTAL	15	Each	112.00	1680.00
	23.62.8.2	110 mm	30			
		TOTAL	30	Each	177.00	5310.00
	23.62.9	Single Y with Door				
	23.62.9.1	75 mm	15			
		TOTAL	15	Each	123.00	1845.00
	23.62.9.2	110 mm	30			
		TOTAL	30	Each	201.00	6030.00
	23.62.5	Bend 87.50				
	23.62.5.1	75 mm	25			
		TOTAL	25	Each	72.00	1800.00
	23.62.5.2	100 mm	40			
		TOTAL	40	Each	101.00	4040.00
	23.62.7	Vent Cowl (Self Fit)				
	23.62.7.1	75 mm	16			
		TOTAL	16	Each	44.00	704.00
	23.62.7.2	110 mm	24			
		TOTAL	24	Each	52.00	1248.00
8	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, UPVC 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 :				
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.				
		TOTAL	5	Each	2995.00	14975.00

9	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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 :				
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid.				
		TOTAL	3	Each	3036.00	9108.00
10	17.11	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 required :				
a	17.11.3	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps.				
		TOTAL	6	Each	1938.00	11628.00
b	17.11.7	White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap.				
		TOTAL	2	Each	1525.00	3050.00
11	17.14	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :				
a	17.14.1	Kitchen sink with drain board				
	17.14.1.3	510x1040 mm bowl depth 200mm.				
		TOTAL	1	Each	7493.00	7493.00
b	17.14.2	Kitchen sink without drain board				
	17.14.2.2	610x460 mm bowl depth 200 mm.				
		TOTAL	1	Each	4351.00	4351.00
12	17.67	Providing and fixing bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.				
		TOTAL	2.16	Sqm	2440.00	5270.00
13	17.64	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.64.2	Flexible pipe (only in residential & complexes)				
	17.64.2.1	32mm Dia.				
		TOTAL	11	Each	87.00	957.00
14	17.61	Providing and fixing UPVC trap of self cleaning design complete. Including cost of cutting and making good the wall and floors. 100 mm inlet and 75 mm outlet				
		TOTAL	20	Each	517.00	10340.00
15	18.37	Providing and fixing C.P. brass pillar cock approved quality and make conforming to IS: specification. 15 mm nominal bore 125 mm long foam flow.				
		TOTAL	2	Each	1188.00	2376.00
16	18.35	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15 mm nominal bore				
		For Basin and geyser points				
		TOTAL	25	Each	714.00	17850.00
17	18.17	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	18.17.1	30 cm length				
		TOTAL	25	Each	88.00	2200.00
18	18.31	Providing and fixing C.P. brass bib cock of approved quality conforming to IS: 8931, 15 mm nominal bore.				
		TOTAL	25	Each	840.00	21000.00
19	18.34	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS: 8931. 15 mm nominal bore.				
		TOTAL	15	Each	1155.00	17325.00
20	25.36	Providing and fixing in position best Indian (bonut size 24mm, ceramic disc size 19mm and min. body thickness 2mm, nickel plating 0.10 micron and chrome plating 0.3 micron, quarter turn) 2- way Bib Cock .(Premium Range)				
		TOTAL	3	Each	2687.00	8061.00

21	25.37	Providing and fixing in position best Indian Health Faucet with 8mm dia 1 meter long Flexible Tube and wall bracket with N. R. V. (non-return wall). (Premium Range Sanitary Ware)				
		TOTAL	3	Each	1818.00	5454.00
22	18.43	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
		TOTAL	8	Each	130.00	1040.00
23	18.14	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
	18.14.3	25 mm nominal bore				
		TOTAL	10	Each	499.00	4990.00
24	18.28	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				
		TOTAL	10000	per litre	7.00	70000.00
		Sewage line work				
25	19.9	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 sand) R.C.C. top slab with Cement Concrete 1:2:4 mix (1cement : 2 sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cementcomplete as per standard design				
a	19.9.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
		TOTAL	40	Each	7997.00	319880.00
26	19.10	Extra for depth for manholes				
i	19.10.1	Size 90x80 cm				
	19.10.1.1	With well burnt bricks	36	Metre	6176.00	222336.00
27	19.8	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 sand) including testing of joints etc. complete :				
a	19.8.3	250 mm dia. R.C.C. pipe				
		TOTAL	150	Metre	385.00	57750.00
b	19.8.4	300 mm dia. R.C.C. pipe				
		TOTAL	80	Metre	480.00	38400.00
Total cost of Plumbing Work at Ashram Building						1234456
INTERNAL ELECTRIFICATION						
S. N.	SOR	DESCRIPTION OF ITEM	UNIT	QTY.	RATE	AMOUNT
1	4.1	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless				
	4.1.1	Light Point/Fan Points.				
	4.1.1.1	Short point	Each	21	451.00	9471.00
	4.1.1.2	Medium point	Each	60	830.00	49800.00
	4.1.1.3	Long point	Each	40	1300.00	52000.00
	4.1.2	Light point/fan points) looping point				
	4.1.2.1	Secondary short point	Each	2	226.00	452.00
	4.1.2.2	Secondary medium point	Each	4	415.00	1660.00
	4.1.2.3	Secondary long point	Each	3	650.00	1950.00
	4.1.3	3 Pin 6 Amp socket outlet on Separate Board				
	4.1.3.1	Short point	Each	5	574.00	2870.00
	4.1.3.2	Medium point	Each	10	990.00	9900.00
	4.1.3.3	Long point	Each	6	1515.00	9090.00
	4.1.4	Call Bell / Buzzer Points				

	4.1.4.2	Medium point	Each	1	797.00	797.00
	4.1.5	Twin Control light points				
	4.1.5.3	Long point	Each	2	1453.00	2906.00
2	4.2	Point wiring (excluding metallic switch box & sheet but including switches, sockets) for 3 pin 6 Amp. socket outlet point with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as	Each	35	265.00	9275.00
3	4.3	Wiring for circuit wiring with PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) of ISI marked suitable size etc. as required as per				
	4.3.1	2x2.5 Sq.mm.	Metre	550	139.00	76450.00
	4.3.2	4x2.5 Sq.mm.	Metre	196	224.00	43904.00
	4.3.3	6x2.5 Sq.mm.	Metre	100	288.00	28800.00
	4.3.4	8x2.5 Sq.mm.	Metre	10	353.00	3530.00
4	9.1	Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size etc. with 20/16 Amp. F.T. switch & socket/S.S. combined 20/16/6 Amp. of ISI marked and 4sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per				
	9.1.1	On separate board				
	9.1.1.1	Short point	Each	1	985.00	985.00
	9.1.1.2	Medium point	Each	2	1749.00	3498.00
	9.1.1.3	Long Point	Each	2	2612.00	5224.00
	9.1.1.4	Extra long-l	Each	1	3648.00	3648.00
5	16.1	Supply and fixing PVC conduit ISI marked FRLS along with the accessories in concealed system etc. as required				
	16.1	PVC Conduit 20 mm (HMS)	Metre	50	61.00	3050.00
	16.2	PVC Conduit 25 mm (HMS)	Metre	100	74.00	7400.00
	16.3	PVC Conduit 32 mm (HMS)	Metre	20	115.00	2300.00
6	18.2	Supplying and fixing of approved make modular type G.I. metal box 1.2mm minimum thick and depth 50mm for single row boxes and 60mm depth for two/three row boxes earth terminal stud				
	18.2.1	1/2 Module	Each	2	182.00	364.00
	18.2.2	3 Module	Each	10	216.00	2160.00
	18.2.3	4 Module	Each	2	244.00	488.00
	18.2.4	6 Module	Each	4	309.00	1236.00
	18.2.5	8 Module	Each	12	373.00	4476.00
	18.2.6	12 Module	Each	14	502.00	7028.00
7	19.1	Supplying and drawing single core PVC insulated cable FRLS with copper multi strand conductor ISI marked in existing rigid PVC casing and capping/conduit in surface or concealed as per specification.				
	19.1.1	1.5 sq. mm. wire				
	19.1.1.1	1 X 1.5 sq mm	Metre	50	19.00	950.00
	19.1.1.3	3 X 1.5 sq mm	Metre	200	56.00	11200.00
	19.1.2	2.5 sq. mm. wire				
	19.1.2.1	1 X 2.5 sq mm	Metre	20	30.00	600.00
	19.1.2.2	2 X 2.5 sq mm	Metre	100	60.00	6000.00
	19.1.3	4.0 sq. mm. wire				
	19.1.3.2	2 X 4.0 sq mm	Metre	10	90.00	900.00
	19.1.3.3	3 X 4.0 sq mm	Metre	35	134.00	4690.00
8	23.1	Wiring for sub-mains with PVC insulated cable FRLS with copper multi strand conductor ISI marked in recessed/concealed rigid PVC conduit (HMS) FRLS ISI marked of suitable size (conduit included) including 2mm thick accessories, connection etc, as required as per specification. (Refer General Notes for Classification of Conduit Wiring Point				
	23.1.1	2 Wire Submain				
	23.1.1.3	6.0 sq mm cable in 25 mm conduit	Metre	20	264.00	5280.00
	23.1.4	4 Wire Submain				
	23.1.4.3	6.0 sq mm cable in 25 mm conduit	Metre	30	398.00	11940.00
	23.1.4.4	10.0 sq mm cable in 32 mm conduit	Metre	10	601.00	6010.00
9	27.3	Supplying of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase & N, 4 pole, 50 Hz, 415 Volts, (Ics=100%Icu) AC supply with thermal-magnetic release having respective breaking capacity (KA) at 415 Volts cited against their range.				
	27.3	MCCB with Breaking Capacity 25 KA at 415 V				

	27.3.1	MCCB 25kA current rating - 63 to 100Amp & adjustable overload setting 80% - 100% of In, adjustable short circuit setting 6-10 In 4 Pole	Each	1	9781.00	9781.00
10	27.8	Supply of ISI marked and accepted standard of miniature circuit breaker (MCB) of 'C' series with short circuit indication, suitable for 240/415 Volts, 50 Cycle, 10 kA/15 kA Value AC supply conforming to IS : 8828 : 1996, IEC : 60898 : 2002 & 60947-2 but without enclosures :-				
	27.8.1	SINGLE POLE (SP)				
	27.8.1.2	6Amp to 32Amp 10kA rating	Each	42	263.00	11046.00
	27.8.2	DOUBLE POLE (DP)				
	27.8.2.3	For 40Amp 10kA rating	Each	1	1329.00	1329.00
	27.8.4	FOR TRIPLE POLE & NEUTRAL (FP)				
	27.8.4.2	6 Amp to 32 Amp Rating	Each	1	1965.00	1965.00
	27.8.4.4	50Amp to 63Amp 10kA rating	Each	1	2795.00	2795.00
11	27.11	Supply of approved make powder coated sheet steel encloser SPN MCB DB inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & Isolator).				
	27.11.6	12 Way double door IP 43 protection	Each	1	2738.00	2738.00
12	27.12	Supplying of approved make TPN MCB DB metal double door IP 43 protection with provision for FP MCB/ Isolator/ RCCB/ RCBO as incomer and SP MCBs as outgoing inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & Isolator).				
	27.12.2	4 way (8+12)	Each	1	4444.00	4444.00
	27.12.3	6 way (8+18)	Each	1	5526.00	5526.00
13	28.4	Fixing of MCB/MCCB/Isolator in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection				
	28.4.1	MCB / Isolator SP/DP	Each	42	22.00	924.00
	28.4.2	MCB /MCCB Isolator TP /TPN/FP	Each	3	28.00	84.00
14	28.5	Labour charges for fixing sheet steel enclosure, MCB DB surface mounting type, as per accepted practice on 25x5mm flat iron clamps				
	28.5.2	27.11.5 & 27.12.1 to 27.12.2	Each	1	545.00	545.00
	28.5.3	27.12.3 to 27.12.4 & 27.13.1	Each	1	572.00	572.00
15	28.6	Labour charges for fixing sheet steel enclosures, MCB DB surface mounting type, as per accepted practice on 25x25x 5 mm angle iron clamp, including supplying and fixing of clamp duly embedded in wall				
	28.6.1	27.11.6 & 27.11.7; 27.12.5 ; 27.13.2 to 27.13.4 & 27.14.1 to 27.14.4 ;	Each	1	414.00	414.00
16	29.3	Supply and fixing as per specification call bell/buzzer of approved make with necessary materials complete.				
	29.3.3	Ding dong bell	Each	1	185.00	185.00
17	29.25	Supply and fixing of approved make step type modular electronic fan regulator including connection etc. as required on existing board				
	29.25.2	100 Watt (2 Module)	Each	50	484.00	24200.00
18	29.27	Supply, fixing, testing & commissioning wall/floor mounted LT panel primer coated with powder coated paint & provided with required gasket for dust/vermin proof with degree of protection IP42 suitable for 415Volt 3 phase, 50 Hz, 4 wire system fabricated out of CRCA sheet upto 2 mm thick (1.6 mm for doors) duly compartmentalized for incomer, bus section, outgoings, cable alleys & CT, PT Ampere Metre, Volt Metre, selector switches, frequency Metre, phase indicating lamp, Energy Metre complete including cost of busbar supports, detachable cable gland plates, 2 earthing terminals, internal wiring & fixing of separately supplied MCBs, MCCBs, ACB, panel mounted changeover switch/SFUs, etc. as required but excluding cost of busbar strips, Ampere Metre, Volt Metre, selector switch as per approved design & specification	kg	35	397.00	13895.00
19	29.28	Supply and fixing of LT panel accessories of approved make in existing LT panel including connections etc. as required as per specification.				
	29.28.1	Digital Ampere Metre with CTs with selector switch	set	1	2125.00	2125.00
	29.28.2	Digital Volt Metre with selector switch & HRC fuse	set	1	2398.00	2398.00
	29.28.4	Copper bus bar strips with PVC sleeves	kg	4	788.00	3152.00
	29.28.6	LED lamp indicator	Each	3	255.00	765.00
20	30.1	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete of approved as required confirming				
	30.1.2	Ceiling Fan (ISI marked)-1200 mm Sweep, with minimum air delivery 210	Each	50	2292.00	114600.00

21	30.2	Supplying, erection and testing of approved make wall mounting fan oscillating type with base, blades, guard, speed regulator etc. AC 230- 250 volts with connections and including raw bolt/anchor hole fastener				
	30.2.2	400 sweep	Each	6	2810.00	16860.00
22	30.4	Supplying, erection and testing of approved make 'Fresh air fan' AC 230-250 volts with connection and including frame bolt/anchor hole fasteners etc. complete finished and as required.				
	30.4.5	300 mm sweep double ball bearing	Each	2	1973.00	3946.00
23	30.6	Supplying, erecting and testing of approved make exhaust fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/anchor hole fasteners etc. complete finished and				
	30.6.1	300mm sweep RPM 900 /1400	Each	6	2571.00	15426.00
24	31.3	Supply and fixing Led tube rod comprising of LED tube with non-integral/integral driver, upto 6500K color temp having 40000 burning hrs life with minimum @ L 70, system lumen output should be minimum with system efficacy> 100 lm/Watt. LED driver PF> 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c				
	31.3.1	Tube light LED 1 X 8/10Watt Integral i/c batten aluminium body, PC	Each	2	502.00	1004.00
	31.3.3	Tube light LED 1 X 18Watt, Integral i/c batten aluminium body, PC	Each	6	713.00	4278.00
	31.3.4	Tube light LED 1 X 20/22Watt, Integral i/c batten aluminium body, PC	Each	60	782.00	46920.00
25	31.4	Supply and fixing of recessed mounting type Led light fixture, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF> 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79- 08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.				
	31.4.1	LED luminaire 2' X 2', 36Watt, color temp 3000-6500k as required.	Each	2	3103.00	6206.00
26	31.6	Supply and fixing recessed mounting LED down lighter, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79- 08/IS16106 (2012), IEC60598, IEC61347i/c connection wire,				
	31.6.5	14/15 Watt, color temp 3000-6500k as required.	Each	2	1150.00	2300.00
27	31.7	Supply and fixing surface mounting LED down lighter, LED of 1 to 3Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79- 08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to				
	31.7.4	14/15 Watt, color temp 3000-6500k as required.	Each	2	1400.00	2800.00
28	31.14	Supplying and fixing flood light with high power LED of 3 to 6 Watt each assembled on single MCPCB and additional unique peanut lens on each LED, system lumens output with efficacy>120 lm/Watt. luminaire having color temp upto 6500K & 50000 hrs. burning life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminaire comprises of driver, PF > 0.95 & surge protection 10KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP65 protection. Submission LM 79- 08/IS16106 (2012), IEC60598, IEC61347i/c connection wire,				
	31.14.4	90/100Watt, color temp 3000-6500k as required.	Each	2	11553.00	23106.00
29	32.3	Providing and fixing circular/hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm 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/M.S. sheet box by mean of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of	Each	46	90.00	4140.00

30.	37.3	Earthing with G.I. earth plate 600mm X 600mm X 6mm thick including accessories and providing masonry encloser in cement mortar, cover plate having locking arrangement on the top and G.I. watering pipe 20mm dia 2.7 metre long etc.	Each	2	7487.00	14974.00
31.	37.5	Add extra for using salt and charcoal/coke for G.I. plate or copper plate earth electrode as required including excavation and refilling the pit in	Each	2	1655.00	3310.00
32.	37.9	Supply and laying 25mm X 5mm G.I. strip at 0.5 metre below ground level as strip earth electrode including jointing etc. as required.	Metre	10	130.00	1300.00
33	37.12	Providing and fixing 25mm X 5mm G.I. strip in 40 mm dia G.I. pipe from	Metre	15	928.00	13920.00
34	37.13	Providing and laying earth connections from earth electrode with 4.00 mm dia G.I. wire in 15mm dia G.I. Pipe from earth electrode as required.	Meter	20	222.00	4440.00
35	37.16	Providing and fixing 25mm X 5mm G.I. strip on surface or in recessed for	Meter	10	130.00	1300.00
36	37.18	Providing and fixing 4.87mm (6 SWG) dia. G.I. wire on surface or in	Meter	5	30.00	150.00
37	37.39	Supplying and drawing PVC insulated copper cable (Earth Continuity Conductor) of Green colour FR with copper multi strand conductor ISI marked in existing conduit along with other wires as required as per				
	37.39.1	4 Sq mm	Meter	15	52.00	780.00
	37.39.2	6 Sq mm	Meter	10	71.00	710.00
38	38.1	Supplying and drawing co-axial T.V. cable RG 6 Grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid	Metre	41	30.00	1230.00
39	38.2	Supplying and drawing following pair, 0.5 mm PVC insulated copper conductor unarmoured telephone cable in existing surface/concealed, steel/PVC conduit as required.				
	38.2.2	Telephone wire 0.5 mm, 2 Pair	Metre	55	36.00	1980.00
40	38.3	Supply installation, testing commissioning of 0.5 mm size Solid annealed copper, Jelly Filled Telephone Cables, Polythene Insulated, Petroleum Jelly Filled with Poly-al laminate moisture barrier, Polythene Sheathed, Unarmoured Polythene Jacketed Telephone Cables as per DOT				
	38.3.1	10 Pair	Metre	10	173.00	1730.00
41	38.4	Supply, Installation testing and commissioning of telephone Tag block Krone connector with enclosure and lock complete as mentioned below				
	38.4.1	10 Pair	Metre	1	693.00	693.00
42	38.6	Supply, fixing and testing of RJ 11 telephone jack modular (1Module)	Each	6	174.00	1044.00
43	38.8	Supply, fixing and testing of T.V. Outlet Modular (1Module)	Each	2	175.00	350.00
44	38.9	Supply, installation testing and commissioning RJ - 45 computer jack cat				
	38.9.1	RJ - 45 computer socket cat 6 with shutter modular (1Module)	Each	2	288.00	576.00
45	38.12	Supplying and drawing 4 pair shielded twisted pair (STP), 0.5 mm PVC insulated copper conductor un-armoured Cat-6 computer cable FRLS in existing surface/concealed, steel/PVC. conduit/ casing-n-capping as required.	Metre	75	104.00	7800.00
46	41.1	Supply of XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade, 1 core/2 core/3½ core/4 core ISI marked with alu. stranded				
	41.1.8	3½ core armoured				
	41.1.8.2	35 sq. mm.	Metre	50	280.00	14000.00
		Brass compression gland				
47	41.5	Supplying and fixing heavy duty cable gland for P.V.C. insulated armoured cable with brass washer, rubber ring complete erected with cable and lead connection etc. as per specification complete.				
	41.5.1.4	Gland size 32 mm for 2/3, 3½, 4 x 25 sq. mm OR 2/3, 3½ x 35 sq. mm or 2/3/3½ x 50 sq. mm.	Each	2	158.00	316.00
		Ferrules				
48	41.6	Supplying and fixing ferrules as per IS - specification suitable for following size of cable for circuit identification including connection as required complete				
	41.6.5	35 sq. mm.	Each	8	7.00	56.00
49	41.7	Supplying and fixing crimping type alum. lugs as per I.S.S. specification suitable for following size of cable with alu./copper solid/stranded conductor evenly crimped with high/pressure tool and connected to switch gear/bus/M.C.C.B./M.C.B. etc. as required complete.				

	41.7.3	35 sq. mm.	Each	8	22.00	176.00
50	41.14	Supplying and installing double wall corrugated pipes (DWC) of HDPE (IS 14930 Part II -marked) for cable laid underground with necessary material and at required depth upto 90cm. below road/ground surface, including excavation, back filling with excavated material ramming and				
	41.14.1	50.00mm outside dia.	Metre	10	133.00	1330.00
		Cable laying				
Total Cost of Internal Electrification Work						794916
EXTERNAL ELECTRIFICATION						
S. N.	SOR CODE	DESCRIPTION OF ITEM	UNIT	QTY.	RATE	AMOUNT
1	19.1	Supplying and drawing single core PVC insulated cable FRLS with copper multi strand conductor ISI marked in existing rigid PVC casing and capping/conduit in surface or concealed as per specification.				
	19.1.1	1.5 sq. mm. wire				
	19.1.1.3	3 X 1.5 sq mm	Metre	50	56.00	2800.00
2	27.2	Supplying of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase,3 pole, 50 Hz, 415 Volts, (Ics=100%Icu) AC supply with thermal - magnetic release having respective breaking capacity (KA) at 415 Volts cited against their range standard conforming to IS/IEC 60947-2				
	27.2	MCCB with Breaking Capacity 25 KA at 415 V				
	27.2.1	MCCB 25kA current rating - 63 to100Amp & adjustable overload setting 80% -100% of In, adjustable short circuit setting 6-10 In 3 Pole	Each	1	7538.00	7538.00
	27.2.6	MCCB 36kA current rating - 200Amp & adjustable overload setting 80% -100% of In, adjustable short circuit setting 6-10 In 3 Pole	Each	1	19291.00	19291.00
3	27.8	Supply of ISI marked and accepted standard of miniature circuit breaker (MCB) of 'C' series with short circuit indication, suitable for 240/415 Volts,50 Cycle, 10 kA/15 kA Value AC supply conforming to IS : 8828 : 1996, IEC : 60898 :2002 & 60947-2 but without enclosures :-				
	27.8.1	SINGLE POLE (SP)				
	27.8.1.2	6Amp to 32Amp 10kA rating	Each	3	263.00	789.00
	27.8.4	FOR TRIPLE POLE & NEUTRAL(FP)				
	27.8.4.2	6 Amp to 32 Amp Rating	Each	1	1965.00	1965.00
	27.8.4.4	50Amp to 63Amp 10kA rating	Each	1	2795.00	2795.00
4	28.4	Fixing of MCB/MCCB/Isolator in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (labour only)				
	28.4.1	MCB / Isolator SP/DP	Each	3	22.00	66.00
	28.4.2	MCB /MCCB Isolator TP /TPN/FP	Each	3	28.00	84.00

5	29.27	Supply, fixing, testing & commissioning wall/floor mounted LT panel primer coated with powder coated paint & provided with required gasket for dust/vermin proof with degree of protection IP42 suitable for 415V 3 phase, 50 Hz, 4 wire system fabricated out of CRCA sheet upto 2 mm thick (1.6 mm for doors) duly compartmentalized for incomer, bus section, outgoing, cable alleys & CT, PT Ampere Metre, Volt Metre, selector switches, frequency Metre, phase indicating lamp, Energy Metre complete including cost of busbar supports, detachable cable gland plates, 2 earthing terminals, internal wiring & fixing of separately supplied MCBs, MCCBs, ACB, panel mounted changeover switch/SFUs, etc. as required but excluding cost of busbar strips, Ampere Metre, Volt Metre, selector switch as per approved design & specification	kg	45	397.00	17865.00
6	29.28	Supply and fixing of LT panel accessories of approved make in existing LT panel including connections etc. as required as per specification.				
	29.28.1	Digital Ampere Metre with CTs with selector switch	set	1	2125.00	2125.00
	29.28.2	Digital Volt Metre with selector switch & HRC fuse	set	1	2398.00	2398.00
	29.28.4	Copper bus bar strips with PVC sleeves	kg	6	788.00	4728.00
	29.28.6	LED lamp indicator	Each	3	255.00	765.00
7	31.12	Supply and fixing street light with high power LED of 3 to 6 W each on existing bracket assembled on single MCPCB, system lumens output with efficacy > 120 lm/W. luminaire having color temp upto 6500K & 50000 burning hrs. life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminaire comprises of driver, PF > 0.95 & surge protection 10KV. Housing made of pressure die cast aluminium with heat resistant flat glass/Lens type, IP65 protection. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347/c connection wire, testing etc. to complete the job.				
	31.12.2	24Watt to 25Watt, color temp 3000-6500k as required.	Each	3	2737.00	8211.00
8.	37.3	Earthing with G.I. earth plate 600mm X 600mm X 6mm thick including accessories and providing masonry encloser in cement mortar, cover plate having locking arrangement on the top and G.I. watering pipe 20mm dia 2.7 metre long etc. (but without charcoal or coke and salt) complete as required	Each	3	7487.00	22461.00
9.	37.4	Earthing with copper earth plate 600mm X 600mm X 3mm thick including accessories and providing masonry encloser in cement mortar, cover plate having locking arrangement on the top and G.I. watering pipe 20mm dia 2.7 metre long etc. (but without charcoal or coke and salt) complete as required	Each	2	16341.00	32682.00
10.	37.5	Add extra for using salt and charcoal/coke for G.I. plate or copper plate earth electrode as required including excavation and refilling the pit in all type of soil, murrum	Each	5	2783.00	13915.00
11.	37.9	Supply and laying 25mm X 5mm G.I. strip at 0.5 metre below ground level as strip earth electrode including jointing etc. as required.	Metre	15	130.00	1950.00

12	37.12	Providing and fixing 25mm X 5mm G.I. strip in 40 mm dia G.I. pipe from earth electrode as required	Metre	50	928.00	46400.00
13	37.13	Providing and laying earth connections from earth electrode with 4.00 mm dia G.I. wire in 15mm dia G.I. Pipe from earth electrode as required.	Meter	30	222.00	6660.00
14	37.18	Providing and fixing 4.87mm (6 SWG) dia. G.I. wire on surface or in recessed for loop earthing as required.	Metre	10	30.00	300.00
15	41.1	Supply of XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade, 1 core/2 core/3½ core/4 core ISI marked with alu. stranded /solid conductor				
	41.1.8	3½ core armoured				
	41.1.8.5	95 sq. mm.	Metre	25	625.00	15625.00
	41.1.10	4 core armoured				
	41.1.10.1	6 sq. mm.	Metre	80	151.00	12080.00
		Brass compression gland				
16	41.5	Supplying and fixing heavy duty cable gland for P.V.C. insulated armoured cable with brass washer, rubber ring complete erected with cable and lead connection etc. as per specification complete.				
	41.5.1.1	Gland size 22mm suitable for cable 2,3,3½ & 4 x upto 6 sq. mm	Each	10	79.00	790.00
	41.5.1.6	Gland size 45 mm 3/3½ x 120 sq. mm, 3½ x 95 sq. mm, 3 x 150 sq. mm.	Each	6	260.00	1560.00
		Ferrules				
17	41.6	Supplying and fixing ferrules as per IS - specification suitable for following size of cable for circuit identification including connection as required complete				
	41.6.1	2.5-6.00 sq. mm	Each	40	3.00	120.00
	41.6.8	95 sq. mm.	Each	24	18.00	432.00
18	41.7	Supplying and fixing crimping type alum. lugs as per I.S.S. specification suitable for following size of cable with alu./copper solid/stranded conductor evenly crimped with high/pressure tool and connected to switch gear/bus/M.C.C.B./M.C.B. etc. as required complete.				
	41.7.1	6mm to 16 sq. mm	Each	40	8.00	320.00
	41.7.6	95 sq. mm.	Each	24	58.00	1392.00
19	41.14	Supplying and installing double wall corrugated pipes (DWC) of HDPE (IS 14930 Part II -marked) for cable laid underground with necessary material and at required depth upto 90cm. below road/ground surface, including excavation, back filling with excavated material, ramming and making the surface good.				
	41.14.4	110.00mm outside dia.	Metre	10	252.00	2520.00
		Cable laying				
20.	41.15	Laying of one number armoured / unarmoured power cable 1.1KV grade of size not exceeding 25 sq. mm direct in ground including excavation in all soil/ murrum /soft rock, sand cushioning, protective covering and refilling the pit etc. as required.	Metre	60	230.00	13800.00

21.	41.16	Laying of one number armoured / unarmoured power cable 1.1.KV grade of size exceeding 25sq. mm but not exceeding 120 sq. mm direct in ground including excavation in all soil/ murrum /soft rock, sand cushioning, protective covering and refilling the pit etc. as required.	Metre	25	246.00	6150.00
22.	41.22	Laying of one number armoured / unarmoured power cable 1.1 KV grade of size exceeding 25 sq. mm but not exceeding 120 sq. mm. in the existing RCC Hume /Stone ware/G.I. Pipe/surface in existing trench as required.	Metre	35	35.00	1225.00
23	42.2	Supply of support for overhead line RS joist of I.S. standard including drilling of required hole etc. complete as required.				
	42.2.6	H - Beam 152x152mm, Std weight 37.1 Kg/Mtr	Metre	24	2843.00	68232.00
24	42.3	Supply of steel tubular pole swaged type as per IS:2713-1980 complete with base plate and top Canopy				
	42.3.3	410 SP-8 - 7.50 metre.	Each	5	11025.00	55125.00
25	42.6	Supplying and drawing of stranded aluminium conductor steel reinforced (ACSR) conforming to IS:398- 1976 of approved make, stringing, making off complete with binding at existing insulator, jointing, jumpering, tearing off, connecting etc. as required and clearing of obstacles (if any) etc.				
	42.6.4	ACSR 0.075 sq inch (80 sq.mm Al. EQ.)- (Raccoon)	Km	0.25	88530.00	22133.00
26	42.13	Supplying and erection of water tight terminal box made of 16 SWG M.S. Sheet (1.6mm thick) i/c rubber gasket of required size suitable for kit kat/MCB/switch including 2 nos. pole clamp of M.S. flat iron size 32x3mm, nut and bolts, 4 Pole epoxy connector nut & bolt type, 30Amp, 500Volt. The box shall be powder coated excluding the cost of the kit kat/MCB/Switch complete as per specification.				
	42.13.2	30x20x10 Cms	Each	3	1158.00	3474.00
27.	42.58	Supplying and erection of single piece nonlinear resistor type lighting arrestor (set of 3 nos) for 3 wire, 11KV overhead lines/sub- station with rated voltage of 9KV (rms) with a nominal discharge current rating of 5 KA and complete with galvanized clamping arrangement, G.I. bolts, nuts, washer etc. as required.	Set	1	3832.00	3832.00
28.	42.62	Supplying installing, testing & commissioning of outdoor H.T., AB switch assembly set gang operated with brass contact parts, including required GI pipe operating rod, handle & locking arrangement on On Off position conforming to IS complete with required material and installing on existing DP structure to complete the job as required as per specification.(Set of 3 nos.)				
	42.62.1	11 KV, 400Amp	Set	1	8989.00	8989.00
29.	42.63	Supplying installing, testing & commissioning D.O. fuse assembly with brass part contact for 33 or 11/0.4 KV DP Structure set of 3 Nos. with fuse barrel i/c required fuse element & other materials as per specification on existing D.P. structure as required.				
	42.63.1	11 KV, 400Amp	Set	1	4721.00	4721.00

30.	42.68	Supply, laying and fixing of G.I. earth coil of 4mm dia G.I. wire having 120 turns of nearly 50mm dia. and 3 mt. long tail in existing pit duly earthed with pole etc complete as required as per specification.	Each	4	293.00	1172.00
31.	42.70	Supplying, installing, testing and commissioning of 11/0.4 KV 3 Phase 50 cycle oil immersed, naturally cooled, outdoor type transformer connected delta on H.T. side and star on L.T. side, dehydrating silica gel breather on eye level, rating and diagram plate, two earthing terminal, lifting lugs, oil level gauge, drain valve with plug, temperature not exceeding 50°C on load, oil filling hole with plug, four unidirectional roller, arcing horns, explosion vent, terminal arrangement bushing on H.V. side and cable box on LV side, first filling of oil upto desired level and transformer installing on existing structure with all required materials arrangement as required ISI marked & as per IS specification, hand operated off load tap changer switch above 100 KVA, oil conservator with drain valve, plug 63 KVA and above. Energy efficiency level -3				
	42.70.3.2	63 KVA	Each	1	249744.00	249744.00
Total Cost of External Electrification Work						669224

GUARD ROOM						
S.NO	SOR	PARTICULARS	QTY	UNIT	RATE In RS.	AMOUNT In RS.
1	2.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. in all kinds of soil.				
		TOTAL	0.75	100/Sq	803	602.00
2	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil				
		All kinds of soil				
		EXCAVATION FOR FOOTING				
		TOTAL	46.08	Cum	147	6774.00
3	2.25	Extra for every additional lift of 1.5 m or part thereof in excavation. (No extra lift is payable if work is done by mechanical means)				
	2.25.1	All kinds of soil.				
		EXCAVATION FOR FOOTING				
		TOTAL	11.52	Cum	30	346.00
4	2.24	Filling available excavated earth (excluding hard rock/Ordinary 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.				
		TOTAL	39.960	Cum	95	3796.00
5	2.32	Preconstruction antitermite treatment to the building under construction by providing: Stage 1: Treating the bottom and the sides (upto 30 cm height of the excavated trench @ 5 liters per sqm of the surface area. Stage 2: After masonry/RCC work, the backfill in the immediate contact with the foundation structure treatment @ 7.5 liters per sqm. Of the vertical surface of the substructure for each side. Stage 3: surface treatment by spreading emulsion over the plinth area before laying the base concrete under floors @ 5.0 litres/Sqm. Stage 4: Pumping the emulsion in plinth masonry on filling side at floor junction @ 7.5 litres/Sqm. Stage 5: Pumping the emulsion from outer side of the plinth below ground around the masonry @ 5.0 litres/Sqm as per I.S. 8944 Emulsion. (1Chlorpyrifos: 19 water) with five years service guarantee (Measurements to be taken for plinth area) Note – Treatment should start when foundation trenches and pits are ready to take bed concrete				
		TOTAL	36.000	Sqm	136	4896.00
6	2.9	Excavating trenches of required width for pipes, cables, etc. Including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : (No extra lift is payable if work is done by mechanical means) in				
		All kinds of soil				
	2.9.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	20.000			
		TOTAL	20.000	Meter	156	3120.00
		PLINTH FILLING				
7	2.27	Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete.				
	2.27.1	With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:- maximum thickness of this layer to be provided shall be 30cm)				
		TOTAL	28.800	Cum	393	11318.00
		PCC Work				
8	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
	4.1.1.4	M-10Nominal (Mix-1 Cement : 3 sand : 6 graded stone aggregate)				
		TOTAL	6.734	Cum	3890.00	26195.00
		RCC Work Upto Plinth level				

9	5.1	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	5.1.1	M 20 –Grade Concrete				
		TOTAL	11.08	Cum	6153.00	68175.00
		RCC Work Above Plinth Level				
10	5.2	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and upto floor two level excluding cost of centering, shuttering, finishing and reinforcement:				
	5.2.1	M-20- Grade Concrete				
		TOTAL	2.208	Cum	6231.00	13758.00
11	5.3	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.				
	5.3.1	M-20- Grade Concrete				
		TOTAL	11.126	Cum	6541.00	72775.00
		Reinforcement Steel				
12	5.16	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3.Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")				
	5.16.6	Thermo-Mechanically Treated bars.FE 500 or more conforming to IS 1786				
		All Work upto Plinth Level	11.08			
		All Work above Plinth Level upto two floor Level- Columns	2.21			
		All Work above Plinth Level upto two floor Level- Beams & Slab	11.13			
		Steel @93.50 kg per cum of Concrete	24.41			
		TOTAL	2282.34	Kg	80.00	182587.00
		FORM WORK				
13	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
a	5.9.1	Foundations, footings, bases of columns, etc. for concrete upto plinth level				
		TOTAL	45.00	Sqm	190.60	8577.00
b	5.9.2	Walls (any thickness) including attached pilasters butteresses, plinth beams and string courses etc.				
	5.9.2.1	Upto plinth level.				
		TOTAL	36.00	Sqm	219.00	7884.00
c	5.9.5	Lintels, beams, girders, bressumers and cantilevers				
		TOTAL	69	Sqm	356.00	24564.00
d	5.9.3	Suspended floors, roofs, landings, balconies and access platform.				
		TOTAL	50.222	Sqm	439.60	22078.00
e	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts.				
		TOTAL	31.600	Sqm	471.20	14890.00
		BRICK WORK				
14	6.5	Brick work with well burnt open bhatta, bricks, crushing strength not less than 25kg /cm2 and water absorption not more than 20% in foundation and plinth i/c curing etc complete.				
	6.5.2	Cement Mortar 1:6 (1 cement: 6 sand).				
		TOTAL	4.734	Cum	4155.00	19670.00
15	6.7	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :				

	6.7.3	Having 50 kg / cm ² average compressive strength.				
	6.7.3.2	Cement mortar 1:6 (1 cement : 6 sand)				
		TOTAL	27.844	Cum	4936.00	137438.00
16	6.15	Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS: 12894, in super structure above plinth and upto floor two level.				
	6.15.3	Having 50 kg/cm ² average compressive strength.				
	6.15.3.2	Cement mortar 1:4 (1 cement : 4 sand)				
		TOTAL	34.590	Sqm	459.00	15877.00
17	6.17	Extra for providing and placing in position 2 Nos. 8mm dia. M.S. bars at every third course of in half brick masonry.				
		TOTAL	34.59	Sqm	127.00	4393.00
		Plaster Work				
		Ceiling plaster				
18	13.8	6 mm cement plaster of mix : 1:3 (1 cement : 3 sand)				
		TOTAL	86.395	Sqm	144.00	12441.00
		Internal plaster				
19	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix				
	13.2.2	1:6 (1 cement : 6 sand)				
		TOTAL	177.765	Sqm	168.00	29865.00
20	13.6	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 sand) finished with a top layer 6mm thick cement plaster 1:4 (1 cement : 4 sand).				
		TOTAL	196.58	Sqm	220.00	43248.00
		Painting Work				
21	13.54	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
	13.54.3	Two or more coats applied on walls @ 1.25 ltr/10 sqm. Over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm.				
		TOTAL	460.735	Sqm	81.00	37320.00
22	13.41	Providing and applying white cement based putty of average thickness 1 mm, of approved brand over the plastered wall surface to prepare the surface even and smooth i/c all cost of material, labour and scaffold etc in all position complete. Note : Putty shall be applied only on the internal walls, for application on the exterior walls prior permission of APD/Chief Engineer will be required.				
		TOTAL	264.160	Sqm	74.00	19548.00
		Wooden Work				
23	9.19	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 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
	9.19.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.				
		TOTAL	5.880	Sqm	1870.00	10996.00
24	9.175	Providing and fixing PVC Door Frame of size 50x47mm with a wall thickness of 5 mm (±0.2 mm) made out of single piece extruded PVC profile, with mitred cut joints and joint with 2nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35x15mm and self driven self tapping screws, the vertical door profiles to be reinforced with 40x20mm M.S. rectangular tube of 0.8 mm, including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8x100mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.				
		TOTAL	10.300	metre	517.00	5325.00

25	9.176	35 mm thick factory made Solid panel PVC Door shutter made out of single piece extruded solid PVC profiles, 5mm (±0.2mm) thick, having styles and rails (except lock rail) of size 95 mmx 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm x 20 mm x 1 mm, joints of styles and rails to be mitered cut and joint with the help of PVC solvent cement, self driven self tapping screws and M.S. rectangular pipes bracket of size 190 mm x100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5mm thick solid PVC Lock rail of size 115 mm x 35 mm x 35 mm, out of which 95 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles and rails with the help of solvent and self driven self tapping screws of 125				
	9.176.1	Non decorative finish (matt finish).				
		TOTAL	3.150	sqm	2037.00	6417.00
26	13.54	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
	13.54.1	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/ 10 sqm of approved brand or manufacture				
		TOTAL	11.760	sqm	69.00	811.00
27	9.69	Providing and fixing ISI marked stainless steel handles with necessary screws etc. complete :				
	9.69.1	125 mm				
		TOTAL	6.000	Each	60.00	360.00
28	9.66	Providing and fixing ISI marked stainless steel tower bolt black finish, (Barrel type) with necessary screws etc. complete :				
	9.66.1	250x10 mm				
		TOTAL	3.000	Each	148.00	444.00
	9.66.2	200x10 mm				
		TOTAL	2.000	Each	93.00	186.00
29	9.93	Providing and fixing Chromium plated brass hanging type floor door stopper with necessary screws, etc. complete.				
		TOTAL	3.000	Each	92.00	276.00
30	9.65	Providing and fixing ISI marked stainless steel sliding door bolts with nuts and screws etc. complete:				
a	9.65.1	300x16 mm				
		TOTAL	2.000	Each	389.00	778.00
b	9.65.2	250x16 mm				
		TOTAL	4.000	Each	326.00	1304.00
		Steel Work				
31	10.12	Providing and fixing pressed steel door frames made of 1.6 mm thick steel profile conforming to IS: 4351 manufactured from commercial mild steel sheet including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.60 mm pressed mild steel welded or rigidly fixed together by mechanical means, including 2.5mm thick M.S. pressed butt hinges, with mortar guards, lock strike-plate and shock absorbers as specified filling the frame with Cement Concrete 1:3:6 at site before fixing (cost of concrete to be paid separately) fixing with adjustable lugs (200 mm long & 1.0 mm thick) and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:				
	10.12.2	Profile C of 1.60mm thick single rebate of size 100mmx50mm				
	10.12.2.1	Fixing with adjustable lugs with split end tail to each jamb.				
		TOTAL	32.000	M	431.00	13792.00
32	9.43	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
	9.43.2	Fixed to openings /wooden frames with rawl plugs screws etc.				
		TOTAL	151.200	Kg	128.00	19354.00

33	13.54	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
	13.54.2	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand or manufacture.				
		TOTAL	5.04	SQM	71.00	358.00
		Aluminium work				
34	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
a	21.1.1	For fixed portion.				
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)				
		TOTAL	19.656	Kg	416.00	8177.00
b	21.1.2	For shutters of doors, windows and ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).				
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)				
		For Window W1	4.992			
		For Window W2	4.368			
		For Window W3	2.340			
		For Ventilation V1	1.404			
		TOTAL	13.104	Kg	484.00	6342.00
35	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item) :				
a	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10 kg/sqm)				
		TOTAL	5.040	Sqm	774.00	3901.00
36	21.4	Add extra for providing and fixing froasted glass instead of float glass				
	21.4.1	With glass panes of 4.0 mm thickness (weight not less than 10 kg/sqm)				
		TOTAL	5.040	Sqm	259.00	1305.00
37	9.124	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.				
	9.124.2	With 12 mm mild steel U beading.				
		TOTAL	5.040	Sqm	1370.00	6905.00
		Flooring Work				
38	11.36	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 sand) 25 mm thick.(Area of slab to be over 0.25 sqm)				
		TOTAL	25.455	Sqm	1174.00	29884.00
39	11.38	Kota stone slabs in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.				

	11.38.2	20 mm thick				
		TOTAL	10.02	Sqm	1177.00	11794.00
40	11.47	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.				
		TOTAL	7.200	Meter	139.00	1001.00
41	11.48	Extra for Kota stone/ sand stone in treads of steps and risers using single length upto 1.05 metre.				
		TOTAL	3.420	Sqm	10.00	34.00
42	11.22	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish wherever required etc. complete at all levels. Samples approved by Engineer-in- Charge.				
	11.22.2	Granite fine grained dark crystal of other colours and various patterns				
		TOTAL	4.313	Sqm	2356.00	10161.00
43	11.40	Providing edge moulding to 18mm thick marble stone counters, Vanities, window sills etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	11.40.2	Granite Work				
		TOTAL	24.700	RM	269.00	6644.00
44	11.49	Providing and laying Ceramic glazed floor tiles 300x300 mm or more (having thickness 6 to 7mm) of 1st quality conforming to IS : 15622 of approved make in any colours and shade laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 sand) including pointing the joints with white cement and matching pigment etc., complete.				
		TOTAL	2.640	sqm	670.00	1769.00
45	11.50	Providing and fixing Ceramic glazed wall tiles 300x450 mm or more (having thickness 6 to 7 mm) of 1st quality conforming to IS: 15622 of approved make in all Colours& shades, except burgundy, bottle green, black laid on 12mm thick bed of Cement Mortar 1:3 (1 Cement: 3 sand)prepad same day when mortar is still green jointed with grey cement slurry @3.3 kg per sqm including pointing the joints with white cement and matching pigments etc., complete.				
		TOTAL	23.790	sqm	776.00	18461.00
		WaterProofing				
46	22.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.				
		Toilet- Male & Female on GF & FF	6.480			
		TOTAL	6.480	Sqm	207.00	1341.00
47	2.26	Supplying and filling in plinth with crusher stone dust / coarse sand under floors including, watering, ramming and compacting in layers not exceeding 20cm in depth and dressing complete Note: - Maximum thickness of this layer shall be 20 cm.				
		TOTAL	0.720	cum	672.00	484.00

48	22.6	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying : a) After surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. b) Laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. c) Third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around.				
		For Terrace Floor				
		TOTAL	36.000	Sqm	338.00	12168.00
49	22.14	Grading roof for receiving water proofing treatment with				
	22.14.1	Cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size)				
		TOTAL	2.700	Cum	6569.00	17736.00
		Sanitary & Water Supply				
50	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings. This included jointing of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer-in- Charge. External Work				
	18.7.6	50 mm nominal outer dia .Pipes.				
		TOTAL	10	M	498.00	4980.00
51	18.6	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge.				
a	18.6.1	Internal work - Exposed on wall				
i	18.6.1.5	40 mm nominal outer dia .Pipes.				
		TOTAL	12	M	354.00	4248.00
ii	18.6.1.6	50 mm nominal outer dia .Pipes.				
		TOTAL	6	M	528.00	3168.00
b	18.6.2	Concealed work including cutting chases and making good the walls etc.				
i	18.6.2.1	15 mm nominal outer dia .Pipes.				
		TOTAL	5	M	207.00	1035.00
ii	18.6.2.2	25 mm nominal outer dia .Pipes.				
		TOTAL	20	M	288.00	5760.00
iii	18.6.2.3	32 mm nominal outer dia .Pipes.				
		TOTAL	8	M	360.00	2880.00
52	18.13	Providing and fixing CPVC gate valve with knob of approved quality.				
a	18.13.1	25 mm nominal bore.				
		TOTAL	1	Each	428.00	428.00
b	18.13.2	32 mm nominal bore.				
		TOTAL	1	Each	500.00	500.00
c	18.13.3	40 mm nominal bore.				
		TOTAL	1	Each	584.00	584.00
d	18.13.4	50 mm nominal bore.				
		TOTAL	1	Each	749.00	749.00
53	17.58	Providing and fixing unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type B including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Single socketed pipes for working pressure of 4 kg/sqcm. (minimum wall thickness 3.2mm)				
a	17.58.1	75 mm diameter				
		TOTAL	12	RM	136.00	1632.00
b	17.58.2	110 mm diameter				
		TOTAL	20	RM	238.00	4760.00

54	17.59	Providing and fixing unplasticised PVC moulded fittings/ accessories for unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
a	17.59.	Coupler				
	17.59.1.1	75 mm				
		TOTAL	4	Each	117.00	468.00
	17.59.1.2	110 mm				
		TOTAL	4	Each	154.00	616.00
b	17.59.	Single tee with door				
	17.59.3.1	75x75x75 mm				
		TOTAL	2	Each	219.00	438.00
	17.59.3.2	110x110x110 mm				
		TOTAL	2	Each	346.00	692.00
c	17.59.4	Single tee without door				
	17.59.4.1	75x75x75 mm				
		TOTAL	2	Each	201.00	402.00
	17.59.4.2	110x110x110 mm				
		TOTAL	2	Each	266.00	532.00
d	17.59.5	Bend 87.50				
	17.59.5.1	75 mm bend				
		TOTAL	5	Each	117.00	585.00
	17.59.5.2	110 mm bend				
		TOTAL	5	Each	172.00	860.00
55	Rajastha n PWD - BSR-	P&F rigid PVC pipe fittings (IS: 4985 mark) of approved quality /make including joining the pipe with solvent cement rubber ring and lubricant:				
a	3.17.5	Door 'Y'				
	i	75 mm				
		TOTAL	2	Each	153.00	306.00
	ii	110 mm				
		TOTAL	2	Each	188.10	376.00
b	3.17.7	Double Door 'Y'				
	i	75 mm				
		TOTAL	2	Each	187.20	374.00
	ii	110 mm				
		TOTAL	2	Each	319.50	639.00
c	3.17.10	Door Bend (Top Side)				
	i	75 mm				
		TOTAL	2	Each	108.00	216.00
	ii	110 mm				
		TOTAL	2	Each	126.00	252.00
d	3.17.12	Vent Cowel				
	i	75 mm				
		TOTAL	3	Each	35.10	105.00
	ii	110 mm				
		TOTAL	3	Each	45.90	138.00
56	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, UPVC 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 :				
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.				
		WC				
		TOTAL	1	Each	2995.00	2995.00
57	17.11	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 :				
a	17.11.3	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps.				
		TOTAL	1	Each	1938.00	1938.00
58	17.14	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :				
	17.14.2	Kitchen sink without drain board				
	17.14.2.3	470x420 mm bowl depth 178 mm.				
		For Kitchen	1			
		TOTAL	1	Each	3422.00	3422.00

59	17.67	Providing and fixing bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.				
		For Ground Floor Toilet				
		TOTAL	0.54	Sqm	2440.00	1318.00
60	17.64	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.64.2	Flexible pipe (only in residential & complexes)				
	17.64.2.1	32mm Dia.				
		For Ground Floor				
		TOTAL	2	Each	87.00	174.00
61	17.61	Providing and fixing UPVC trap of self cleaning design complete. Including cost of cutting and making good the wall and floors. 100 mm inlet and 75 mm outlet				
		For Ground Floor				
		TOTAL	4	Each	517.00	2068.00
62	18.37	Providing and fixing C.P. brass pillar cock approved quality and make conforming to IS: specification. 15 mm nominal bore 125 mm long foam flow.				
		For Labs				
		TOTAL	2	Each	1188.00	2376.00
63	18.35	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15 mm nominal bore				
		For Basin				
		For all Toilet				
		TOTAL	2	Each	714.00	1428.00
64	18.17	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	18.17.1	30 cm length				
	18.17.1.1	15 mm nominal bore				
		TOTAL	4	Each	88.00	352.00
65	18.31	Providing and fixing C.P. brass bib cock of approved quality conforming to IS: 8931, 15 mm nominal bore.				
		For all Toilets,Drinking Water area				
		TOTAL	5	Each	840.00	4200.00
66	18.34	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS: 8931. 15 mm nominal bore.				
		For Toilets				
		TOTAL	2	Each	1155.00	2310.00
67	18.14	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
	18.14.3	25 mm nominal bore				
		For water tanks				
		TOTAL	1	Each	499.00	499.00
68	18.28	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				
		For water tanks				
		TOTAL	1000	per	7.00	7000.00
		Sewage line work				
69	19.9	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 sand) R.C.C. top slab with Cement Concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design				

a	19.9.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg)				
	19.9.1.1	With well burnt bricks				
		TOTAL	2	Each	7997.00	15994.00
b	19.10	Extra for depth for manholes				
i	19.10.1	Size 90x80 cm				
	19.10.1.1	With well burnt bricks	2	Metre	6176.00	12352.00
70	19.8	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 sand) including testing of joints etc. complete :				
a	19.8.3	250 mm dia. R.C.C. pipe				
		Sewage line				
		TOTAL	10	Metre	385.00	3850.00
b	19.8.4	300 mm dia. R.C.C. pipe				
		Sewage line				
		TOTAL	10	Metre	480.00	4800.00
Total cost of Civil Work of Chaukidar Quarter						1095442
GUARD ROOM ELECTRICAL WORK						
S. N.	SOR CODE	DESCRIPTION OF ITEM	UNIT	QTY.	RATE	AMOUNT
1	4.1	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints etc. as required as per specification for :- (Using Modular Accessories)				
	4.1.1	Light Point/Fan Points.				
	4.1.1.1	Short point	Each	2	451.00	902.00
	4.1.1.2	Medium point	Each	5	830.00	4150.00
	4.1.1.3	Long point	Each	3	1300.00	3900.00
	4.1.3	3 Pin 6 Amp socket outlet on Separate Board				
	4.1.3.2	Medium point	Each	1	990.00	990.00
	4.1.3.3	Long point	Each	1	1515.00	1515.00
2	4.2	Point wiring (excluding metallic switch box & sheet but including switches, sockets) for 3 pin 6 Amp. socket outlet point with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board.	Each	2	265.00	530.00
3	4.3	Wiring for circuit wiring with PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) of ISI marked suitable size etc. as required as per specification				
	4.3.1	2x2.5 Sq.mm.	Metre	25	139.00	3475.00
	4.3.2	4x2.5 Sq.mm.	Metre	10	224.00	2240.00
	4.3.3	6x2.5 Sq.mm.	Metre	2	288.00	576.00
4	9.1	Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size etc. with 20/16 Amp. F.T. switch & socket/S.S. combined 20/16/6 Amp. of ISI marked and 4sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per specification for :-				
	9.1.1	On separate board				
	9.1.1.3	Long Point	Each	1	2612.00	2612.00
5	16.1	Supply and fixing PVC conduit ISI marked FRLS along with the accessories in concealed system etc. as required				
	16.1	PVC Conduit 20 mm (HMS)	Metre	20	61.00	1220.00
	16.2	PVC Conduit 25 mm (HMS)	Metre	20	74.00	1480.00
6	18.2	Supplying and fixing of approved make modular type G.I. metal box 1.2mm minimum thick and depth 50mm for single row boxes and 60mm depth for two/three row boxes earth terminal stud with nut and washer with modular base and cover plate including fixing in concealed etc. as required for:-				
	18.2.2	3 Module	Each	1	216.00	216.00
	18.2.4	6 Module	Each	1	309.00	309.00
	18.2.5	8 Module	Each	1	373.00	373.00
	18.2.6	12 Module	Each	1	502.00	502.00

7	19.1	Supplying and drawing single core PVC insulated cable FRLS with copper multi strand conductor ISI marked in existing rigid PVC casing and capping/conduit in surface or concealed as per specification.				
	19.1.1	1.5 sq. mm. wire				
	19.1.1.3	3 X 1.5 sq mm	Metre	10	56.00	560.00
	19.1.2	2.5 sq. mm. wire				
	19.1.2.1	1 X 2.5 sq mm	Metre	5	30.00	150.00
	19.1.2.2	2 X 2.5 sq mm	Metre	10	60.00	600.00
	19.1.3	4.0 sq. mm. wire				
	19.1.3.2	2 X 4.0 sq mm	Metre	5	90.00	450.00
8	23.1	Wiring for sub-mains with PVC insulated cable FRLS with copper multi strand conductor ISI marked in recessed/concealed rigid PVC conduit (HMS) FRLS ISI marked of suitable size (conduit included) including 2mm thick accessories, connection etc, as required as per specification. (Refer General Notes for Classification of Conduit Wiring Point No.11)				
	23.1.1	2 Wire Submain				
	23.1.1.2	4.0 sq mm cable in 25 mm conduit	Metre	50	219.00	10950.00
9	27.8	Supply of ISI marked and accepted standard of miniature circuit breaker (MCB) of 'C' series with short circuit indication, suitable for 240/415 Volts, 50 Cycle, 10 kA/15 kA Value AC supply conforming to IS : 8828 : 1996, IEC : 60898 :2002 & 60947-2 but without enclosures :-				
	27.8.1	SINGLE POLE (SP)				
	27.8.1.2	6Amp to 32Amp 10kA rating	Each	6	263.00	1578.00
	27.8.2	DOUBLE POLE (DP)				
	27.8.2.3	For 40Amp 10kA rating	Each	1	1329.00	1329.00
10	27.11	Supply of approved make powder coated sheet steel enclosure SPN MCB DB inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator)-				
	27.11.4	6 Way double door IP 43 protection	Each	1	1846.00	1846.00
11	28.4	Fixing of MCB/MCCB/Isolator in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (labour only)				
	28.4.1	MCB / Isolator SP/DP	Each	6	22.00	132.00
12	28.5	Labour charges for fixing sheet steel enclosure, MCB DB surface mounting type, as per accepted practice on 25x5mm flat iron clamps duly embedded in wall, cable connection etc. complete.				
	28.5.2	27.11.5 & 27.12.1 to 27.12.2	Each	1	545.00	545.00
13	29.25	Supply and fixing of approved make step type modular electronic fan regulator including connection etc. as required on existing board				
	29.25.2	100 Watt (2 Module)	Each	1	484.00	484.00
14	30.1	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete of approved as required confirming to IS :374/2019 with upto date amendments.				
	30.1.2	Ceiling Fan (ISI marked)-1200 mm Sweep, with minimum air delivery 210 m ³ /min and service value ≥ 4.00 as per BEE..	Each	1	2292.00	2292.00
15	30.2	Supplying, erection and testing of approved make wall mounting fan oscillating type with base, blades, guard, speed regulator etc. AC 230-250 volts with connections and including raw bolt/anchor hole fastener etc. complete finished and as required.				
	30.2.2	400 sweep	Each	1	2810.00	2810.00
16	30.6	Supplying, erecting and testing of approved make exhaust fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/anchor hole fasteners etc. complete finished and as required.				
	30.6.1	300mm sweep RPM 900 /1400	Each	1	2571.00	2571.00
17	31.3	Supply and fixing Led tube rod comprising of LED tube with non- integral/integral driver, upto 6500K color temp having 40000 burning hrs life with minimum @ L 70, system lumen output should be minimum with system efficacy> 100 lm/Watt. LED driver PF> 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347/c connection wire, testing etc. to complete the job.				
	31.3.1	Tube light LED 1 X 8/10Watt Integral i/c batten aluminium body, PC diffuser.	Each	1	502.00	502.00
	31.3.4	Tube light LED 1 X 20/22Watt, Integral i/c batten aluminium body, PC diffuser.	Each	4	782.00	3128.00

18	32.3	Providing and fixing circular/hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm 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/M.S. sheet box by mean of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of 12mm dia M.S. bar bent to shape as per standard drawing.	Each	1	90.00	90.00
19	37.39	Supplying and drawing PVC insulated copper cable (Earth Continuity Conductor) of Green colour FR with copper multi strand conductor ISI marked in existing conduit along with other wires as required as per specification :				
	37.39.1	4 Sq mm	Meter	25	52.00	1300.00
20	38.1	Supplying and drawing co-axial T.V. cable RG 6 Grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tined copper braid and protected with PVC sheathed in existing	Metre	20	30.00	600.00
21	38.2	Supplying and drawing following pair, 0.5 mm PVC insulated copper conductor unarmoured telephone cable in existing surface/concealed, steel/PVC conduit as required.				
	38.2.2	Telephone wire 0.5 mm, 2 Pair	Metre	15	36.00	540.00
22	38.6	Supply, fixing and testing of RJ 11 telephone jack modular (1Module)	Each	1	174.00	174.00
23	38.8	Supply, fixing and testing of T.V. Outlet Modular (1Module)	Each	1	175.00	175.00
24	38.9	Supply, installation testing and commissioning RJ - 45 computer jack cat 6 with shutter modular (1Module)				
	38.9.1	RJ - 45 computer socket cat 6 with shutter modular (1Module)	Each	1	288.00	288.00
25	38.12	Supplying and drawing 4 pair shielded twisted pair (STP), 0.5 mm PVC insulated copper conductor un-armoured Cat-6 computer cable FRLS in existing surface/concealed, steel/PVC. conduit/ casing-n-capping as required.	Metre	10	104.00	1040.00
26	41.12	Supplying & installing G.I. pipe for protection of underground cable fixed on wall/support/in trench/fixed between two rigid existing support of wall/beam for erection of ceiling Fan/down rod for stiff pendent for light luminaries /fan/protective for earthing, lightening conductor down strip/overhead service line/for submersible cable or centrifugal pump for water supply with necessary iron clamp coupler, bend, tee, elbow, nuts and bolts etc. complete in an approved manner as required to complete excluding cost of excavation/dismantling & other finished masonry Item complete. For 'B' class pipe ISI marked (IS-1161- 68)				
	41.12.1.3	25.00mm.	Metre	25	291.00	7275.00
Total Cost of Internal Electrification Work						66399
TUBE WELL						
S. No.	SOR Item	Particulars of Items	Quantity	Unit	Rate in Rs.	Amount in Rs.
		Tube well				
1	16.1	Boring/drilling bore well of required dia perfectly vertical to receive casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire and running charges of all equipments, tools, plants and machineries required for the job, all complete as per direction of Engineer-in- Charge, upto 90 metre depth below ground level.				
	16.1.1	All types of soil upto 90 metre depth.				
	16.1.1.2	150 mm dia.				
		Total	90	meter	413.00	37170.00
2	16.4	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS: 4270, of reputed and approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire and labour charges, fittings and accessories, all complete, for all depths, as per direction of Engineer- in-Charge.				
	16.4.2	150 mm nominal size dia having minimum wall thickness 4.85 mm				
		Total	45	meter	1191.00	53595.00
3	16.5	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed /plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire and labour charges, fittings and accessories, all complete, for all depths, as per direction of Engineer-in-Charge.				
	16.5.2	150 mm nominal size dia.				
		Total	45	meter	1271.00	57195.00
4	16.6	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading and sizes as per actual requirement, all complete as per direction of Engineer-in-charge.				

		Total	5	cum	947.00	4735.00
5	16.7	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 (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level and draw down etc. by step draw down method, collecting water samples and getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire and labour charges of air compressor, tools and accessories etc., all as per requirement and direction of Engineer-in-Charge.				
		Total	8	hour	478.00	3824.00
6	16.8	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:				
	16.8.2	150 mm dia				
		Total	1	each	366.00	366.00
7	16.9	Providing and fixing M.S. clamp of required dia made of 100 x10 mm flat to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts and nuts of required size complete.				
	16.9.2	150 mm clamp.				
		Total	1	each	1129.00	1129.00
8	16.10	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS: 2800 (part I).				
	16.10.2	150 mm dia				
		Total	1	each	242.00	242.00
9	16.13	Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well. Filter of 32 mm dia meter.				
		Total	90	meter	386.00	34740.00
10	16.18	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M- 25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four no longitudinal and 9 nos cross sectional T.M.T. Hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineer-in- Charge.				
		Total	1	each	959.00	959.00
Total cost of Tube Well						193955
BOUNDARY WALL						
S.No.	SOR No.	DESCRIPTION OF ITEM	QTY.	UNIT		
1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth 1.5 m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil .				
		Excavation for Column Footing				
			99.900	Cum.	147.00	14685.00
2	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
	4.1.2	With 40 mm nominal size graded metal / stone aggregate.				
	4.1.2.1	M-15 Grade concrete.				
			11.844	Cum.	4403.00	52149.00
3	5.16	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . Note :- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and				
	5.16.6	Thermo-Mechanically Treated bars. (TMT/TMX) FE 500 or more conforming to IS 1786				
			3025.311	Kg.	80.00	242025.00
4	5.1	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	5.1.1	M-20 Grade Concrete				
			27.927	Cum.	6153.00	171835.00
5	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
6	5.9.1	Foundations, footings, bases of columns, etc. for concrete upto plinth level				
		For Footing				
			108.840	Sqm.	190.60	20745.00
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
	5.9.2	Walls (any thickness) in cluding attached pilasters butteresses, plinth beams and string courses etc.				
	5.9.2.1	Upto Plinth Level.				
			81.000	Sqm.	219.00	17739.00

7	2.27	Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20 cm in depth and dressing complete.				
	2.27.1	With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20 cm in thickness and dressing complete. (Note:-				
		Total Quantity	77.463	Cum.	331.00	25640.00
8	5.2	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and upto floor two level excluding cost of centering, shuttering, finishing and reinforcement:				
	5.2.1	M-20 Grade Concrete				
		For Columns above Plinth Level	8.316	Cum.	6231.00	51817.00
9	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
	5.9.6	Columns , Pillars , Piers , Abutments , Posts and Struts .				
		For Columns above Plinth Level	110.880	Sqm.	471.20	52247.00
10	6.7	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894- 2002 , in super structure above plinth level up to floor two level in :				
	6.7.1	Having 100 kg / cm2 average compressive strength.				
	6.7.1.2	Cement mortar 1:6 (1 cement : 6 sand)	48.600	Cum.	5162.00	250873.00
11	13.1	12 mm cement plaster of mix :				
	13.1.2	1 : 6 (1 cement : 6 sand)				
			247.800	Sqm.	160.00	39648.00
12	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
	13.2.2	1 : 6 (1 cement : 6 sand)				
			247.800	Sqm.	168.00	41630.00
13	13.43	White washing with lime to give an even shade : New work (three or more coats).				
			495.600	Sqm.	11.00	5452.00
14	13.49	Wall painting by any mechanical or manual means with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre. of approved brand and manufacture, including applying additional coats wherever required to achieve even shade.				
			495.600	Sqm.	90.00	44604.00
Total cost of Boundary Wall						1031089
SEPTIC TANK						
1	2.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. in all kinds of soil.				
		TOTAL	0.235	100/S	803	189.00
2	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil				
		All kinds of soil				
		TOTAL	28.980	Cum	147	4260.00
3	2.25	Extra for every additional lift of 1.5 m or part thereof in excavation. (No extra lift is payable if work is done by mechanical means)				
	2.25.1	All kinds of soil.				
		PCC Work				
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
	4.1.1.4	M-10Nominal (Mix-1 Cement : 3 sand : 6 graded stone aggregate)				
		TOTAL	1.092	Cum	3890.00	4248.00
		RCC Work Upto Plinth level				
5	5.1	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	5.1.1	M 20 –Grade Concrete				
		TOTAL	10.22	Cum	6153.00	62884.00
		STEEL				

	5.16	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")				
	5.16.6	Thermo-Mechanically Treated bars.FE 500 or more conforming to IS 1786	955.57			
			955.57	Cum	77.00	73579.00
6	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
a	5.9.1	Foundations, footings, bases of columns, etc. for concrete upto plinth level				
		TOTAL	1.36	Sqm	190.60	259.00
b	5.9.2	Walls (any thickness) including attached pilasters buttresses, plinth beams and string courses etc.				
	5.9.2.1	Upto plinth level.				
		TOTAL	68.64	Sqm	219.00	15032.00
c	5.9.3	Suspended floors, roofs, landings, balconies and access platform.				
		TOTAL	17.46	Sqm	439.60	7675.00
		Septic Tank Accessories				
7	19.21	Providing and fixing in position precast R.C.C. manhole cover and frame of required shape and approved quality				
	19.21.1.1	Rectangular shape 600x450mm internal dimensions				
		TOTAL	2	Each	1229.00	2458.00
8	19.18	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to withstand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.				
		TOTAL	20	Each	266.00	5320.00
		Soak pit				
9	19.30	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks of class designation 75 and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.				
	19.30.1	With well burnt bricks	1			
		TOTAL	1	Each	20609.00	20609.00
Total cost of Civil Work of septic tank of Ashram Building						196513

ABSTRACT					
1		Total Cost of Civil Work			15,678,693
2		Internal Water supply ,Plumbing and Sanitary			1,234,456
3		Internal Electrification			794,916
4		External Electrification			669,224
5		Guard Room			1,095,442
6		Electric Work Guard Room			66,399
7		Tube Well			193,955
8		Boundary Wall			1,031,089
9		Septic Tank			196,513
		Total			20,960,687
				Say Rs.	209.61



Sub-Engineer
Tribal Affair Department
Chhindwara, MP

Assistant-Engineer
Tribal Welfare Department
Chhindwara, MP