

TS Register No: 1277/2019-2020

AS Register No:665/2019-2020

UP-GRADATION OF GOVT ITI MALAMPUZHA ON PAR WITH INTERNATIONAL STANDARDS- MAIN BUILDING,SUMP TANK AND FRONT GATE-PHASE 1- REV-2

Detailed Estimate

(Dsr year: **2016**, Cost Index Applied for this estimate is **31.06%**)

Sl No	Description	No	L	B	D	CF	Quantity	Remark
<b>1 MAIN BUILDING CIVIL WORKS</b>								
1	2.6.1 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 disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil							
<b>FOOTING EXCAVATION</b>								
	F1	8	2.300	2.300	3.100		131.192	
	F2	30	2.800	2.800	3.100		729.120	
	F3	22	3.300	3.300	3.100		742.698	
	F4	13	3.800	3.800	3.100		581.932	
	F5	5	3.800	3.800	3.100		223.821	
	F6	4	4.300	4.300	3.100		229.276	
	F7	1	4.800	2.800	3.100		41.664	
	F8	2	4.800	2.800	3.100		83.328	
	F9	2	4.700	2.800	3.100		81.592	
	F10	1	2.800	2.800	3.100		24.304	
	F11	3	3.800	3.800	3.100		134.292	
	F12	2	3.300	3.300	3.100		67.518	
	F13	1	4.700	3.700	3.100		53.910	
	F14	1	3.700	2.900	3.100		33.264	
	F15	1	3.700	2.800	3.100		32.116	
	F16	2	3.100	2.700	3.100		51.895	
	F17	2	3.800	2.800	3.100		65.968	
	F18	1	4.700	3.700	3.100		53.910	
	LIFT L1	1	7.300	8.050	3.100		182.172	
	LIFT L2	1	6.700	7.000	3.100		145.390	

		Total Quantity					3689.362 cum
		Total Deducted Quantity					0.000 cum
		Net Total Quantity					3689.362 cum
		Say 3689.362 cum @ Rs 165.07 / cum					<b>Rs 609002.99</b>
2	2.26.1 Extra for every additional lift 1.5 m or part there of in excavation / banking excavated or stacked materials.All kinds of soil						
	FOOTING EXCAVATION						
	F1	8	2.300	2.300	1.600	67.712	
	F2	30	2.800	2.800	1.600	376.320	
	F3	22	3.300	3.300	1.600	383.328	
	F4	13	3.800	3.800	1.600	300.352	
	F5	5	3.800	3.800	1.600	115.520	
	F6	4	4.300	4.300	1.600	118.336	
	F7	1	4.800	2.800	1.600	21.504	
	F8	2	4.800	2.800	1.600	43.008	
	F9	2	4.700	2.800	1.600	42.112	
	F10	1	2.800	2.800	1.600	12.544	
	F11	3	3.800	3.800	1.600	69.312	
	F12	2	3.300	3.300	1.600	34.848	
	F13	1	4.700	3.700	1.600	27.824	
	F14	1	3.700	2.900	1.600	17.169	
	F15	1	3.700	2.800	1.600	16.576	
	F16	2	3.100	2.700	1.600	26.785	
	F17	2	3.800	2.800	1.600	34.048	
	F18	1	4.700	3.700	1.600	27.824	
	LIFT L1	1	7.300	8.050	1.600	94.024	
	LIFT L2	1	6.700	7.000	1.600	75.040	
		Total Quantity					1904.186 cum
		Total Deducted Quantity					0.000 cum
		Net Total Quantity					1904.186 cum
		Say 1904.186 cum @ Rs 67.82 / cum					<b>Rs 129141.89</b>
3	2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not						

exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.							
PLINTH FILLING							
BELOW S1	1	506.470		.6-.3-.1		101.294	
BELOW PCC	1	1298.330		.6-.1		649.165	
FOOTING EXCAVATION							
F1	8	2.300	2.300	3.100		131.192	
F2	30	2.800	2.800	3.100		729.120	
F3	22	3.300	3.300	3.100		742.698	
F4	13	3.800	3.800	3.100		581.932	
F5	5	3.800	3.800	3.100		223.821	
F6	4	4.300	4.300	3.100		229.276	
F7	1	4.800	2.800	3.100		41.664	
F8	2	4.800	2.800	3.100		83.328	
F9	2	4.700	2.800	3.100		81.592	
F10	1	2.800	2.800	3.100		24.304	
F11	3	3.800	3.800	3.100		134.292	
F12	2	3.300	3.300	3.100		67.518	
F13	1	4.700	3.700	3.100		53.910	
F14	1	3.700	2.900	3.100		33.264	
F15	1	3.700	2.800	3.100		32.116	
F16	2	3.100	2.700	3.100		51.895	
F17	2	3.800	2.800	3.100		65.968	
F18	1	4.700	3.700	3.100		53.910	
LIFT L1	1	7.300	8.050	3.100		182.172	
LIFT L2	1	6.700	7.000	3.100		145.390	
FOOTING PCC							
F1	8	2.000+.2	2.000+.2	0.100		-3.873	
F2	30	2.500+.2	2.500+.2	0.100		-21.871	
F3	22	3.000+.2	3.000+.2	0.100		-22.529	
F4	13	3.500+.2	3.500+.2	0.100		-17.798	
F5	5	3.500+.2	3.500+.2	0.100		-6.846	
F6	4	4.000+.2	4.000+.2	0.100		-7.057	

F7	1	4.500+.2	2.500+.2	0.100		-1.270	
F8	2	4.500+.2	2.500+.2	0.100		-2.539	
F9	2	4.400+.2	2.500+.2	0.100		-2.485	
F10	1	2.500+.2	2.500+.2	0.100		-0.730	
F11	3	3.500+.2	3.500+.2	0.100		-4.108	
F12	2	3.000+.2	3.000+.2	0.100		-2.049	
F13	1	4.400+.2	3.400+.2	0.100		-1.657	
F14	1	3.400+.2	2.600+.2	0.100		-1.009	
F15	1	3.400+.2	2.500+.2	0.100		-0.973	
F16	2	2.800+.2	2.400+.2	0.100		-1.561	
F17	2	3.500+.2	2.500+.2	0.100		-1.999	
F18	1	4.400+.2	3.400+.2	0.100		-1.657	
LIFT L1	1	7.000+.2	7.750+.2	0.100		-5.724	
LIFT L2	1	6.400+.2	6.700+.2	0.100		-4.555	
FOOTING							
F1	8	2.000	2.000	0.400		-12.800	
F2	30	2.500	2.500	0.400		-75.000	
F3	22	3.000	3.000	0.500		-99.000	
F4	13	3.500	3.500	0.500		-79.625	
F5	5	3.500	3.500	0.700		-42.875	
F6	4	4.000	4.000	0.800		-51.200	
F7	1	4.500	2.500	0.450		-5.063	
F8	2	4.500	2.500	0.450		-10.125	
F9	2	4.400	2.500	0.450		-9.900	
F10	1	2.500	2.500	0.400		-2.500	
F11	3	3.500	3.500	0.700		-25.725	
F12	2	3.000	3.000	0.500		-9.000	
F13	1	4.400	3.400	0.800		-11.969	
F14	1	3.400	2.600	0.750		-6.630	
F15	1	3.400	2.500	0.650		-5.525	
F16	2	2.800	2.400	0.400		-5.376	
F17	2	3.500	2.500	0.600		-10.500	
F18	1	4.400	3.400	0.900		-13.464	

	LIFT L1	1	7.000	7.750	1.100		-59.676		
	LIFT L2	1	6.400	6.700	1.100		-47.169		
	LIFT PIT								
	LIFT PIT L1	1	2.400	2.800	1.800		-12.096		
	LIFT PIT L2	1	2.000	2.400	1.800		-8.640		
	STUB COLUMN								
	C1	37	0.300	0.600	1.900		-12.654		
		7	0.300	0.600	2.150		-2.709		
		8	0.300	0.600	1.800		-2.592		
		1	0.300	0.600	2.100		-0.378		
	c2	4	0.300	0.600	1.900		-1.368		
		1	0.300	0.600	1.800		-0.324		
		1	0.300	0.600	2.100		-0.378		
	c3	1	0.450	0.600	1.800		-0.487		
	c4	1	0.450	0.600	1.900		-0.513		
		2	0.450	0.600	1.800		-0.973		
	c5	1	0.450	0.600	2.150		-0.581		
		3	0.450	0.600	2.100		-1.701		
		18	0.450	0.600	1.900		-9.234		
		15	0.450	0.600	1.800		-7.291		
	c7	2	0.450	0.700	1.800		-1.135		
	c8	1	0.450	0.700	1.800		-0.568		
		1	0.450	0.700	1.900		-0.599		
	c9	1	0.450	0.700	1.900		-0.599		
	Total Quantity						4439.821 cum		
	Total Deducted Quantity						-760.232 cum		
	Net Total Quantity						3679.589 cum		
	Say 3679.589 cum @ Rs 164.81 / cum						<b>Rs 606433.06</b>		
4	4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)								
	FOR RC GRADE SLAB								

	FOR S3	1	506.470		0.100		50.648	LENGTH = AREA
FOR GRADE BEAM								
	B1	1	280.400	.3+.2	0.100		14.020	
	B1	1	666.500	.3+.2	0.100		33.325	
	B2	1	47.700	.3+.2	0.100		2.386	
LOWER GROUND GRADE BEAM								
		1	71+65	0.500	0.100		6.801	
FOOTING PCC								
	F1	8	2.000+.2	2.000+.2	0.100		3.873	
	F2	30	2.500+.2	2.500+.2	0.100		21.871	
	F3	22	3.000+.2	3.000+.2	0.100		22.529	
	F4	13	3.500+.2	3.500+.2	0.100		17.798	
	F5	5	3.500+.2	3.500+.2	0.100		6.846	
	F6	4	4.000+.2	4.000+.2	0.100		7.057	
	F7	1	4.500+.2	2.500+.2	0.100		1.270	
	F8	2	4.500+.2	2.500+.2	0.100		2.539	
	F9	2	4.400+.2	2.500+.2	0.100		2.485	
	F10	1	2.500+.2	2.500+.2	0.100		0.730	
	F11	3	3.500+.2	3.500+.2	0.100		4.108	
	F12	2	3.000+.2	3.000+.2	0.100		2.049	
	F13	1	4.400+.2	3.400+.2	0.100		1.657	
	F14	1	3.400+.2	2.600+.2	0.100		1.009	
	F15	1	3.400+.2	2.500+.2	0.100		0.973	
	F16	2	2.800+.2	2.400+.2	0.100		1.561	
	F17	2	3.500+.2	2.500+.2	0.100		1.999	
	F18	1	4.400+.2	3.400+.2	0.100		1.657	
	LIFT L1	1	7.000+.2	7.750+.2	0.100		5.724	
	LIFT L2	1	6.400+.2	6.700+.2	0.100		4.555	
Total Quantity							219.470 cum	
Total Deducted Quantity							0.000 cum	
Net Total Quantity							219.470 cum	
Say 219.470 cum @ Rs 5869.06 / cum							<b>Rs 1288082.60</b>	

5	4.1.3 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)							
PCC FOR GROUND FLOOR SLAB								
SLAB	1	1298.340		0.100		129.834	LENGTH = AREA	
PCC FOR L/G/FLOOR SLAB								
	1	441.780		0.100		44.178		
DEDUCE BEAM	-1	71+65	0.300	0.100		-4.080		
Total Quantity						169.932 cum		
Total Deducted Quantity						0.000 cum		
Net Total Quantity						169.932 cum		
Say 169.932 cum @ Rs 7184.64 / cum						<b>Rs 1220900.24</b>		
6	4.3.1 Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations, footings, bases for columns							
FOR GRADE BEAM								
B1	2	280.400		0.100		56.080		
B1	2	666.500		0.100		133.300		
B2	2	47.700		0.100		9.541		
FOOTING PCC SIDES								
F1	7*4	2.000+.2		0.100		6.161		
F1	1*4	2.000+.2		0.100		0.881		
F2	21*4	2.500+.2		0.100		22.680		
F2	9*4	2.500+.2		0.100		9.720		
F3	12*4	3.000+.2		0.100		15.361		
F3	9*4	3.000+.2		0.100		11.521		
F3	1*4	3.000+.2		0.100		1.281		
F4	4*4	3.500+.2		0.100		5.921		
F4	9*4	3.500+.2		0.100		13.321		
F5	1*4	3.500+.2		0.100		1.481		
F5	4*4	3.500+.2		0.100		5.921		
F6	1*4	4.000+.2		0.100		1.681		
F6	3*4	4.000+.2		0.100		5.041		

	F7	1*2	4.500+.2+ 2.5+.2		0.100		1.481		
	F8	2*2	4.500+.2+ 2.5+.2		0.100		2.961		
	F9	2*2	4.400+.2+ 2.5+.2		0.100		2.921		
	F10	1*2	2.500+.2+ 2.5+.2		0.100		1.080		
	F11	3*4	3.500+.2		0.100		4.440		
	F12	2*4	3.000+.2		0.100		2.561		
	F13	1*2	4.400+.2+ 3.4+.2		0.100		1.640		
	F14	1*2	3.400+.2+ 2.6+.2		0.100		1.281		
	F15	1*2	3.400+.2+ 2.5+.2		0.100		1.260		
	F16	2*2	2.800+.2+ 2.4+.2		0.100		2.240		
	F17	2*2	3.500+.2+ 2.5+.2		0.100		2.561		
	F18	1*2	4.400+.2+ 3.4+.2		0.100		1.640		
	LIFT L1	1*2	7.000+.2+ 7.75+.2		0.100		3.030		
	LIFT L2	1*2	6.400+.2+ 6.7+.2		0.100		2.700		
	Total Quantity						331.688 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						331.688 sqm		
	Say 331.688 sqm @ Rs 254.19 / sqm						<b>Rs 84311.77</b>		
7	<p>5.33.1          Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level</p>								



FOOTING							
F1	8	2.000	2.000	0.400		12.800	
F2	30	2.500	2.500	0.400		75.000	
F3	22	3.000	3.000	0.500		99.000	
F4	13	3.500	3.500	0.500		79.625	
F5	5	3.500	3.500	0.700		42.875	
F6	4	4.000	4.000	0.800		51.200	
F7	1	4.500	2.500	0.450		5.063	
F8	2	4.500	2.500	0.450		10.125	
F9	2	4.400	2.500	0.450		9.900	
F10	1	2.500	2.500	0.400		2.500	
F11	3	3.500	3.500	0.700		25.725	
F12	2	3.000	3.000	0.500		9.000	
F13	1	4.400	3.400	0.800		11.969	
F14	1	3.400	2.600	0.750		6.630	
F15	1	3.400	2.500	0.650		5.525	
F16	2	2.800	2.400	0.400		5.376	
F17	2	3.500	2.500	0.600		10.500	
F18	1	4.400	3.400	0.900		13.464	
LIFT L1	1	7.000	7.750	1.100		59.676	
LIFT L2	1	6.400	6.700	1.100		47.169	
GRADE BEAM							
B1	1	280.540	0.300	.6-.3		25.249	
B1	1	270.000	0.300	0.600		48.600	
B2	1	47.700	0.300	0.300		4.293	
GRADE SLAB							
SLAB	1	314.000		0.300		94.200	LENGTH = AREA
	1	101.000		0.150		15.150	LENGTH = AREA
STUB COLUMN							
C1	37	0.300	0.600	1.900		12.654	
	7	0.300	0.600	2.150		2.709	

		8	0.300	0.600	1.800		2.592	
		1	0.300	0.600	2.100		0.378	
	c2	4	0.300	0.600	1.900		1.368	
		1	0.300	0.600	1.800		0.324	
		1	0.300	0.600	2.100		0.378	
	c3	1	0.450	0.600	1.800		0.487	
	c4	1	0.450	0.600	1.900		0.513	
		2	0.450	0.600	1.800		0.973	
	c5	1	0.450	0.600	2.150		0.581	
		3	0.450	0.600	2.100		1.701	
		18	0.450	0.600	1.900		9.234	
		15	0.450	0.600	1.800		7.291	
	c7	2	0.450	0.700	1.800		1.135	
	c8	1	0.450	0.700	1.800		0.568	
		1	0.450	0.700	1.900		0.599	
	c9	1	0.450	0.700	1.900		0.599	
LIFT PIT								
	LIFT PIT L1	1	7.000	0.200	1.750		2.450	
	LIFT PIT L2	1	2.800	0.200	1.150		0.644	
	LIFT PIT L2	1	5.800	0.200	1.750		2.030	
LOWER GROUND FLOOR GRADE BEAM								
		1	71+65	0.300	0.600		24.480	
							Total Quantity	844.302 cum
							Total Deducted Quantity	0.000 cum
							Net Total Quantity	844.302 cum
							Say 844.302 cum @ Rs 8448.78 / cum	<b>Rs 7133321.85</b>
8	5.33.2	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level						

GROUND FLOOR COLUMN								
C1	56	0.300	0.600	4.500		45.360		
c2	6	0.300	0.600	4.500		4.860		
c3	1	0.450	0.600	4.500		1.215		
c4	3	0.450	0.600	4.500		3.646		
c5	37	0.450	0.600	4.500		44.956		
c7	2	0.450	0.700	4.500		2.835		
c8	2	0.450	0.700	4.500		2.835		
c9	1	0.450	0.700	4.500		1.418		
FIRST FLOOR COLUMN								
C1	52	0.300	0.600	3.600		33.696		
c2	5	0.300	0.600	3.600		3.240		
c3	1	0.450	0.600	3.600		0.973		
c4	3	0.450	0.600	3.600		2.917		
c5	37	0.450	0.600	3.600		35.965		
c7	2	0.450	0.700	3.600		2.269		
c8	2	0.450	0.700	3.600		2.269		
c9	1	0.450	0.700	3.600		1.135		
GROUND FLOOR ROOF BEAM								
	1	302.000-50*2*.3	0.300	0.450		36.720		
	1	425.000-112*2*.15	0.300	0.150		17.613		
	1	407-94*2*.15	0.300	0.450-.15		34.093		
	1	52.000-4*2*.3	0.450	1.3-.15		25.669		
FIRST FLOOR ROOF BEAM								
	1	394-77*2*.3	0.300	0.600-.15		46.953		
	1	385.000-107*2*.15	0.300	0.300-.15		15.881		
	1	17.800	0.300	0.500		2.670		
	1	317.000-72*2*.15	0.300	0.300		26.586		

GROUND FLOOR ROOF SLAB								
		1	2070.000		0.150		310.500	LENGTH = AREA
FIRST FLOOR ROOF SLAB								
		1	1849.640		0.150		277.446	LENGTH = AREA
STAIRCASE GROUND FLOOR TYPE 2								
	FLIGHT 1 WAIST SLAB	2*1	2.660	2.000	0.150		1.596	
	FLIGHT 2 DITTO	2*1	4.380	2.000	0.150		2.628	
	FLIGHT 3 DITO	2*1	3.700	2.000	0.150		2.220	
	LANDING	2*2	1.900	2.000	0.150		2.280	
	STEPS	2*0.5*31	2.000	0.300	0.150		2.790	
	LANDING BEAM	2*1	2*7.4+6.2 +6.5	0.200	.45-.15		3.301	
GROUND FLOOR STAIRCASE TYPE 1								
	FLIGHT 1 WAIST SLAB	1	1.340	2.000	0.150		0.402	
	FLIGHT 2 WAIST SLAB	1	4.050	2.000	0.150		1.215	
	FLIGHT 3 WAIST SLAB	1	1.340	2.000	0.150		0.402	
	FLIGHT 4 WAIST SLAB	1	3.730	2.000	0.150		1.119	
	LANDING BEAM	3	1.900	2.000	0.150		1.710	
	STEPS	0.5*31	2.000	0.300	0.150		1.395	
	LANDING BEAM	1	2*6.5+2*4. 5	0.200	.45-.15		1.321	
STAIRCASE FIRST FLOOR TYPE 2								
	FLIGHT 1 WAIST SLAB	1	2.020	2.000	0.150		0.606	
	FLIGHT 2 DITTO	1	4.050	2.000	0.150		1.215	
	FLIGHT 3 DITO	1	2.020	2.000	0.150		0.606	
	LANDING	2	1.900	2.000	0.150		1.140	
	STEPS	0.5*26	2.000	0.300	0.150		1.170	

	LANDING BEAM	1	2*7.4+6.2 +6.5	0.200	.45-.15		1.651	
STAIRCASE FIRST FLOOR TYPE 3								
	FLIGHT 1 WAIST SLAB	1	4.090	2.000	0.150		1.227	
	FLIGHT 2 DITTO	1	3.690	2.000	0.150		1.107	
	LANDING	1	4.000	2.200	0.150		1.320	
	STEPS	0.5*22	2.000	0.300	0.150		0.990	
	LANDING BEAM	1	4.000	0.200	.45-.15		0.241	
RC PARAPETT								
	FIRST FLOOR	1	178.700	1.440	0.100		25.733	
	TERRACE	1	188.00000	1.450	0.100		27.260	
FIRST FLOOR SUNSHADE								
		1	18*1.56+2 8.62		0.100		5.671	LENGTH = AREA
STAIR ROOM COVER SLAB								
		1	60.64+34. 96		0.100		9.560	LENGTH = AREA
LIFT WALL GROUND FLOOR								
	LIFT PIT L1	1	7.000	0.200	4.500		6.301	
	LIFT PIT L2	1	2.800	0.200	4.65-.6		2.269	
	LIFT PIT L2	1	5.800	0.200	4.65-.15		5.220	
LIFT WALL FIRST FLOOR								
	LIFT PIT L1	1	7.000	0.200	3.75-.15		5.041	
	LIFT PIT L2	1	2.800	0.200	3.75-.6		1.764	
	LIFT PIT L2	1	5.800	0.200	3.75-.15		4.176	
LINTEL GROUND FLOOR								
	GROUND FLOOR	2	591.000	0.200	0.150		35.460	
FIRST FLOOR LINTEL								
	LINTEL FIRST FLOOR	2	457.400	0.200	0.150		27.444	
LOWER GROUND FLOOR RET WALL								
		1	85.290	0.250	2.250		47.976	
L.G./F COLUMN								

	c1	18	0.300	0.600	2.700		8.748	
	c2	1	0.300	0.600	2.700		0.486	
	c5	9	0.450	0.600	2.700		6.562	
	c8	1	0.450	0.700	2.700		0.851	
	STAIRCASE L.G/F FLOOR TYPE 2							
	FLIGHT 1 WAIST SLAB	1	2.020	2.000	0.150		0.606	
	FLIGHT 2 DITTO	1	4.050	2.000	0.150		1.215	
	FLIGHT 3 DITO	1	2.020	2.000	0.150		0.606	
	LANDING	2	1.900	2.000	0.150		1.140	
	STEPS	0.5*26	2.000	0.300	0.150		1.170	
	LANDING BEAM	1	2*7.4+6.2 +6.5	0.200	.45-.15		1.651	
	LIFT WALL LOWER G/F FLOOR							
	LIFT PIT L1	1	5.400	0.200	3-.3		2.917	
	Total Quantity						1247.199 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						1247.199 cum	
	Say 1247.199 cum @ Rs 9501.92 / cum						<b>Rs 11850785.12</b>	
9	5.9.1 Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete							
	FOOTING							
	F1	7	2.000+2		0.400		11.201	
	F1	1	2.000+2		0.400		1.600	
	F2	2	2.500+2.5		0.400		4.000	
	F2	9	2.500+2.5		0.400		18.000	
	F3	12	3.000+3		0.500		36.000	
	F3	9	3.000+3		0.500		27.000	
	F3	1	3.000+3		0.500		3.000	
	F4	4	3.500+3.5		0.500		14.000	
	F4	9	3.500+3.5		0.500		31.500	
	F5	1	3.500+3.5		0.700		4.900	
	F5	4	3.500+3.5		0.700		19.600	

F6	1	4.000+4	0.800	6.400
F6	3	4.000+4	0.800	19.201
F7	1	4.500+4	0.450	3.825
F8	2	4.500+2.5	0.450	6.300
F9	2	4.400+2.5	0.450	6.211
F10	1	2.500+2.5	0.400	2.000
F11	3	3.500+3.5	0.700	14.700
F12	2	3.000+3	0.500	6.000
F13	1	4.400+3.4	0.800	6.241
F14	1	3.400+2.6	0.750	4.500
F15	1	3.400+2.5	0.650	3.836
F16	2	2.800+2.4	0.400	4.160
F17	2	3.500+2.5	0.600	7.200
F18	1	4.400+3.4	0.900	7.021
LIFT L1	1	7.000+7.7 5	1.100	16.226
LIFT L2	1	6.400+6.7	1.100	14.411
Total Quantity				299.033 sqm
Total Deducted Quantity				0.000 sqm
Net Total Quantity				299.033 sqm
Say 299.033 sqm @ Rs 254.19 / sqm				<b>Rs 76011.20</b>
10	5.9.6 Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts			
STUB COLUMN				
C1	37	1.800	1.900	126.540
	7	1.800	2.150	27.090
	8	1.800	1.800	25.920
	1	1.800	2.100	3.781
c2	4	1.800	1.900	13.680
	1	1.800	1.800	3.240
	1	1.800	2.100	3.781
c3	1	2.100	1.800	3.781
c4	1	2.100	1.900	3.990

		2	2.100		1.800		7.561	
	c5	1	2.100		2.150		4.515	
		3	2.100		2.100		13.230	
		18	2.100		1.900		71.820	
		15	2.100		1.800		56.700	
	c7	2	2.300		1.800		8.280	
	c8	1	2.300		1.800		4.140	
		1	2.300		1.900		4.370	
	c9	1	2.300		1.900		4.370	
GROUND FLOOR COLUMN								
	C1	56	1.800		4.500		453.600	
	c2	6	1.800		4.500		48.600	
	c3	1	2.100		4.500		9.451	
	c4	3	2.100		4.500		28.350	
	c5	37	2.100		4.500		349.651	
	c7	2	2.300		4.500		20.700	
	c8	2	2.300		4.500		20.700	
	c9	1	2.300		4.500		10.350	
FIRST FLOOR COLUMN								
	C1	52	1.800		3.600		336.961	
	c2	5	1.800		3.600		32.401	
	c3	1	2.100		3.600		7.561	
	c4	3	2.100		3.600		22.680	
	c5	37	2.100		3.600		279.720	
	c7	2	2.300		3.600		16.560	
	c8	2	2.300		3.600		16.560	
	c9	1	2.300		3.600		8.280	
L.G./F COLUMN								
	c1	18	1.800		2.700		87.480	
	c2	1	1.800		2.700		4.860	
	c5	9	2.100		2.700		51.031	
	c8	1	2.300		2.700		6.210	
Total Quantity							2198.495 sqm	



							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	2198.495 sqm
							Say 2198.495 sqm @ Rs 613.16 / sqm	<b>Rs 1348029.19</b>
11	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers							
GRADE BEAM								
B1	2	280.540		.6-.3		168.324		
B1	2	666.500		0.600		799.800		
B2	2	47.700		0.600		57.240		
GROUND FLOOR ROOF BEAM								
B1	1	865.940		.45+.3+.45		1039.128		
B2	1	56.840		.45+.3+.45		68.208		
B3	1	48.880		.15+.3+.15		29.328		
B4	1	133.520		.65+.3+.65		213.633		
FIRST FLOOR ROOF BEAM								
B1	1	859.300		.45+.3+.45		1031.160		
B2	1	56.840		.45+.3+.45		68.208		
B3	1	48.880		.15+.3+.15		29.328		
B5	1	14.78+12.89		.15+.3+.15		24.337		
H1	9	1.200		.25+.3+.25		8.640		
H1	2	1.700		.25+.3+.25		2.720		
GROUND FLOOR LINTEL								
LINTEL	2*2	591.000	0.150			354.600		
FIRST FLOOR LINTEL								
LINTEL	2*2	457.400	0.150			274.440		
LOWER G/F ROOF BEAM								
	1	159.000		+ .45+.3+.4 5		190.800		
							Total Quantity	4359.894 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	4359.894 sqm
							Say 4359.894 sqm @ Rs 449.40 / sqm	<b>Rs 1959336.36</b>

12	5.9.7 Centering and shuttering including strutting, etc. and removal of form for:Stairs, (excluding landings ) except spiral - staircases)							
	STAIRCASE GROUND FLOOR TYPE 2							
	FLIGHT 1 WAIST SLAB	2*1	2.660	2.000			10.640	
	DITTO SIDES	2*1*2	2.660		0.300		3.192	
	FLIGHT 2 DITTO	2*1	4.380	2.000			17.520	
	DITTO SIDES	2*1*2	4.380		0.300		5.256	
	FLIGHT 3 DITO	2*1	3.700	2.000			14.800	
	DITTO SIDES	2*1*2	3.700		0.300		4.440	
	LANDING	2*2	1.900	2.000			15.200	
	DITTO SIDES	2*2	4.000		0.150		2.400	
	STEPS	2*30	2.000		0.150		18.000	
	LANDING BEAM	2*1	2*7.4+6.2 +6.5		.3+.2+.3		44.000	
	GROUND FLOOR STAIRCASE TYPE 1							
	FLIGHT 1 WAIST SLAB	1	1.340	2.000			2.680	
		1*2	1.340		0.300		0.804	
	FLIGHT 2 WAIST SLAB	1	4.050	2.000			8.100	
		1*2	4.050		0.300		2.430	
	FLIGHT 3 WAIST SLAB	1	1.340	2.000			2.680	
		2	1.340		0.300		0.804	
	FLIGHT 4 WAIST SLAB	1	3.730	2.000			7.460	
		2	3.730		0.300		2.238	
	LANDING SLAB	3	1.900	2.000			11.400	
	DITTO SIDE	3	4.000		0.150		1.800	
	STEPS	31	2.000		0.150		9.300	
	LANDING BEAM	1	2*6.5+2*4. 5		.3+.2+.3		17.600	
	STAIRCASE FIRST FLOOR TYPE 2							

	FLIGHT 1 WAIST SLAB	1	2.020	2.000			4.040	
	DITTO SIDES	2	2.020		0.300		1.212	
	FLIGHT 2 DITTO	1	4.050	2.000			8.100	
	DITTO SIDES	2	4.050		0.300		2.430	
	FLIGHT 3 DITTO	1	2.020	2.000			4.040	
	DITTO SIDES	2	2.020		0.300		1.212	
	LANDING	2	1.900	2.000			7.600	
	DITTO SIDES	2	4.000		0.150		1.200	
	STEPS	25	2.000		0.150		7.500	
	LANDING BEAM	1	2*7.4+6.2 +6.5		.3+.2+.3		22.000	
STAIRCASE FIRST FLOOR TYPE 3								
	FLIGHT 1 WAIST SLAB	1	4.090	2.000			8.180	
	DITTO SIDES	2	4.090		0.300		2.454	
	FLIGHT 2 DITTO	1	3.690	2.000			7.380	
	DITTO SIDES	2	3.690		0.300		2.214	
	LANDING	1	4.000	2.200			8.800	
	DITTO SIDES	1	8.400		0.150		1.260	
	STEPS	22	2.000		0.150		6.600	
	LANDING BEAM	1	4.000		.3+.2+.3		3.200	
Total Quantity							302.166 sqm	
Total Deducted Quantity							0.000 sqm	
Net Total Quantity							302.166 sqm	
Say 302.166 sqm @ Rs 549.60 / sqm							<b>Rs 166070.43</b>	
13	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform							
GRADE SLAB								
	SIDES	1	99.000		0.100		9.900	
GROUND FLOOR ROOF SLAB								
	BOTTOM	1	2070.000				2070.000	LENGTH = AREA
	SIDES	1	291.000		0.150		43.650	

FIRST FLOOR ROOF SLAB							
BOTTOM	1	1849.640				1849.640	LENGTH = AREA
SIDES	1	290.000		0.150		43.500	
STAIR ROOM COVER SLAB							
	1	60.64+34. 97				95.610	
SIDES	1	55.730		0.100		5.573	
LOWER GROUND ROOF SLAB							
BOTTOM	1	441.780				441.780	
DED BEAM	-1	71+65	0.300			-40.800	
GROUND FLOOR ROOF BEAM							
	1	302.000	0.300			-90.600	
	1	425.000	0.300			-127.500	
	1	407.000	0.300			-122.100	
	1	52.000	0.450			-23.400	
FIRST FLOOR ROOF BEAM							
	1	394.000	0.300			-118.199	
	1	385.000	0.300			-115.500	
	1	17.800	0.300			-5.340	
	1	317.000	0.300			-95.100	
GROUND FLOOR COLUMN							
C1	56	0.300	0.600			-10.080	
c2	6	0.300	0.600			-1.080	
c3	1	0.450	0.600			-0.270	
c4	3	0.450	0.600			-0.810	
c5	37	0.450	0.600			-9.990	
c7	2	0.450	0.700			-0.630	
c8	2	0.450	0.700			-0.630	
c9	1	0.450	0.700			-0.315	
FIRST FLOOR COLUMN							
C1	52	0.300	0.600			-9.360	
c2	5	0.300	0.600			-0.899	

	c3	1	0.450	0.600			-0.270		
	c4	3	0.450	0.600			-0.810		
	c5	37	0.450	0.600			-9.990		
	c7	2	0.450	0.700			-0.630		
	c8	2	0.450	0.700			-0.630		
	c9	1	0.450	0.700			-0.315		
	Total Quantity						4518.853 sqm		
	Total Deducted Quantity						-744.448 sqm		
	Net Total Quantity						3774.405 sqm		
	Say 3774.405 sqm @ Rs 553.47 / sqm						<b>Rs 2089019.94</b>		
14	5.9.2 Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, butresses, plinth and string courses etc.								
	LIFT PIT								
	LIFT PIT L1	2	7.000		1.750		24.500		
	LIFT PIT L2	2	2.800		1.150		6.440		
	LIFT PIT L2	2	5.800		1.750		20.300		
	RC PARAPETT								
	FIRST FLOOR	2	178.700		1.440		514.656		
	TERRACE	2	188.00000		1.450		545.200		
	LIFT WALL GROUND FLOOR								
	LIFT PIT L1	2	7.000		4.500		63.000		
	LIFT PIT L2	2	2.800		4.65-.6		22.681		
	LIFT PIT L2	2	5.800		4.65-.15		52.200		
	LIFT WALL FIRST FLOOR								
	LIFT PIT L1	2	7.000		3.75-.15		50.400		
	LIFT PIT L2	2	2.800		3.75-.6		17.640		
	LIFT PIT L2	2	5.800		3.75-.15		41.760		
	LIFT WALL LOWER G/F FLOOR								
	LIFT PIT L1	2	5.400		3-.3		29.161		
	Total Quantity						1387.938 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						1387.938 sqm		

	Say 1387.938 sqm @ Rs 496.19 / sqm						<b>Rs 688680.96</b>	
15	5.9.13 Centering and shuttering including strutting, etc. and removal of form for:Vertical and horizontal fins individually for forming box louvers band, facias and eaves boards							
FIRST FLOOR SUNSHADE								
	BOTTOM	1	18*1.56+2 8.62				56.700	LENGTH = AREA
	SIDES	1	18*1.56+2 8.62		0.250		14.175	LENGTH = AREA
Total Quantity							70.875 sqm	
Total Deducted Quantity							0.000 sqm	
Net Total Quantity							70.875 sqm	
Say 70.875 sqm @ Rs 822.86 / sqm							<b>Rs 58320.20</b>	
16	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more							
	FOOTING	1	583.122			40.0	23324.880	
	GRADE BEAM	1	153.805			160.0	24608.801	
	GRADE SLAB	1	179.100			80.0	14328.000	
	STUB COLUMN	1	44.089			230.0	10140.470	
	LIFT PIT WALL	1	5.124			140.0	717.360	
	LOW G/F GRADE BEAM	1	24.480			160.0	3916.800	
Total Quantity							77036.311 kilogram	
Total Deducted Quantity							0.000 kilogram	
Net Total Quantity							77036.311 kilogram	
Say 77036.311 kilogram @ Rs 74.18 / kilogram							<b>Rs 5714553.55</b>	
17	5.22A.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo - Mechanically Treated bars of grade Fe-500D or more							
	G/F COLUMN	1	107.125			230.0	24638.750	
	FIRST FLOOR COLUMN	1	82.464			230.0	18966.720	
	G/F ROOF BEAM	1	114.090			160.0	18254.400	
	F/F ROOF BEAM	1	92.090			160.0	14734.401	
	G/F ROOF SLAB	1	310.500			80.0	24840.000	



	F10	1	2.500	2.500	0.400		2.500	
	F11	3	3.500	3.500	0.700		25.725	
	F12	2	3.000	3.000	0.500		9.000	
	F13	1	4.400	3.400	0.800		11.969	
	F14	1	3.400	2.600	0.750		6.630	
	F15	1	3.400	2.500	0.650		5.525	
	F16	2	2.800	2.400	0.400		5.376	
	F17	2	3.500	2.500	0.600		10.500	
	F18	1	4.400	3.400	0.900		13.464	
	LIFT L1	1	7.000	7.750	1.100		59.676	
	LIFT L2	1	6.400	6.700	1.100		47.169	
GRADE BEAM								
	B1	1	280.540	0.300	.6-.3		25.249	
	B1	1	270.000	0.300	0.600		48.600	
	B2	1	47.700	0.300	0.300		4.293	
GRADE SLAB								
	SLAB	1	314.000		0.300		94.200	LENGTH = AREA
		1	101.000		0.150		15.150	LENGTH = AREA
STUB COLUMN								
	C1	37	0.300	0.600	1.900		12.654	
		7	0.300	0.600	2.150		2.709	
		8	0.300	0.600	1.800		2.592	
		1	0.300	0.600	2.100		0.378	
	c2	4	0.300	0.600	1.900		1.368	
		1	0.300	0.600	1.800		0.324	
		1	0.300	0.600	2.100		0.378	
	c3	1	0.450	0.600	1.800		0.487	
	c4	1	0.450	0.600	1.900		0.513	
		2	0.450	0.600	1.800		0.973	
	c5	1	0.450	0.600	2.150		0.581	
		3	0.450	0.600	2.100		1.701	



		18	0.450	0.600	1.900		9.234	
		15	0.450	0.600	1.800		7.291	
	c7	2	0.450	0.700	1.800		1.135	
	c8	1	0.450	0.700	1.800		0.568	
		1	0.450	0.700	1.900		0.599	
	c9	1	0.450	0.700	1.900		0.599	
LIFT PIT								
	LIFT PIT L1	1	7.000	0.200	1.750		2.450	
	LIFT PIT L2	1	2.800	0.200	1.150		0.644	
	LIFT PIT L2	1	5.800	0.200	1.750		2.030	
LOWER GROUND FLOOR GRADE BEAM								
		1	71+65	0.300	0.600		24.480	
GROUND FLOOR COLUMN								
	C1	56	0.300	0.600	4.500		45.360	
	c2	6	0.300	0.600	4.500		4.860	
	c3	1	0.450	0.600	4.500		1.215	
	c4	3	0.450	0.600	4.500		3.646	
	c5	37	0.450	0.600	4.500		44.956	
	c7	2	0.450	0.700	4.500		2.835	
	c8	2	0.450	0.700	4.500		2.835	
	c9	1	0.450	0.700	4.500		1.418	
FIRST FLOOR COLUMN								
	C1	52	0.300	0.600	3.600		33.696	
	c2	5	0.300	0.600	3.600		3.240	
	c3	1	0.450	0.600	3.600		0.973	
	c4	3	0.450	0.600	3.600		2.917	
	c5	37	0.450	0.600	3.600		35.965	
	c7	2	0.450	0.700	3.600		2.269	
	c8	2	0.450	0.700	3.600		2.269	
	c9	1	0.450	0.700	3.600		1.135	
GROUND FLOOR ROOF BEAM								
		1	302.000-50*2*.3	0.300	0.450		36.720	

		1	425.000- 112*2*.15	0.300	0.150		17.613	
		1	407- 94*2*.15	0.300	0.450-.15		34.093	
		1	52.000- 4*2*.3	0.450	1.3-.15		25.669	
FIRST FLOOR ROOF BEAM								
		1	394- 77*2*.3	0.300	0.600-.15		46.953	
		1	385.000- 107*2*.15	0.300	0.300-.15		15.881	
		1	17.800	0.300	0.500		2.670	
		1	317.000- 72*2*.15	0.300	0.300		26.586	
GROUND FLOOR ROOF SLAB								
		1	2070.000		0.150		310.500	LENGTH = AREA
FIRST FLOOR ROOF SLAB								
		1	1849.640		0.150		277.446	LENGTH = AREA
STAIRCASE GROUND FLOOR TYPE 2								
	FLIGHT 1 WAIST SLAB	2*1	2.660	2.000	0.150		1.596	
	FLIGHT 2 DITTO	2*1	4.380	2.000	0.150		2.628	
	FLIGHT 3 DITO	2*1	3.700	2.000	0.150		2.220	
	LANDING	2*2	1.900	2.000	0.150		2.280	
	STEPS	2*0.5*31	2.000	0.300	0.150		2.790	
	LANDING BEAM	2*1	2*7.4+6.2 +6.5	0.200	.45-.15		3.301	
GROUND FLOOR STAIRCASE TYPE 1								
	FLIGHT 1 WAIST SLAB	1	1.340	2.000	0.150		0.402	
	FLIGHT 2 WAIST SLAB	1	4.050	2.000	0.150		1.215	
	FLIGHT 3 WAIST SLAB	1	1.340	2.000	0.150		0.402	

	FLIGHT 4 WAIST SLAB	1	3.730	2.000	0.150		1.119	
	LANDING BEAM	3	1.900	2.000	0.150		1.710	
	STEPS	0.5*31	2.000	0.300	0.150		1.395	
	LANDING BEAM	1	2*6.5+2*4.5	0.200	.45-.15		1.321	
STAIRCASE FIRST FLOOR TYPE 2								
	FLIGHT 1 WAIST SLAB	1	2.020	2.000	0.150		0.606	
	FLIGHT 2 DITTO	1	4.050	2.000	0.150		1.215	
	FLIGHT 3 DITTO	1	2.020	2.000	0.150		0.606	
	LANDING	2	1.900	2.000	0.150		1.140	
	STEPS	0.5*26	2.000	0.300	0.150		1.170	
	LANDING BEAM	1	2*7.4+6.2+6.5	0.200	.45-.15		1.651	
STAIRCASE FIRST FLOOR TYPE 3								
	FLIGHT 1 WAIST SLAB	1	4.090	2.000	0.150		1.227	
	FLIGHT 2 DITTO	1	3.690	2.000	0.150		1.107	
	LANDING	1	4.000	2.200	0.150		1.320	
	STEPS	0.5*22	2.000	0.300	0.150		0.990	
	LANDING BEAM	1	4.000	0.200	.45-.15		0.241	
RC PARAPETT								
	FIRST FLOOR	1	178.700	1.440	0.100		25.733	
	TERRACE	1	188.00000	1.450	0.100		27.260	
FIRST FLOOR SUNSHADE								
		1	18*1.56+2 8.62		0.100		5.671	LENGTH = AREA
STAIR ROOM COVER SLAB								
		1	60.64+34. 96		0.100		9.560	LENGTH = AREA
LIFT WALL GROUND FLOOR								
	LIFT PIT L1	1	7.000	0.200	4.500		6.301	
	LIFT PIT L2	1	2.800	0.200	4.65-.6		2.269	
	LIFT PIT L2	1	5.800	0.200	4.65-.15		5.220	

LIFT WALL FIRST FLOOR								
LIFT PIT L1	1	7.000	0.200	3.75-.15		5.041		
LIFT PIT L2	1	2.800	0.200	3.75-.6		1.764		
LIFT PIT L2	1	5.800	0.200	3.75-.15		4.176		
LINTEL GROUND FLOOR								
GROUND FLOOR	2	591.000	0.200	0.150		35.460		
FIRST FLOOR LINTEL								
LINTEL FIRST FLOOR	2	457.400	0.200	0.150		27.444		
LOWER GROUND FLOOR RET WALL								
	1	85.290	0.250	2.250		47.976		
L.G./F COLUMN								
c1	18	0.300	0.600	2.700		8.748		
c2	1	0.300	0.600	2.700		0.486		
c5	9	0.450	0.600	2.700		6.562		
c8	1	0.450	0.700	2.700		0.851		
STAIRCASE L.G/F FLOOR TYPE 2								
FLIGHT 1 WAIST SLAB	1	2.020	2.000	0.150		0.606		
FLIGHT 2 DITTO	1	4.050	2.000	0.150		1.215		
FLIGHT 3 DITO	1	2.020	2.000	0.150		0.606		
LANDING	2	1.900	2.000	0.150		1.140		
STEPS	0.5*26	2.000	0.300	0.150		1.170		
LANDING BEAM	1	2*7.4+6.2 +6.5	0.200	.45-.15		1.651		
LIFT WALL LOWER G/F FLOOR								
LIFT PIT L1	1	5.400	0.200	3-.3		2.917		
Total Quantity						2091.501 cum		
Total Deducted Quantity						0.000 cum		
Net Total Quantity						2091.501 cum		
Say 2091.501 cum @ Rs 91.09 / cum						<b>Rs 190514.83</b>		
19	6.47	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor Vlevel with RCC band at sill level and lintel level with approved block laying polymermodified adhesive mortar all complete as per direction of Engineer-in-						

Charge. (Thepayment of RCC band and reinforcement shall be made for seperately).								
GF								
OAMT Workshop	2	24.800	0.200	3.750		37.200		
	1	7.300	0.200	3.750		5.475		
	1	5.300	0.200	3.750		3.975		
	1	3.200	0.200	3.750		2.401		
electrical room	1	7.400	0.200	3.750		5.551		
	1	8.500	0.200	3.750		6.376		
	1	2.200	0.200	3.750		1.651		
smw workshop	2	24.400	0.200	3.750		36.600		
	4	1.200	0.200	2.400		2.304		
	2	2.700	0.200	3.750		4.051		
Ladies toilet	3	10.500	0.200	3.750		23.625		
	9	1.500	0.200	2.400		6.480		
Superintendent room	1	5.400	0.200	3.750		4.051		
	1	4.400	0.200	3.750		3.301		
principal room	1	7.200	0.200	3.750		5.400		
	1	4.500	0.200	3.750		3.375		
	1	2.500	0.200	3.750		1.875		
	1	1.300	0.200	3.750		0.976		
VIP room	2	5.800	0.200	3.750		8.700		
	5	3.700	0.200	3.750		13.876		
	1	1.500	0.200	3.750		1.126		
Cash	2	4.300	0.200	3.750		6.450		
	1	3.800	0.200	3.750		2.850		
Stair	1	3.800	0.200	3.750		2.850		
	3	5.000	0.200	3.750		11.250		
Office Room	1	13.200	0.200	3.750		9.900		
	1	9.000	0.200	3.750		6.750		
	1	16.800	0.200	3.750		12.601		
Gents Toilet	2	5.000	0.200	3.700		7.400		
	3	10.000	0.200	3.700		22.201		
	4	2.400	0.200	2.400		4.608		



		4	7.000	0.200	2.700		15.121		
	TF								
	Parapet	4	30.000	0.150	0.900		16.200		
	LGF								
		1	26.300	0.200	2.700		14.203		
	D2	1	1.200	2.400	0.200		-0.576		
	D1	1	1.000	2.100	0.200		-0.420		
	W3	1	1.500	1.500	0.200		-0.450		
	Total Quantity						595.778 cum		
	Total Deducted Quantity						-35.381 cum		
	Net Total Quantity						560.397 cum		
	Say 560.397 cum @ Rs 7453.45 / cum						<b>Rs 4176891.02</b>		
20	13.4.2 12 mm cement plaster of mix:1:6 ( 1 cement : 6 coarse sand)								
	GF								
	Workshop	1	78.600		4.600		361.560		
		1	78.600		4.600		361.560		
	Toilet	1	41.400		4.600		190.440		
	ELE Room	1	25.600		4.600		117.760		
	lift	1	8.800		4.600		40.480		
	stair	1	33.800		1.000		33.800		
	SMW workshop	1	74.240		4.600		341.504		
		1	37.800		4.600		173.880		
	Toilet	1	47.200		4.600		217.120		
	Record room	1	14.400		4.600		66.240		
	Toilet	1	28.900		4.600		132.940		
		1	61.600		4.600		283.360		
	Principal Room	1	61.600		4.600		283.360		
		1	7.600		4.600		34.960		
	V P Room	1	16.400		4.600		75.440		
	VIP room	1	42.200		4.600		194.120		
	Cash	1	15.600		4.600		71.760		
	Stair	1	38.800		1.000		38.800		





	V	14	0.500	6.000			-42.000	
	TF							
	Lift	2	8.200		3.000		49.200	
	LGF							
	Electrical room	1	14.480	2.700			39.096	
		1	21.900	2.700			59.130	
	Lift	1	4.400	3.000			13.201	
	Stair	1	16.010				16.011	
	Carparking	1	39.260	2.700			106.002	
	Columns	6	1.800	2.700			29.161	
	Total Quantity						9397.708 sqm	
	Total Deducted Quantity						-387.960 sqm	
	Net Total Quantity						9009.748 sqm	
	Say 9009.748 sqm @ Rs 220.51 / sqm						<b>Rs 1986739.53</b>	
21	13.4.1 12 mm cement plaster of mix:1:4 ( 1 cement : 4 coarse sand)							
	GF							
	External wall	3	46.000	5.400			745.200	
		1	37.300	5.400			201.420	
	Car porch column	5	1.800	4.800			43.200	
		2	8.200	2.100			34.440	
		1	9.600	2.100			20.160	
	Vertical fin	36	0.600	5.200			112.321	
	RS	3	4.100	4.000			-49.199	
	FF							
	External wall	4	46.000	3.750			690.000	
	Central demo wall	4	7.000	3.750			105.000	
	TF							
	Parapet	4	46.000	2.000			368.000	
	lift	1	9.800	3.600			35.280	
	LGF							
	EXTERNAL	1	42.140	2.500			105.350	
	Total Quantity						2460.371 sqm	

		Total Deducted Quantity				-49.199 sqm	
		Net Total Quantity				2411.172 sqm	
		Say 2411.172 sqm @ Rs 237.02 / sqm				<b>Rs 571495.99</b>	
22	13.16.1 6 mm cement plaster of mix:1:3 ( 1 cement : 3 fine sand)						
	GF	1	1692.000				1692.000
	FF	1	1394.000				1394.000
	LGF	1	432.560				432.560
		Total Quantity				3518.560 sqm	
		Total Deducted Quantity				0.000 sqm	
		Net Total Quantity				3518.560 sqm	
		Say 3518.560 sqm @ Rs 188.46 / sqm				<b>Rs 663107.82</b>	
23	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.						
	In toilets	1	98.440				98.440
		Total Quantity				98.440 sqm	
		Total Deducted Quantity				0.000 sqm	
		Net Total Quantity				98.440 sqm	
		Say 98.440 sqm @ Rs 390.95 / sqm				<b>Rs 38485.12</b>	
24	od170798/2019_2020 Mat polished finish on concrete surface by flooring the process "DENSIFIED FLOOR" Vid. as Grinding the concrete floor using Coarse, Medium diamond grinding tools for removing the latency and minor level difference and opening up the pores in concrete, Densification of the floor using hybrid densifier, Densifier reacts with the un-hydrated lime present in concrete and makes the concrete surface dense and hard.It offers many benefitssuch as reduced dusting, higher gloss readings, increased abrasion resistance, and a longer lifespan of the concrete floor. For this to achieve, the concrete floor is allowed to be saturated with densifier, sealing with external grade sealer is applied on the floor after polishing to protect the floor from the effects of weather and to make the floor water repellent and stain resistant, burnishing the floor using a floor burnisher to bring about more shine and remove excess sealer from the floor etc as per technical guidance from with HTC Sweden and Convergent Concrete Technologies, USA. This item shall be executed only by the agency which has all required manufacturing machineries and necessary expertise.						
	IN GF Workshops	1	485.000				485.000

		Total Quantity		485.000 sqm			
		Total Deducted Quantity		0.000 sqm			
		Net Total Quantity		485.000 sqm			
		Say 485.000 sqm @ Rs 599.89 / sqm		<b>Rs 290946.65</b>			
25	11.41.2 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4(1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600 x 600 mm.						
	GF						
	Principal room	1	38.000				38.000
		1	25.200	0.100			2.520
	VP Room	1	16.650				16.650
		1	16.650	0.100			1.665
	VIP room	1	22.040				22.040
		1	19.200	0.100			1.920
	Cash room	1	14.320				14.320
		1	15.620	0.100			1.562
	Record room	1	12.920				12.920
		1	14.400	0.100			1.441
	Office room	1	133.560				133.560
		1	46.400	0.100			4.640
	Staff dining	1	34.980				34.980
		1	23.400	0.100			2.340
	Store room	1	112.400				112.400
		1	35.000	0.100			3.500
	Seminar hall	1	253.400				253.400
		1	64.000	0.100			6.400
		1	52.800				52.800
		1	41.200	0.100			4.120
	GI Cabin	1	18.800				18.800
		1	18.800	0.100			1.881
		1	29.440				29.440
	Electrical room	1	36.120				36.120

		1	25.600	0.100			2.561	
	Passage	1	494.000				494.000	
		1	294.000	0.100			29.401	
	Stair	3	37.500				112.500	
FF								
	Class room	10	79.800				798.000	
		10	36.200	0.100			36.200	
	Digital library	1	111.800				111.800	
		1	43.200	0.100			4.320	
		1	16.500				16.500	
		1	10.000	0.100			1.000	
	Workshop	1	257.850				257.851	
		1	85.600	0.100			8.560	
	Passage	1	420.000				420.000	
		1	242.000	0.100			24.201	
	Stair	3	37.500				112.500	
LGF								
	Electrical room	1	4.170	3.700			15.429	
		1	4.170+3.7	0.100			0.787	
	Stair Room	1	86.360				86.360	
		1	52.200	0.100			5.221	
	Steps	16	2.000	0.300			9.600	
		17	2.000	0.150			5.100	
		1	2.000	2.000			4.000	
Total Quantity							3363.310 sqm	
Total Deducted Quantity							0.000 sqm	
Net Total Quantity							3363.310 sqm	
Say 3363.310 sqm @ Rs 1467.09 / sqm							<b>Rs 4934278.47</b>	
26	<p>11.36 Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.</p>							

		GF					
	L Toilet	11	5.600	2.100			129.360
	G T	5	8.000	2.100			84.000
	Staff toilet	3	6.600	2.100			41.580
	VIP room	1	6.800	2.100			14.280
	VP room	1	6.800	2.100			14.280
	Principal room	1	7.600	2.100			15.960
	W/S	4	5.800	2.100			48.720
		4	7.400	2.100			62.161
	D3	27	0.800	2.100			-45.360
		2	1.000	2.100			-4.200
		FF					
	Gents toilet	5	6.000	2.100			63.001
	L Toilet	7	5.400	2.100			79.381
	W/S	6	5.400	2.100			68.040
	d3	18	0.800	2.100			-30.240
		Total Quantity					620.763 sqm
		Total Deducted Quantity					-79.800 sqm
		Net Total Quantity					540.963 sqm
		Say 540.963 sqm @ Rs 976.13 / sqm					<b>Rs 528050.21</b>
27	11.38	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 ( 1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.					
		GF					
	Gents toilet	1	47.070				47.070
	Ladies toilet	1	44.420				44.420
	Change room	1	19.180				19.180
		1	18.080				18.080
	Staff room	1	7.800				7.800
	Vice principal room	1	2.550				2.550
	VIP Room	1	2.850				2.850
	Principal room	1	3.250				3.250

FF									
	Gents toilet	1	47.040				47.040		
	Ladies toilet	1	44.400				44.400		
	Change room	1	18.040				18.040		
	Total Quantity						254.680 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						254.680 sqm		
	Say 254.680 sqm @ Rs 980.20 / sqm						<b>Rs 249637.34</b>		
28	od18705/2019_2020 Supply and install externally 1st quality 60x30x1.2cm ceramic tile walls cladding of different colours, tile shall be laid and fixed to pre plastered walls in patterns, style and forms of grouting and jointing as directed by engineer using approved tile adhesive materials and pointed with approved tile joint filler matching the colour of tiles.								
	For vertical fin	36*2	0.600	5.200			224.641		
	Total Quantity						224.641 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						224.641 sqm		
	Say 224.641 sqm @ Rs 1444.56 / sqm						<b>Rs 324507.40</b>		
29	od18706/2019_2020 Supply and install externally 1st quality 30x15x0.8cm brick pattern ceramic tile for walls cladding, tile shall be laid and fixed to pre plastered walls in patterns, style and forms of grouting and jointing as directed by engineer using approved tile adhesive materials and pointed with approved tile joint filler matching the colour of tiles.								
	For planter boxes								
		16	2.000	0.600			19.200		
		4	1.500	0.600	1.000		3.600		
		1	1.000	0.600	1.000		0.600		
		1	9.600	0.600	1.000		5.760		
	Total Quantity						29.160 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						29.160 sqm		
	Say 29.160 sqm @ Rs 1394.71 / sqm						<b>Rs 40669.74</b>		
30	13.43.1 Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer								
GF									

	Workshop	1	78.600		4.600		361.560	
		1	78.600		4.600		361.560	
	Toilet	1	41.400		4.600		190.440	
	ELE Room	1	25.600		4.600		117.760	
	lift	1	8.800		4.600		40.480	
	stair	1	33.800		1.000		33.800	
	SMW workshop	1	74.240		4.600		341.504	
		1	37.800		4.600		173.880	
	Toilet	1	47.200		4.600		217.120	
	Record room	1	14.400		4.600		66.240	
	Toilet	1	28.900		4.600		132.940	
		1	61.600		4.600		283.360	
	Principal Room	1	61.600		4.600		283.360	
		1	7.600		4.600		34.960	
	V P Room	1	16.400		4.600		75.440	
	VIP room	1	42.200		4.600		194.120	
	Cash	1	15.600		4.600		71.760	
	Stair	1	38.800		1.000		38.800	
		1	18.000		4.600		82.800	
	Visitors waiting	1	13.300		4.600		61.180	
	Office Room	1	33.400		4.600		153.640	
		1	38.200		4.600		175.720	
		1	41.400		4.600		190.440	
	Gents toilet	1	45.800		4.600		210.680	
	Store room	1	47.200		4.600		217.120	
	GI Cabin	1	9.400		4.600		43.240	
	Stair	1	39.900		4.600		183.540	
	Corridor	1	181.000		4.600		832.600	
		1	72.400		4.600		333.040	
	Seminar Hall	1	86.800		4.600		399.280	
	D1	15	1.000	2.100			-31.500	
	D2	9	1.200	2.400			-25.919	
	D3	7	0.800	2.100			-11.760	

	W2	5	1.000	1.500			-7.500	
	W4	14	2.000	1.500			-42.000	
	V	6	0.600	0.500			-1.799	
	FF							
	Workshop	1	68.000	3.600			244.800	
		1	51.100	3.600			183.960	
	Stair	3	38.900				116.700	
	Class room	10	36.000	3.600			1296.000	
	lift	2	4.100	3.600			29.520	
	G toilet	1	42.700	3.600			153.721	
	L toilet	1	68.400	3.600			246.241	
		1	68.400	3.600			246.241	
	Library	1	56.500	3.600			203.400	
	Passage	1	168.500	3.600			606.600	
	D1	5	1.000	2.100			-10.500	
	D3	18	0.800	2.100			-30.240	
	W4	32	2.000	1.500			-96.000	
	V	12	0.500	6.000			-36.000	
	TF							
	Lift	2	8.200		3.000		49.200	
	GF	1	1692.000				1692.000	
	FF	1	1394.000				1394.000	
	LGF							
	Electrical room	1	14.480	2.700			39.096	
		1	21.900	2.700			59.130	
	Lift	1	4.400	3.000			13.201	
	Stair	1	16.010				16.011	
	Carparking	1	39.260	2.700			106.002	
	Columns	6	1.800	2.700			29.161	
	LGF							
	EXTERNAL	1	42.140	2.500			105.350	
	Total Quantity						12732.698 sqm	
	Total Deducted Quantity						-293.218 sqm	



	Net Total Quantity						12439.480 sqm
	Say 12439.480 sqm @ Rs 48.43 / sqm						<b>Rs 602444.02</b>
31	13.82.2 Wall painting with acrylic emulsion paint, 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 and colour.Two coats						
	GF						
	Workshop	1	78.600		4.600		361.560
		1	78.600		4.600		361.560
	Toilet	1	41.400		4.600		190.440
	ELE Room	1	25.600		4.600		117.760
	lift	1	8.800		4.600		40.480
	stair	1	33.800		1.000		33.800
	SMW workshop	1	74.240		4.600		341.504
		1	37.800		4.600		173.880
	Toilet	1	47.200		4.600		217.120
	Record room	1	14.400		4.600		66.240
	Toilet	1	28.900		4.600		132.940
		1	61.600		4.600		283.360
	Principal Room	1	61.600		4.600		283.360
		1	7.600		4.600		34.960
	V P Room	1	16.400		4.600		75.440
	VIP room	1	42.200		4.600		194.120
	Cash	1	15.600		4.600		71.760
	Stair	1	38.800		1.000		38.800
		1	18.000		4.600		82.800
	Visitors waiting	1	13.300		4.600		61.180
	Office Room	1	33.400		4.600		153.640
		1	38.200		4.600		175.720
		1	41.400		4.600		190.440
	Gents toilet	1	45.800		4.600		210.680
	Store room	1	47.200		4.600		217.120
	GI Cabin	1	9.400		4.600		43.240
	Stair	1	39.900		4.600		183.540

	Corridor	1	181.000		4.600		832.600	
		1	72.400		4.600		333.040	
	Seminar Hall	1	86.800		4.600		399.280	
	D1	15	1.000	2.100			-31.500	
	D2	9	1.200	2.400			-25.919	
	D3	7	0.800	2.100			-11.760	
	W2	5	1.000	1.500			-7.500	
	W4	14	2.000	1.500			-42.000	
	V	6	0.600	0.500			-1.799	
	FF							
	Workshop	1	68.000	3.600			244.800	
		1	51.100	3.600			183.960	
	Stair	3	38.900				116.700	
	Class room	10	36.000	3.600			1296.000	
	lift	2	4.100	3.600			29.520	
	G toilet	1	42.700	3.600			153.721	
	L toilet	1	68.400	3.600			246.241	
		1	68.400	3.600			246.241	
	Library	1	56.500	3.600			203.400	
	Passage	1	168.500	3.600			606.600	
	D1	5	1.000	2.100			-10.500	
	D3	18	0.800	2.100			-30.240	
	W4	32	2.000	1.500			-96.000	
	V	12	0.500	6.000			-36.000	
	TF							
	Lift	2	8.200		3.000		49.200	
	GF	1	1692.000				1692.000	
	FF	1	1394.000				1394.000	
	LGF							
	Electrical room	1	14.480	2.700			39.096	
		1	21.900	2.700			59.130	
	Lift	1	4.400	3.000			13.201	
	Stair	1	16.010				16.011	

	Carparking	1	39.260	2.700			106.002	
	Columns	6	1.800	2.700			29.161	
	LGF							
	EXTERNAL	1	42.140	2.500			105.350	
	Total Quantity						12732.698 sqm	
	Total Deducted Quantity						-293.218 sqm	
	Net Total Quantity						12439.480 sqm	
	Say 12439.480 sqm @ Rs 96.85 / sqm						<b>Rs 1204763.64</b>	
32	13.46.1 Finishing walls with Acrylic Smooth exterior paint of required shade:New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)							
	GF							
	External wall	3	46.000	5.400			745.200	
		1	37.300	5.400			201.420	
	Car porch column	5	1.800	4.800			43.200	
		2	8.200	2.100			34.440	
		1	9.600	2.100			20.160	
	Vertical fin	36	0.600	5.200			112.321	
	RS	3	4.100	4.000			-49.199	
	FF							
	External wall	4	46.000	3.750			690.000	
	Central demo wall	4	7.000	3.750			105.000	
	TF							
	Parapet	4	46.000	2.000			368.000	
	lift	1	9.800	3.600			35.280	
	Total Quantity						2355.021 sqm	
	Total Deducted Quantity						-49.199 sqm	
	Net Total Quantity						2305.822 sqm	
	Say 2305.822 sqm @ Rs 125.88 / sqm						<b>Rs 290256.87</b>	
33	13.50.3 Applying priming coat:With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron /steel works							
	W4	50	2.000	1.500			150.000	
	W3	5	1.500	1.500			11.250	

	w2	1	1.000	1.500			1.500	
	V	33	0.600	0.500			9.900	
	RS	3*2	4.100	4.000	1.250		123.000	
	Total Quantity						295.650 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						295.650 sqm	
	Say 295.650 sqm @ Rs 38.14 / sqm						<b>Rs 11276.09</b>	
34	13.84.2 Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.Two coats							
	W4	50	2.000	1.500			150.000	
	W3	5	1.500	1.500			11.250	
	W2	1	1.000	1.500			1.500	
	V	33	0.600	0.500			9.900	
	RS	3*2	4.100	4.000	1.250		123.000	
	Total Quantity						295.650 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						295.650 sqm	
	Say 295.650 sqm @ Rs 98.36 / sqm						<b>Rs 29080.13</b>	
35	9.48.2 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.Fixed to openings/ wooden frames with rawl plugs screws etc							
	W4	50	2.000	1.500		17.0	2550.000	
	W3	5	1.500	1.500		17.0	191.250	
	W2	1	1.000	1.500		17.0	25.500	
	V	33	0.600	0.500		17.0	168.300	
	Total Quantity						2935.050 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						2935.050 kg	
	Say 2935.050 kg @ Rs 147.38 / kg						<b>Rs 432567.67</b>	
36	9.147.5 Providing and fixing factory made uPVC white colour casement/casement cumfixed glazed windows comprising of uPVC multi-chambered frame, sash andmullion (where ever required) extruded profiles duly reinforced with 1.60 +/- 0.2mm thick galvanized mild steel section made from roll forming process of							

	<p>required length (shape &amp; size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame &amp; sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing &amp; direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately)</p> <p>Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth &amp; width of profile shall be acceptable. Casement window double panels with S.S. friction hinges (350 x 19 x 1.9 mm) made of (big series) frame 67 x 60 mm &amp; sash / mullion 67 x 80 mm both having wall thickness of <math>2.3 \pm 0.2</math> mm and single glazing bead/ double glazing bead of appropriate dimension. (Area of window above 1.50 sqm).</p>						
	W4	46	2.000	1.500			138.000
	W3	6	1.000	1.500			9.000
	Total Quantity						147.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						147.000 sqm
	Say 147.000 sqm @ Rs 10973.92 / sqm						<b>Rs 1613166.24</b>
37	<p>9.147B.1 543SUB HEAD : 9 - WOOD &amp; PVC WORK 9.147B Providing and fixing factory made uPVC white colour fixed glazed windows/ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with <math>1.60 \pm 0.2</math> mm thick galvanized mild steel section made from roll forming process of required length (shape &amp; size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing &amp; direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately).</p> <p>Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth &amp; width of profile shall be acceptable. Fixed window / ventilator made of (small series) frame 47 x 50 mm &amp; mullion 47 x 68 mm both having wall thickness of <math>1.9 \pm 0.2</math> mm and single glazing bead of appropriate dimension. (Area upto 0.75 sqm.)</p>						
	V	31	0.600	0.500			9.300
	Total Quantity						9.300 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						9.300 sqm
	Say 9.300 sqm @ Rs 7076.85 / sqm						<b>Rs 65814.71</b>
38	21.3.2						

	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. ( Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 5.50 mm thickness							
	W4	46	2.000	1.500			138.000	
	W3	6	1.000	1.500			9.000	
	V	31	0.600	0.500			9.300	
	Total Quantity						156.300 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						156.300 sqm	
	Say 156.300 sqm @ Rs 1315.78 / sqm						<b>Rs 205656.41</b>	
39	od170778/2019_2020 Supply and fixing ready made galvanized wooden texture Powder coating/Heat transfer/Fluorocarbon laminate painted steel doors with steel jamb,SS hinges & door sill ,sheet thickness of 1to 1.4mm, Cylindrical lock, high security locking systems (Multi lock models having 11 locking points, and can be operated with a single key), honeycomb paper Infilling material, five years warranty on all the hardware and locking system as per satisfaction of site Engineer in charge.The above rate included all fixing and fittings like security locks, hinges, hardware items etc.( Cuirass/l-leaf/GM or approved equivalent.)							
	D2							
	GF	11	1.200	2.400			31.680	
	FF	13	1.200	2.400			37.440	
	LGF	1	1.200	2.400			2.880	
	Total Quantity						72.000 sqm of door area	
	Total Deducted Quantity						0.000 sqm of door area	
	Net Total Quantity						72.000 sqm of door area	
	Say 72.000 sqm of door area @ Rs 10882.21 / sqm of door area						<b>Rs 783519.12</b>	
40	od18702/2019_2020 Supplying fully finished Pre Hung Door:- Both side HP Laminate vertical grain pattern Flush door with matching PVC  Wrapped WPC Jamb with front side Architrave other side Tackers. Door of 35mm thick with 4 side edges painted / Lock Hole Boring (Using mortise lock)/ Hinge Rebate Cutting (4 Nos) ,Jamb width 100 mm. Latch with Lever handles without Keys SS finish - 1 No, Hinges 4" x 3" x 3mm SS finish - 4 Nos .Tower Bolt 6" SS Finish - 1 No.(Jacsons or Approved equivalent)							
	D3							
	GF	32	0.800	2.100			53.761	
	FF	19	0.800	2.100			31.920	



	together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.80x1.20 mm M.S. laths with 1.20 mm thick top cover							
	For workshops	3	4.000	4.100			49.200	
	Total Quantity						49.200 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						49.200 sqm	
	Say 49.200 sqm @ Rs 2413.34 / sqm						<b>Rs 118736.33</b>	
44	10.7 Providing and fixing ball bearing for rolling shutters.							
		6					6.000	
	Total Quantity						6.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						6.000 no	
	Say 6.000 no @ Rs 497.11 / no						<b>Rs 2982.66</b>	
45	od18717/2019_2020 Supply 100x100x4mm thick 6.00 m long Galvanized square hollow section member (AS 1163-2009 Grade min C350L0 AS/NZS 4792 Galvanised coatings on ferrous hollow sections) fixed vertically and anchored to RC parapet and base up stand, will be given a priming coat of Zinc primer as approved by Engineer-in-charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer in-charge for approval before execution).							
	Galvanized square hollow section							
	Galvanized square hollow section	1	540.000	1.000	1.000		540.000	
	Total Quantity						540.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						540.000 metre	
	Say 540.000 metre @ Rs 1006.28 / metre						<b>Rs 543391.20</b>	
46	od170504/2019_2020 Supply Cor-Ten A grade 3mm thick warm rolled perforated cassettes (ASTM A606) fixed to plastered wall spacing in the hidden plastic suspension mounts with stainless steel class A2, 35 mm long and 8 mm dia pins and anchor bolts etc.							
	FRONT AREA	5	2.000	1.800			18.000	
		10	2.000	1.200			24.000	



	CARPORCH	1	2*2.25+2* 4.62	0.600			8.244		
	RIGHT SIDE	6	2.000	1.800			21.600		
		7	2.000	1.200			16.800		
	LEFT SIDE	6	2.000	1.800			21.600		
		10	2.000	1.200			24.000		
	REAR SIDE	5	2.000	1.800			18.000		
		7	2.000	1.200			16.800		
		Total Quantity					169.044 sqm		
		Total Deducted Quantity					0.000 sqm		
		Net Total Quantity					169.044 sqm		
		Say 169.044 sqm @ Rs 2594.59 / sqm					<b>Rs 438599.87</b>		
47	<p>12.45.3            Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts &amp; bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels-0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5x25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with:12.5 mm thick tapered edge gypsum moisture resistant board</p>								
	Principal room	1	5.000	7.600			38.000		
	Seminar hall	1	17.600	14.400			253.441		
		Total Quantity					291.441 sqm		
		Total Deducted Quantity					0.000 sqm		
		Net Total Quantity					291.441 sqm		
		Say 291.441 sqm @ Rs 1256.41 / sqm					<b>Rs 366169.39</b>		

48	12.59.1 Providing and fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flanged of cleat fixed to the angle hangers of 25x10x0.50mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I chanel 45x15x0.90mm running at the spacing of 1200 mm c/c, to which the ceiling section 0.5 mm thick bottom wedge of 80mm with tapered flanges of 26mm each having lips of 10.5mm, at 450mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing perimeter channels 0.50mm thick 27 mm high having flages of 20mm and 30mm long, the perimeter of ceiling fixed to wall/ partitions with the help of Rawl plugs at 450mm centre, with 25mm long dry wall screws @ 230mm interval, including fixing of Calcium Silicate Board to ceiling section and perimeter channels with the help of day wall screws of size 3.5x25mm at 230mm c/c, including jointing & finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes, finishing with jointing compounds in three layers covering up to 150mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitable fixed, all complete as per drawings, specification and direction of the Engineer in charge but excluding the cost of painting with a 8 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.							
	In toilets	2	41.730				83.460	
	Total Quantity						83.460 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						83.460 sqm	
	Say 83.460 sqm @ Rs 1201.49 / sqm						<b>Rs 100276.36</b>	
49	od18719/2019_2020 Providing and Fixing in position Ply Decking in class room of approved design, shape with vertical & horizontal necessary frame work of hard wood members of approved quality, well notched & screwed, 12mm thick approved marine ply decking finished to recieve marble / wood, necessary frame work, wooden packings, including necessary hardware, making holes in MS sections, etc. complete as per detail drawing and as directed by Enginner in charge. Raised floor @ 300mm ht. from FFL							
	In class rooms	10	11.480				114.801	
	Total Quantity						114.801 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						114.801 sqm	
	Say 114.801 sqm @ Rs 2877.15 / sqm						<b>Rs 330299.70</b>	
50	od170800/2019_2020 Supply and fixing White Board: 4'x6' magnetic White							
		13					13.000	



	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.								
		38					38.000		
		Total Quantity					38.000	each	
		Total Deducted Quantity					0.000	each	
		Net Total Quantity					38.000	each	
		Say 38.000 each @ Rs 1278.16 / each					<b>Rs 48570.08</b>		
55	17.70.1 Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the center of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms								
		38					38.000		
		Total Quantity					38.000	each	
		Total Deducted Quantity					0.000	each	
		Net Total Quantity					38.000	each	
		Say 38.000 each @ Rs 385.25 / each					<b>Rs 14639.50</b>		
56	18.50.1 Providing and fixing C.P brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. 15 mm nominal bore								
		45					45.000		
		Total Quantity					45.000	each	
		Total Deducted Quantity					0.000	each	
		Net Total Quantity					45.000	each	
		Say 45.000 each @ Rs 727.78 / each					<b>Rs 32750.10</b>		
57	50.17.1.5 Supplying and fixing CP Health Faucet superior quality ( Jagur or equivalent make ) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.								
		45					45.000		
		Total Quantity					45.000	no	
		Total Deducted Quantity					0.000	no	
		Net Total Quantity					45.000	no	
		Say 45.000 no @ Rs 1280.27 / no					<b>Rs 57612.15</b>		
58	17.71 Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms								

		26					26.000	
	Total Quantity						26.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						26.000	each
	Say 26.000 each @ Rs 180.67 / each						<b>Rs 4697.42</b>	
59	50.17.1.3 Supplying and fixing CP Towel rod 60cm or nearest available length including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.							
		45					45.000	
	Total Quantity						45.000	no
	Total Deducted Quantity						0.000	no
	Net Total Quantity						45.000	no
	Say 45.000 no @ Rs 127.25 / no						<b>Rs 5726.25</b>	
60	od18724/2019_2020 Supply & Fixing square Cockroach proof Traps with CP Gratings. Unloading materials supplied at site and storing it in safe place provided in the site. (Make: ACO/SGS )							
		56					56.000	
	Total Quantity						56.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						56.000	each
	Say 56.000 each @ Rs 653.79 / each						<b>Rs 36612.24</b>	
61	od18726/2019_2020 Providing and fixing 100mm dia Cleanout with Spigot, with SS 304 Square Frame & Round Frame with Flat Round Cover with Rubber Seal & SS Screw including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer in charge at all levels.							
		15					15.000	
	Total Quantity						15.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						15.000	each
	Say 15.000 each @ Rs 1628.31 / each						<b>Rs 24424.65</b>	
62	od18727/2019_2020 Providing and fixing 75mm dia Cleanout with Spigot, with SS 304 Square Frame & Round Frame with Flat Round Cover with Rubber Seal & SS Screw including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer in charge at all levels.							
		5					5.000	
	Total Quantity						5.000	each





		Net Total Quantity					30.000 metre
		Say 30.000 metre @ Rs 375.45 / metre					<b>Rs 11263.50</b>
71	50.18.8.2.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 20 mm pipe 10 Kg/ cm <sup>2</sup>						
		1	210.000			210.000	
		Total Quantity					210.000 metre
		Total Deducted Quantity					0.000 metre
		Net Total Quantity					210.000 metre
		Say 210.000 metre @ Rs 274.73 / metre					<b>Rs 57693.30</b>
72	18.17.1 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :25 mm nominal bore						
		2				2.000	
		Total Quantity					2.000 each
		Total Deducted Quantity					0.000 each
		Net Total Quantity					2.000 each
		Say 2.000 each @ Rs 561.20 / each					<b>Rs 1122.40</b>
73	18.17.3 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :40 mm nominal bore						
		3				3.000	
		Total Quantity					3.000 each
		Total Deducted Quantity					0.000 each
		Net Total Quantity					3.000 each
		Say 3.000 each @ Rs 766.31 / each					<b>Rs 2298.93</b>
74	18.17.4 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :50 mm nominal bore						
		3				3.000	
		Total Quantity					3.000 each
		Total Deducted Quantity					0.000 each
		Net Total Quantity					3.000 each
		Say 3.000 each @ Rs 982.82 / each					<b>Rs 2948.46</b>



75	od18730/2019_2020 Supply, fixing, testing , commissioning 65mm dia Butterfly valve (Manual) with CI body SS disk, Nitrile rubber seal and O-ring P16 pressure rating for water circulation as specified.						
		2					2.000
	Total Quantity						2.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						2.000 each
	Say 2.000 each @ Rs 3896.44 / each						<b>Rs 7792.88</b>
76	od18731/2019_2020 Supply, fixing, testing , commissioning 80mm dia Butterfly valve (Manual) with CI body SS disk, Nitrile rubber seal and O-ring P16 pressure rating for water circulation as specified.						
		2					2.000
	Total Quantity						2.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						2.000 each
	Say 2.000 each @ Rs 4377.30 / each						<b>Rs 8754.60</b>
77	50.18.9.2.2 Providing and fixing PVC pipes includings of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 20 mm dia 10 Kg/cm2						
		10					10.000
	Total Quantity						10.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						10.000 metre
	Say 10.000 metre @ Rs 128.91 / metre						<b>Rs 1289.10</b>
78	50.18.9.3.2 Providing and fixing PVC pipes includes jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 25 mm dia 10KGF/cm2						
		1	10.000				10.000
	Total Quantity						10.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						10.000 metre
	Say 10.000 metre @ Rs 160.95 / metre						<b>Rs 1609.50</b>
79	50.18.9.4.1 Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.32 mm dia 10.Kgf/cm2						
		15					15.000



		Say 10.000 metre @ Rs 365.41 / metre					<b>Rs 3654.10</b>	
84	18.17.2 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :32 mm nominal bore							
		2	1.000				2.000	
		Total Quantity					2.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					2.000 each	
		Say 2.000 each @ Rs 656.28 / each					<b>Rs 1312.56</b>	
85	50.18.7.6.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing . This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 6 Kgf/cm2 - Internal work- Exposed on wall							
		1	35.000				35.000	
		Total Quantity					35.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					35.000 metre	
		Say 35.000 metre @ Rs 268.75 / metre					<b>Rs 9406.25</b>	
86	50.18.8.6.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 50 mm pipe 6 kgf/cm2							
		1	30.000				30.000	
		Total Quantity					30.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					30.000 metre	
		Say 30.000 metre @ Rs 320.03 / metre					<b>Rs 9600.90</b>	
87	50.18.8.7.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making good the wall etc. 63 mm pipe 6 Kgf/cm2							
		1	85.000				85.000	
		Total Quantity					85.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					85.000 metre	

		Say 85.000 metre @ Rs 460.92 / metre					<b>Rs 39178.20</b>	
88	50.18.8.8.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 75 mm pipe 6 Kgf/cm2							
		1	30.000				30.000	
		Total Quantity					30.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					30.000 metre	
		Say 30.000 metre @ Rs 474.32 / metre					<b>Rs 14229.60</b>	
89	50.18.8.9.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chased and making good the wall etc. 110 mm pipe 6kgf/cm2							
		1	65.000				65.000	
		Total Quantity					65.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					65.000 metre	
		Say 65.000 metre @ Rs 574.32 / metre					<b>Rs 37330.80</b>	
90	50.18.9.10.1 Providing and fixing PVC pipes includings jointing of pipes with one step pvc solvent cement, trenching , refilling & testing of joints complete as per direction of Engineer in Charge. 150 mm dia 6 Kgf/cm2							
		1	30.000				30.000	
		Total Quantity					30.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					30.000 metre	
		Say 30.000 metre @ Rs 805.57 / metre					<b>Rs 24167.10</b>	
91	50.18.9.19.1 Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm2 - External work- Exposed on wall							
		1	210.000				210.000	
		Total Quantity					210.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					210.000 metre	

	Say 210.000 metre @ Rs 340.64 / metre						<b>Rs 71534.40</b>	
92	od18734/2019_2020 Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing. This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per the direction of Engineer-in-Charge 160 mm dia 6 Kg/cm <sup>2</sup> - External work- Exposed on wall							
		1	140.000				140.000	
	Total Quantity						140.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						140.000 metre	
	Say 140.000 metre @ Rs 745.12 / metre						<b>Rs 104316.80</b>	
93	19.4.3.2 Providing and fixing square-mouth S.W. gully trap class SP -1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:180x150 mm size P type With sewer bricks conforming to IS: 4885							
		1	14.000				14.000	
	Total Quantity						14.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						14.000 each	
	Say 14.000 each @ Rs 2259.02 / each						<b>Rs 31626.28</b>	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
<b>2 MAIN BUILDING - ELECTRICAL WORKS</b>								
1	od18615/2019_2020 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV   grade of following size on wall surface as required. 1R X 3.5C X 70 Sq.mm AYFY							
		1	20.000				20.000	
	Total Quantity						20.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						20.000 metre	
	Say 20.000 metre @ Rs 532.36 / metre						<b>Rs 10647.20</b>	
2	od18640/2019_2020 Supplying and drawing of 1R x 4C x 10 Sq.mm AYFY cable through 40mm medium class PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required.							
		1	350.000				350.000	
	LGF	1	20.000				20.000	
	Total Quantity						370.000 metre	



	control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoing etc. comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent. Incomer: - 125A TPN Isolator – 1 No. Outgoing: - 40A TP MCB – 1 Nos, 32A TP MCB - 2 Nos, 50A TP MCB - 2 No, 63A TPN Isolator - 1 No.						
		1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 72548.61 / each						<b>Rs 72548.61</b>
6	od70747/2019_2020 SITC of MDB 1 (Main Building-1, Malampuzha) Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compartmentalized), color-coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, (bus-bar distances shall be minimum 32 mm ) insulators, hardware, neoprene gasket , hinged door,interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoing etc comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent. Incomer: - 250A TPN Isolator – 1 No. Outgoing: - 125A 3P MCCB – 1 No., 100A 3P MCCB – 3 No., 63A 3P MCCB – 2 No., 40A SP MCCB – 1 No.						
		1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 149404.52 / each						<b>Rs 149404.52</b>
7	od70760/2019_2020 SITC of SSB 5 (Malampuzha) Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compartmentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, (bus-bar distances shall be minimum 32 mm ) insulators, hardware, neoprene gasket , hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoing etc. comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent.						

	Incomer: - 250A TPN Isolator – 1 No. Outgoing: - 63A 3P MCB – 3 No., 32A 3P MCB – 1 No. 63A, 3P MCCB - 4 Nos, 160A, 3P MCCB - 1 no.						
		1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 119358.60 / each						<b>Rs 119358.60</b>
8	<p>od70750/2019_2020  SITC of SSB 4 (Main Building 1, UPS, Malampuzha)&lt;br&gt;Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with 14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compartmentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, (bus-bar distances shall be minimum 32 mm ) insulators, hardware, neoprene gasket , hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of&lt;br&gt;suitable capacity &amp; size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut &amp; bolts at outside of the panel, rating and name plates for all incoming &amp; outgoings etc. comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&amp;T/Equivalent. Incomer: - 100A TPN Isolator – 1 No. Outgoing: - 20A 3P MCB – 7 No., 32A 3P MCB – 1 No.</p>						
	Other Engineering Organisations						1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 89601.04 / each						<b>Rs 89601.04</b>
9	<p>9.1.22  Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 3 1/2 X 50 sq. mm (35mm)</p>						
		4					4.000
	Total Quantity						4.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						4.000 set
	Say 4.000 set @ Rs 463.95 / set						<b>Rs 1855.80</b>
10	<p>9.1.32  Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 4 X 10 sq. mm (25mm)</p>						



		18					18.000	
	LGF	2					2.000	
		Total Quantity					20.000 set	
		Total Deducted Quantity					0.000 set	
		Net Total Quantity					20.000 set	
		Say 20.000 set @ Rs 266.05 / set					<b>Rs 5321.00</b>	
11	9.1.34 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.4 X 25 sq. mm (28mm)							
		16					16.000	
		Total Quantity					16.000 set	
		Total Deducted Quantity					0.000 set	
		Net Total Quantity					16.000 set	
		Say 16.000 set @ Rs 338.13 / set					<b>Rs 5410.08</b>	
12	9.1.23 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3 1/2X 70 sq. mm (38mm)							
		2					2.000	
		Total Quantity					2.000 set	
		Total Deducted Quantity					0.000 set	
		Net Total Quantity					2.000 set	
		Say 2.000 set @ Rs 516.38 / set					<b>Rs 1032.76</b>	
13	9.1.26 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3 1/2 X 150 sq. mm (50mm)							
		2					2.000	
		Total Quantity					2.000 set	
		Total Deducted Quantity					0.000 set	
		Net Total Quantity					2.000 set	
		Say 2.000 set @ Rs 775.88 / set					<b>Rs 1551.76</b>	
14	od18680/2019_2020 Supply of 50 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE							

		1	80.000				80.000	
	Total Quantity						80.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						80.000 metre	
	Say 80.000 metre @ Rs 306.00 / metre						<b>Rs 24480.00</b>	
15	od18684/2019_2020 Supply of 3.5C X 150 Sq.mm AYFY Cable							
		1	270.000				270.000	
	Total Quantity						270.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						270.000 metre	
	Say 270.000 metre @ Rs 759.00 / metre						<b>Rs 204930.00</b>	
16	od18691/2019_2020 Supply of 35 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE							
		1	20.000				20.000	
	Total Quantity						20.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						20.000 metre	
	Say 20.000 metre @ Rs 237.00 / metre						<b>Rs 4740.00</b>	
17	od18693/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE							
		1	500.000				500.000	
	Total Quantity						500.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						500.000 metre	
	Say 500.000 metre @ Rs 202.00 / metre						<b>Rs 101000.00</b>	
18	od18698/2019_2020 Supply of 16 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE							
		1	180.000				180.000	
	Total Quantity						180.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						180.000 metre	

	Say 180.000 metre @ Rs 153.00 / metre						<b>Rs 27540.00</b>	
19	9.1.33 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.4 X 16 sq. mm (28mm)							
		6					6.000	
	Total Quantity						6.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						6.000 set	
	Say 6.000 set @ Rs 334.20 / set						<b>Rs 2005.20</b>	
20	4.1.3 Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.225 mm width X 50 mm depth X 1.6 mm thickness							
	GF	1	100.000				100.000	
	1F	1	100.000				100.000	
	Total Quantity						200.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						200.000 metre	
	Say 200.000 metre @ Rs 602.88 / metre						<b>Rs 120576.00</b>	
21	4.1.4 Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.300 mm width X 50 mm depth X 1.6 mm thickness							
	GF	1	100.000				100.000	
	1F	1	100.000				100.000	
	Total Quantity						200.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						200.000 metre	
	Say 200.000 metre @ Rs 689.38 / metre						<b>Rs 137876.00</b>	
22	7.1.3 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size direct in ground including excavation, sand cushioning, protective covering andrefilling the trench etc as required.Above 95 sq. mm and upto 185 sq. mm							
		1	210.000				210.000	

						Total Quantity	210.000 metre
						Total Deducted Quantity	0.000 metre
						Net Total Quantity	210.000 metre
						Say 210.000 metre @ Rs 292.26 / metre	<b>Rs 61374.60</b>
23	7.7.1	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Upto 35 sq. mm (clamped with 1mm thick saddle)					
		1	240.000				240.000
	LGF	1	10.000				10.000
						Total Quantity	250.000 metre
						Total Deducted Quantity	0.000 metre
						Net Total Quantity	250.000 metre
						Say 250.000 metre @ Rs 32.77 / metre	<b>Rs 8192.50</b>
24	7.7.2	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)					
		1	30.000				30.000
						Total Quantity	30.000 metre
						Total Deducted Quantity	0.000 metre
						Net Total Quantity	30.000 metre
						Say 30.000 metre @ Rs 94.36 / metre	<b>Rs 2830.80</b>
25	7.7.3	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)					
		1	210.000				210.000
						Total Quantity	210.000 metre
						Total Deducted Quantity	0.000 metre
						Net Total Quantity	210.000 metre
						Say 210.000 metre @ Rs 110.09 / metre	<b>Rs 23118.90</b>
26	7.8.1	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)					
		1	790.000				790.000
	LGF	1	10.000				10.000





	42/43)							
	1F	2					2.000	
	Total Quantity						2.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						2.000 each	
	Say 2.000 each @ Rs 4415.17 / each						<b>Rs 8830.34</b>	
35	90.11.1.14 Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required 4 way (8+12) - double cover TPN vertical DB with provision for fixing 4P MCB / Isolator/ RCCB/ RCBO as incomer and SP/ TP MCB as outgoing (IP 42/43)							
	GF	1					1.000	
	1F	1					1.000	
	Total Quantity						2.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						2.000 each	
	Say 2.000 each @ Rs 6466.17 / each						<b>Rs 12932.34</b>	
36	90.11.1.15 Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required 6 way (8+18) - double cover TPN vertical DB with provision for fixing 4P MCB / Isolator/ RCCB/ RCBO as incomer and SP/ TP MCB as outgoing (IP 42/43)							
	GF	1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 7153.17 / each						<b>Rs 7153.17</b>	
37	90.11.1.16 Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required 8 way (8+18) - double cover TPN vertical DB with provision for fixing 4P MCB / Isolator/ RCCB/ RCBO as incomer and SP/ TP MCB as outgoing (IP 42/43)							

	GF	5					5.000	
	1F	2					2.000	
	Total Quantity						7.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						7.000 each	
	Say 7.000 each @ Rs 7844.17 / each						<b>Rs 54909.19</b>	
38	90.11.1.10 Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required 4 way (8+12) - three phase double cover (IP 42/43)							
	LGF	1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 2759.17 / each						<b>Rs 2759.17</b>	
39	2.13.2 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 amps							
	GF	7					7.000	
	1F	3					3.000	
	Total Quantity						10.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						10.000 each	
	Say 10.000 each @ Rs 888.59 / each						<b>Rs 8885.90</b>	
40	2.10.4 Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Triple pole							
	GF	30					30.000	
	1F	11					11.000	
	Total Quantity						41.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						41.000 each	
	Say 41.000 each @ Rs 917.42 / each						<b>Rs 37614.22</b>	



41	2.13.1 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps							
	GF	5					5.000	
	1F	5					5.000	
	LGF	1					1.000	
	Total Quantity						11.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						11.000 each	
	Say 11.000 each @ Rs 874.17 / each						<b>Rs 9615.87</b>	
42	2.15.1 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.25 amps							
	LGF	1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 2747.02 / each						<b>Rs 2747.02</b>	
43	2.15.2 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps							
	GF	5					5.000	
	1F	5					5.000	
	Total Quantity						10.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						10.000 each	
	Say 10.000 each @ Rs 2792.89 / each						<b>Rs 27928.90</b>	
44	2.15.3 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.63 amps							
	GF	7					7.000	
	1F	3					3.000	
	Total Quantity						10.000 each	



48	2.20 Supplying and fixing 30 amps, 415 volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 30 amps "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.							
	GROUND FLOOR	6					6.000	
	Total Quantity						6.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						6.000 each	
	Say 6.000 each @ Rs 3260.77 / each						<b>Rs 19564.62</b>	
49	1.14.1 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required 2x1.5 sq.mm + 1x1.5 sq.mm earth wire							
	GROUND FLOOR	1	1400.000				1400.000	
	FIRST FLOOR	1	1400.000				1400.000	
	LGF	1	60.000				60.000	
	Total Quantity						2860.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						2860.000 metre	
	Say 2860.000 metre @ Rs 146.79 / metre						<b>Rs 419819.40</b>	
50	1.14.2 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required 2X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire							
	GF	1	550.000				550.000	
	1F	1	550.000				550.000	
	LGF	1	160.000				160.000	
	Total Quantity						1260.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						1260.000 metre	
	Say 1260.000 metre @ Rs 179.55 / metre						<b>Rs 226233.00</b>	
51	1.14.3 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required 2 X 4 sq. mm + 1 X 4 sq. mm earth wire							
	GF	1	200.000				200.000	

	1F	1	80.000				80.000	
	Total Quantity						280.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						280.000 metre	
	Say 280.000 metre @ Rs 220.18 / metre						<b>Rs 61650.40</b>	
52	1.14.8 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required 4 X 4 sq. mm + 2 X 4 sq. mm earth wire							
	GF	1	160.000				160.000	
	1F	1	120.000				120.000	
	Total Quantity						280.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						280.000 metre	
	Say 280.000 metre @ Rs 368.28 / metre						<b>Rs 103118.40</b>	
53	1.14.9 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required 4 X 6 sq. mm + 2 X 6 sq. mm earth wire							
	GF	1	160.000				160.000	
	Total Quantity						160.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						160.000 metre	
	Say 160.000 metre @ Rs 517.69 / metre						<b>Rs 82830.40</b>	
54	1.24.1 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 amps switch							
	GF	85					85.000	
	1F	130					130.000	
	Total Quantity						215.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						215.000 each	
	Say 215.000 each @ Rs 110.09 / each						<b>Rs 23669.35</b>	
55	1.24.3 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 15/16 amp switch							

	GF	25					25.000	
	1F	24					24.000	
	LGF	5					5.000	
	Total Quantity						54.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						54.000 each	
	Say 54.000 each @ Rs 149.41 / each						<b>Rs 8068.14</b>	
56	1.24.4 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.3 pin 5/6 amp socket outlet							
	GF	85					85.000	
	1F	130					130.000	
	Total Quantity						215.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						215.000 each	
	Say 215.000 each @ Rs 106.16 / each						<b>Rs 22824.40</b>	
57	1.24.5 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.6 pin 15/16 amp socket outlet							
	GF	25					25.000	
	1F	24					24.000	
	LGF	5					5.000	
	Total Quantity						54.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						54.000 each	
	Say 54.000 each @ Rs 200.52 / each						<b>Rs 10828.08</b>	
58	90.2.1.6 Supply and wiring points according to IS 732-1989 using rigid PVC conduit of minimum size 20 mm with specials conforming to IS 9537 part III 1983 and with suitable size specials conforming to IS 3419-1988, fixing the conduit using metal saddles spacing not exceeding 50 cm or concealed suitably and with 1.00 sq mm FRLS PVC insulated stranded single core copper conductor cable 650V grade, including providing switch board main and continuous earthing with No.14 SWG bare copper,required quantity of copper earth socket, brass bolt and nut crimping/ soldering etc complete with suitable size modular type metal switch boxes, modular type front plates (white) etc. up to and including 6A modular type SP switches and making good the surface of wall, colour washing etc. complete. All the terminations in the switch boards and DB's shall be tinned and the wires shall be drawn and fixed along the periphery of the box using suitable ties, tie mounts etc as required. (RoHS compliant modular accessories).Combined							

	plug point with 6 A, 5 pin plug socket controlled by 6 A, switch in the same switch board as that of light points							
	GF	20					20.000	
	1F	14					14.000	
	LGF	2					2.000	
	Total Quantity						36.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						36.000 each	
	Say 36.000 each @ Rs 428.90 / each						<b>Rs 15440.40</b>	
59	1.24.7 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.TV antenna socket outlet							
	GF	1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 127.13 / each						<b>Rs 127.13</b>	
60	1.24.8 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.Bell push							
	GF	1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 149.41 / each						<b>Rs 149.41</b>	
61	1.25 Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.							
	GF	70					70.000	
	1F	70					70.000	
	Total Quantity						140.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						140.000 each	
	Say 140.000 each @ Rs 377.45 / each						<b>Rs 52843.00</b>	
62	1.27.1							

	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.1 or 2 Module (75mmX75mm)							
	GF	2					2.000	
	Total Quantity						2.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						2.000 each	
	Say 2.000 each @ Rs 229.36 / each						<b>Rs 458.72</b>	
63	1.27.2 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.3 Module (100mmX75mm)							
	GF	32					32.000	
	1F	28					28.000	
	LGF	5					5.000	
	Total Quantity						65.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						65.000 each	
	Say 65.000 each @ Rs 242.46 / each						<b>Rs 15759.90</b>	
64	1.27.4 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.6 Module (200mmX75mm)							
	GF	39					39.000	
	1F	63					63.000	
	Total Quantity						102.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						102.000 each	
	Say 102.000 each @ Rs 338.13 / each						<b>Rs 34489.26</b>	
65	1.38 Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.							
		1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 79.95 / each						<b>Rs 79.95</b>	
66	od70142/2019_2020 Supply, installation, testing and commissioning of 5W LED wall light working on 230V, 50 Hz AC,							

	including giving connections as required.						
		53					53.000
	Total Quantity						53.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						53.000 each
	Say 53.000 each @ Rs 333.76 / each						<b>Rs 17689.28</b>
67	od70143/2019_2020 SITC of Rust Resistant and Weather-Proof Bulk head light fixture with 9W LED lamp, IP 65 protection complete with all other accessories as required.						
		16					16.000
	Total Quantity						16.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						16.000 no
	Say 16.000 no @ Rs 629.47 / no						<b>Rs 10071.52</b>
68	1.10.3 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVCinsulated copper conductor single core cable in surface / recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLSPVC insulated copper conductor single core cable etc as required.Group C						
	GF	203					203.000
	1F	225					225.000
	LGF	15					15.000
	Total Quantity						443.000 point
	Total Deducted Quantity						0.000 point
	Net Total Quantity						443.000 point
	Say 443.000 point @ Rs 992.12 / point						<b>Rs 439509.16</b>
69	1.11 Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.						
	GF	6					6.000
	1F	6					6.000
	LGF	1					1.000
	Total Quantity						13.000 point
	Total Deducted Quantity						0.000 point





73	<p>90.3.24.3 Supply &amp; installation of light fittings suspended on ball &amp; socket arrangement with 19 mm down rod &lt;br&gt;Supply, conveyance, installation, testing and commissioning the light fittings of following types made of .5mm thick CRCA sheet accessories and lamps etc. including supplying and fixing ball and socket arrangements on PVC round block, suspension down rod of 19mm dia MS conduit up to 2x30cm length including painting and wiring the down rod with 16/0.20mm 3 core round copper conductor flex wire conforming to relevant ISS or extending the original wiring and giving connections etc. a required.1200 mm 1X20W LED Lamp with box type fixture</p>						
	GF	24					24.000
	1F	87					87.000
	LGF	23					23.000
	Total Quantity						134.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						134.000 each
	Say 134.000 each @ Rs 1430.16 / each						<b>Rs 191641.44</b>
74	<p>90.3.24.4 Supply &amp; installation of light fittings suspended on ball &amp; socket arrangement with 19 mm down rod &lt;br&gt;Supply, conveyance, installation, testing and commissioning the light fittings of following types made of .5mm thick CRCA sheet accessories and lamps etc. including supplying and fixing ball and socket arrangements on PVC round block, suspension down rod of 19mm dia MS conduit up to 2x30cm length including painting and wiring the down rod with 16/0.20mm 3 core round copper conductor flex wire conforming to relevant ISS or extending the original wiring and giving connections etc. a required.1200 mm 2X20W LED Lamp with box type fixture</p>						
	GF	28					28.000
	1F	12					12.000
	Total Quantity						40.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						40.000 each
	Say 40.000 each @ Rs 2001.16 / each						<b>Rs 80046.40</b>
75	<p>od18721/2019_2020 Supply, installation , testing and commissioning of exhaust fans of size up to 450mm in the existing opening, fixing necessary anchor bolts / bolt and nuts etc., as required including giving connections with the supplied wire along with the exhaust fan.&lt;br&gt;300/305 mm sweep Light Duty Exhaust fan in metal frame working on 230 V A/C</p>						
	GF	5					5.000
	1F	3					3.000
	Total Quantity						8.000 each
	Total Deducted Quantity						0.000 each

								Net Total Quantity	8.000 each
								Say 8.000 each @ Rs 1941.84 / each	<b>Rs 15534.72</b>
76	od18723/2019_2020 Supply, conveyance, installation, testing and commissioning of ceiling fans of the following sizes using standard accessories excluding resistance type regulator, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required. 1400mm sweep ceiling fan complete with 300mm down rod , canopies, shackeles and blades and resistance type regulator working on 230V/240V single phase A/C								
	GF	15							15.000
	1F	8							8.000
								Total Quantity	23.000 each
								Total Deducted Quantity	0.000 each
								Net Total Quantity	23.000 each
								Say 23.000 each @ Rs 1792.94 / each	<b>Rs 41237.62</b>
77	od70874/2019_2020 SITC o 20 KVA UPS with battery bank etc with all accessories having a back of 1 hours								
		1							1.000
								Total Quantity	1.000 no
								Total Deducted Quantity	0.000 no
								Net Total Quantity	1.000 no
								Say 1.000 no @ Rs 474577.00 / no	<b>Rs 474577.00</b>
SI No	Description	No	L	B	D	CF	Quantity	Remark	
<b>3 MAIN BUILDING TYPE 1 FIRE FIGHTING WORKS</b>									
1	od19541/2019_2020 M.S Hose Cabinet : - Providing & fixing M.S Hose cabinet door with powder coating of postal red color (of size minimum 1200mm wide, 2100mm height) made of M.S sheet 14 G with glass front door and locking arrangement to accommodate 2-hoses, one branch pipe and to accommodate F.A. hose reel in addition for internal hydrant complete as per direction of Engineer incharge. 								
		5							5.000
								Total Quantity	5.000 each
								Total Deducted Quantity	0.000 each
								Net Total Quantity	5.000 each
								Say 5.000 each @ Rs 6147.95 / each	<b>Rs 30739.75</b>
2	od19543/2019_2020 FIRE HOSE REEL : - Providing and fixing first aid hose reel full swinging type with 30 m length x 20 mm dia rubber lined pipe with ABS plastic shut off nozzle of 6 mm dia. The hose reel shall conform to IS requirements. Rate shall include 25 mm dia pipe connection from riser to hose reel including flexible pipe,								

	sockets, nipples, elbows and 25 mm ball valve. Make: Newage/SRI/Monsher" 						
		5					5.000
	Total Quantity						5.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						5.000 each
	Say 5.000 each @ Rs 9705.36 / each						<b>Rs 48526.80</b>
3	od19545/2019_2020 Supplying and fixing stainless steel Single headed internal hydrant valves with instantaneous stainless steel couplings of 63mm dia. With cast iron wheel ISI marked conforming to IS 5290 (Type-A) with blank stainless steel cap and chain, stainless steel orifice plate for reducing the pressure upto 3.5 kg/cm2 at outlet. Make:- ISI Approved						
		5					5.000
	Total Quantity						5.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						5.000 each
	Say 5.000 each @ Rs 8277.68 / each						<b>Rs 41388.40</b>
4	od19575/2019_2020 Providing 63mm (2½ )" dia 15 m long canvas hose pipe complete with stainless steel male & female coupling stainless steel wire wound with the pipe The pipe shall confirm to IS. 4927. Make: ISI Approved.						
		5					5.000
	Total Quantity						5.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						5.000 each
	Say 5.000 each @ Rs 5459.48 / each						<b>Rs 27297.40</b>
5	od19563/2019_2020 Providing and fixing 63 mm dia standard stainless steel short Branch Pipe female instantaneous inlet, male threaded outlet, complete with hexagonal base nozzle as per IS 903 with 20 mm nozzle complete with fixing clamps. Make: Essel/Priyanka/Newage						
		5					5.000
	Total Quantity						5.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						5.000 each
	Say 5.000 each @ Rs 2676.48 / each						<b>Rs 13382.40</b>
6	od18647/2019_2020 Above Ground Piping :- Providing, fixing, welding joints and testing of 80 mm Dia. heavy class MS ERW Black pipes as per relevant IS 1239/3589 with special accessories tees, elbows, flanged joints, rubber						

	insertion, nuts, bolts, washers or welded joint with flange joints on bends, including fixing the pipe with suitable flat iron strip clamps/brackets structural members dash fastener,civil breakage,making good the same etc. painting with a primer coat and two coats of postal red enamel etc. complete as required. (for wet riser system)								
		3					3.000		
		Total Quantity					3.000	metre	
		Total Deducted Quantity					0.000	metre	
		Net Total Quantity					3.000	metre	
		Say 3.000 metre @ Rs 1091.50 / metre					<b>Rs 3274.50</b>		
7	od19558/2019_2020 Supply, installing, testing and commissioning of Fire Extinguisher dry chemical powder type ISI mark, 5 kg capacity with initial charger and installation brackets.Make - Safex / Warrior / Intime								
		5					5.000		
		Total Quantity					5.000	each	
		Total Deducted Quantity					0.000	each	
		Net Total Quantity					5.000	each	
		Say 5.000 each @ Rs 2200.99 / each					<b>Rs 11004.95</b>		
8	od18658/2019_2020 ESCAPE ROUTE SIGNS :- Supply & installing in position self glowing " EXIT " sign board to guide the occupants towards the exits of size 100mm x 300 mm made of luminescent safely, rigid sheet in green colour, photo luminescent rigid sheet with two each hanging chains & necessary supports to hang it on ceiling.								
	Ground Floor	1					1.000		
	First Floor	2					2.000		
	Second Floor	2					2.000		
		Total Quantity					5.000	each	
		Total Deducted Quantity					0.000	each	
		Net Total Quantity					5.000	each	
		Say 5.000 each @ Rs 744.68 / each					<b>Rs 3723.40</b>		
9	od18663/2019_2020 FIRE EXIT :- Supply & installing in position self glowing " FIRE EXIT " sign board of size 100mm x 300 mm made of luminescent safely, rigid sheet in green colour, photo luminescent rigid sheet with two each hanging chains & necessary supports to hang it on ceiling.								
	Ground Floor	1					1.000		
	First Floor	1					1.000		
	Second Floor	1					1.000		



		Net Total Quantity					1.000 no	
		Say 1.000 no @ Rs 52365.00 / no					<b>Rs 52365.00</b>	
14	od19578/2019_2020 Above Ground Piping :- Providing, fixing, welding joints and testing of 100 mm Dia. heavy class MS ERW Black pipes as per relevant IS 1239/3589 with special accessories tees, elbows, flanged joints, rubber insertion, nuts, bolts, washers or welded joint with flange joints on bends, including fixing the pipe with suitable flat iron strip clamps/brackets structural members dash fastener,civil breakage,making good the same etc. painting with a primer coat and two coats of postal red enamel etc. complete as required. (for wet riser system)							
		1	102.000				102.000	
		Total Quantity					102.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					102.000 metre	
		Say 102.000 metre @ Rs 1318.44 / metre					<b>Rs 134480.88</b>	
15	od19582/2019_2020 Below Ground Piping :- Providing, fixing, welding joints and testing of 100 mm Dia. heavy class MS ERW Black pipes as per relevant IS 1239/3589 with special accessories tees, elbows, flanged joints, rubber insertion, nuts, bolts, washers or welded joint with flange joints on bends and other fitting etc, painting with one coat of anti-corrosive paint and two coats of epoxy paint and and wrapping with polymer corrosion protection tape confirming to IS 10221 with proper overlapping, trimming etc. complete as required . (for wet riser system)							
		1	18.000				18.000	
		Total Quantity					18.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					18.000 metre	
		Say 18.000 metre @ Rs 1572.55 / metre					<b>Rs 28305.90</b>	
16	od18688/2019_2020 Providing and fixing 100mm dia. Cast iron Non-Return Valve. Make:- ISI Approved.  							
	For Pump	1					1.000	
	For Fire Brigade Inlet	1					1.000	
		Total Quantity					2.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					2.000 each	
		Say 2.000 each @ Rs 3794.19 / each					<b>Rs 7588.38</b>	
17	od18692/2019_2020 Providing & fixing pressure gauges of not less than 100mm dia dial of pressure range 0-10 kg/cmsq complete with shut off valve duly calibrated before installation.Make:- ISI Approved. 							

	For Terrace pump	1					1.000	
	Total Quantity						1.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						1.000	each
	Say 1.000 each @ Rs 970.99 / each						<b>Rs 970.99</b>	
18	od18695/2019_2020 Providing and fixing 25 mm dia. Air Releasing Valve. Make:- ISI Approved.							
	For Down Comer System	01					1.000	
	Total Quantity						1.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						1.000	each
	Say 1.000 each @ Rs 1579.15 / each						<b>Rs 1579.15</b>	
19	od18697/2019_2020 Supplying, testing, installation & commissioning of pressure switches for Hydrant, and Standby, including necessary wiring up to control panel & other materials. 							
	For Terrace Pump	01					1.000	
	Total Quantity						1.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						1.000	each
	Say 1.000 each @ Rs 3469.67 / each						<b>Rs 3469.67</b>	
20	od18700/2019_2020 Providing and fixing 100 mm Dia. cast iron Butterfly valve of the following size complete with S.S. 304 disc, bolts, nuts, washers and neoprene gaskets as per specifications. 							
	For Terrace Pump	2					2.000	
	For Fire Brigade Inlet	1					1.000	
	Total Quantity						3.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						3.000	each
	Say 3.000 each @ Rs 5836.10 / each						<b>Rs 17508.30</b>	
21	od61527/2019_2020 Supply, Installation, Testing and commissioning of Over head tank (Structural Steel) with necessary Accessories (Nuts,Bolt and Support.etc) , Approved Make/Materials :- ISI Approved Materials.							
		1					1.000	
	Total Quantity						1.000	no



							Total Deducted Quantity	0.000 no
							Net Total Quantity	1.000 no
							Say 1.000 no @ Rs 662372.00 / no	<b>Rs 662372.00</b>
Sl No	Description	No	L	B	D	CF	Quantity	Remark
<b>4 SUMP TANK CIVIL WORKS</b>								
1	2.6.1 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 disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil							
		1	540.000				540.000	
							Total Quantity	540.000 cum
							Total Deducted Quantity	0.000 cum
							Net Total Quantity	540.000 cum
							Say 540.000 cum @ Rs 165.07 / cum	<b>Rs 89137.80</b>
2	4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)							
		1	12.300				12.300	
							Total Quantity	12.300 cum
							Total Deducted Quantity	0.000 cum
							Net Total Quantity	12.300 cum
							Say 12.300 cum @ Rs 5869.06 / cum	<b>Rs 72189.44</b>
3	4.3.1 Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations, footings, bases for columns							
		1	30.750				30.750	
							Total Quantity	30.750 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	30.750 sqm
							Say 30.750 sqm @ Rs 254.19 / sqm	<b>Rs 7816.34</b>
4	2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.							
		1	45.000				45.000	





12	22.23.1 Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels/ subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer in-charge. The product performance shall carry guarantee for 10 years against any leakage. For vertical surface two coats @ 0.70 kg per sqm							
		1	346.752				346.752	
		Total Quantity					346.752 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					346.752 sqm	
		Say 346.752 sqm @ Rs 613.49 / sqm					<b>Rs 212728.88</b>	
13	22.23.2 Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels/ subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer in-charge. The product performance shall carry guarantee for 10 years against any leakage. For horizontal surface one coat @ 1.10 kg per sqm.							
		1	98.670				98.670	
		Total Quantity					98.670 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					98.670 sqm	
		Say 98.670 sqm @ Rs 474.90 / sqm					<b>Rs 46858.38</b>	
14	13.4.1 12 mm cement plaster of mix:1:4 ( 1 cement : 4 coarse sand)							
		1	520.000				520.000	
		Total Quantity					520.000 sqm	
		Total Deducted Quantity					0.000 sqm	

	Net Total Quantity						520.000 sqm		
	Say 520.000 sqm @ Rs 237.02 / sqm								<b>Rs 123250.40</b>
15	od18671/2019_2020 Supply and fixing double sealed Ductile Iron manhole covers of size 800x800 mm with frames (Medium duty)								
		6					6.000		
	Total Quantity						6.000 each		
	Total Deducted Quantity						0.000 each		
	Net Total Quantity						6.000 each		
	Say 6.000 each @ Rs 15801.67 / each								<b>Rs 94810.02</b>
SI No	Description	No	L	B	D	CF	Quantity	Remark	
<b>5 MAIN BUILDING 1 HVAC SYSTEM</b>									
1	od27253/2019_2020 Supply and installation of Refrigerant Copper piping insulated with Nitrile Rubber Tubular insulation with 13/19mm thickness.								
	Ground Floor ( Split A/C)	30					30.000		
	Seminar Hall	400					400.000		
	Total Quantity						430.000 metre		
	Total Deducted Quantity						0.000 metre		
	Net Total Quantity						430.000 metre		
	Say 430.000 metre @ Rs 2059.00 / metre								<b>Rs 885370.00</b>
2	od18631/2019_2020 Supply, installation , testing and commissioning of exhaust fans of size up to 8 Inch(Round type) in the existing opening, fixing necessary anchor bolts / bolt and nuts etc., as required including giving connections with the supplied wire along with the exhaust fan. 300/305 mm sweep Light Duty Exhaust fan in metal frame working on 230 V A/C								
	Ground Floor	2					2.000		
	First Floor	2					2.000		
	Total Quantity						4.000 no		
	Total Deducted Quantity						0.000 no		
	Net Total Quantity						4.000 no		
	Say 4.000 no @ Rs 4005.84 / no								<b>Rs 16023.36</b>
3	od27254/2019_2020 Supply ,installation,testing and commissioning of Modular type outdoor units equipped with minimum 2 Nos of highly efficient DC twin Rotary compressors with all inverter type compressor(s) only,special acryl pre-coated heat exchanger,low noise condenser fan,auto check function for connection error,auto								

	address setting,with multiple outdoor units of capacities and quantities as mentioned below.Refrigerant Should be R410A .(4-6 HP)						
	Seminar Hall	1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 171173.00 / each						<b>Rs 171173.00</b>
4	od27257/2019_2020 Supply,installation,testing and commissioning of High-Wall indoor units with compact cooling coil,electronic expansion valve and multi speed fan motor,The blower shall be dynamicaly balanced and designed for silent operation ,the filters shall be washable type .Drain Pump is a part of the indoor unit.(2 TR), Make :- Carrier / ISI Equivalent.						
	Seminar Hall	4					4.000
	Total Quantity						4.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						4.000 each
	Say 4.000 each @ Rs 42420.00 / each						<b>Rs 169680.00</b>
5	od27259/2019_2020 Supplying & providing 2.00 TR Split A/C with high wall mounted unit. Carrier/Hitachi/Voltas/Blue Star.Mini 5Star rating ( Drain piping and Installation included).						
	Split A/C (Principal Room)	1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 56304.00 / each						<b>Rs 56304.00</b>
6	16.12.2.1 Supply, Installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular / round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports, etc as per approved drawings and specifications of following sheet thickness complete as required.Site fabricated GSS sheet metal rectangular ducting as per IS 655-2006 for 0.63 mm thick						
	Ground Floor	25					25.000
	First Floor	25					25.000
	Total Quantity						50.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						50.000 metre

	Say 50.000 metre @ Rs 825.68 / metre						<b>Rs 41284.00</b>	
7	16.16.a Supplying and Fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.							
	For Ground Floor ( 19 No. Grills)	28					28.000	
	First Floor ( 16 No)	24					24.000	
	Total Quantity						52.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						52.000 metre	
	Say 52.000 metre @ Rs 5327.59 / metre						<b>Rs 277034.68</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>6 MAIN BUILDING FURNITURE</b>								
1	od18616/2019_2020 Supply, deliver and place trademark registered branded (JALARAM make JED 1512) or approved equivalent Executive Desk with side unit and credenza. Desktop mounted on SS tubular legs and specially designed pedestal storage with utility spaces inspired by your needs. Size: (A) Main Desk : W-2000 x D-900 x H-750 mm (B) Side Unit : W-1050 x D-500 x H-750mm (C) Credenza : W-2000 x D-400 x H-1190mm							
	principal room	1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 181867.09 / each						<b>Rs 181867.09</b>	
2	od18619/2019_2020 Supply, deliver and place registered branded (JALARAM Make-JEC 2017(D)) or approved equivalent Executive High Back Revolving Chair, Tested by approved BIFMA standard laboratories confirming to ANSI/BIFMA X 5.1- 2002 Cl. No. 5,7,8,12,13,17 on functional requirement. Leatherette Finish, High quality mould foam cushion, Die-Cast Aluminium with buffing pedestal, 5 Position locking system with swivel mechanism, Chrome Finished Armrest, Anti-Shock and Synchro Tilt Mechanism , Adjustable cozy armrest , Overall Size (approx) :-H: 117.0 - 126.5 x W:75 x D:75 (cm) ,Seat Height:- 44-54 (cm) Front Pivot Synchro Mechanism: This mechanism helps you experience the effect of your body angle opening out, for maximum relaxation, while your feet remain firmly on the ground. 5-Position Locking: The backrest can be locked in 5 different positions, giving you firm support for concentrated work. Its anti-shock mechanism prevents the backrest from impacting the user when the lock is released. Moulded Foam: The seat and the backrest are made up of moulded polyurethane foam of the right density and thickness, which not only gives you a soft feeling on first contact but also provides a firm support to ensure hours of comfortable seating, Swivel Mechanism: The swivel mechanism allows for a complete 3600 lateral movement. This prevents you from straining over your shoulders and back to reach out for papers and phones kept on either side of your table, ensuring mobility while working. Twin Wheel							

	Castors: The twin wheel castors facilitates ease of movement.							
	principal room	1					1.000	
	v p room	1					1.000	
	superintendent room	1					1.000	
	Total Quantity						3.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						3.000 each	
	Say 3.000 each @ Rs 23987.93 / each						<b>Rs 71963.79</b>	
3	od18623/2019_2020 Supply, deliver and place registered branded (JALARAM Make-JEC 2017(F)) or approved equivalent Executive Visitor Chair, Tested by approved BIFMA standard laboratories confirming to ANSI/BIFMA X 5.1- 2002 Cl. No. 5,7,8,12,13,17 on functional requirement. With Leatherette Finish Moulded Foam: The seat and the backrest are made up of moulded polyurethane foam of the right density and thickness.							
	principal room	4					4.000	
	vp room	2					2.000	
	superintendent room	2					2.000	
	cash	1					1.000	
	library	2					2.000	
	Total Quantity						11.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						11.000 each	
	Say 11.000 each @ Rs 17498.69 / each						<b>Rs 192485.59</b>	
4	od18628/2019_2020 Supply, deliver and place trademark registered branded (JALARAM make- JSF 102 A) or approved equivalent JALARAM Multipurpose storage cabinet with 2 adjustable shelves and 1 full locker. Overall size: H-1980 x W-915 x D-485(mm) (H-78"xW-36"x D-19") Material Specifications: The raw material used in cupboard will be PRIME quality CRCA as per IS 513 (1994,1998) 'D' grade. OEM must enclose Proof of purchase of steel from SAIL/Tata Steel/Essar/ Jindal. The cupboard should have welded construction with MIG welding process. The material used for constructing the cupboard should be prime quality Cold Rolled Close Annealed (CRCA) Steel (for doors and shelves 1.0 mm & other parts as per functional requirements) The doors provided will be full height steel hinged doors The handle provided will be matching, easy to grip, sleek and elegant. The Cupboard will have a 3 way locking Mechanism Minimum 6 levers (With duplicate keys) mechanism with shooting bolt arrangement. Shelving: The shelving will be Height wise Adjustable and Shelf Mounting. The Uniformly Distributed Load (UDL) Capacity per each full shelf will be 40 Kg at least. The cupboard will have 2 numbers of adjustable and 1 fixed full shelves with 1 full locker. All steel parts will be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust.							
	principal room	2					2.000	



	vp room	1					1.000	
	superintendent room	1					1.000	
	staff room	3					3.000	
	library	2					2.000	
	Total Quantity						9.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						9.000 each	
	Say 9.000 each @ Rs 17439.92 / each						<b>Rs 156959.28</b>	
5	od18632/2019_2020 Supply, deliver and place Trademark registered branded (JALARAM make-JED 200) or approved equivalent Chief Executive Suite with PU coated 36 mm post formed top, Executive Return Unit & 3 Drawer Pedestal Unit, Size of the main Table: W-250 x D-110 x H-75 cm, Size of the Pedestal for Main Table: W-42.5 x D-80 cm, Size of Return Unit: W-127.5 x D-58 cm, Size of the Pedestal for Return Unit: W-42.5x D-58 cm							
	v p room	1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 144889.23 / each						<b>Rs 144889.23</b>	
6	od18636/2019_2020 Supply, deliver and place registered branded (JALARAM make JED 220) or approved equivalent Executive Desk elegant looking main desk with mobile pedestal and return unit. A real beauty of the blend of wood and steel. Main Desk Size: W-180 x D-90 x H-75 (cm) Joining Top (Black Finish) Size: W-105 x D-120 (cm) Fixed Side Return Desk Size :W-120 x D-60 x H-72(cm) Mobile Pedestal Size: W-40.5 x D-57 x H-50(cm).							
	superintendent room	1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 73560.35 / each						<b>Rs 73560.35</b>	
7	od18644/2019_2020 Supply, deliver and place Trademark registered branded (JALARAM Make-JSS 908) or approved equivalent Sofa Set Overall Size of 3 seater: H-762 x W-2134 x D-812 mm							
	waiting area	5					5.000	
	Total Quantity						5.000 each	
	Total Deducted Quantity						0.000 each	

	Net Total Quantity						5.000 each
	Say 5.000 each @ Rs 44038.56 / each						<b>Rs 220192.80</b>
8	<p>od18652/2019_2020</p> <p>Supply, deliver and place Trademark registered branded (JALARAM make-JED 204 (A)) or approved equivalent Executive table, both side storage unit of special size. 2 drawers cum filing drawer &amp; a center drawer, mounted on telescopic channel. Overall Size of curvica top: W-180 x D-90 cm ,Height of table 72.5 (cm) Material Specification: Two pedestals having 2 box drawers and 1 filing drawer with independent locking arrangement (cam lock) for each pedestal. Drawers shall have a clear depth of &gt; 400 mm. One center drawer having ~ 350 mm clear depth with independent locking arrangement. The top should be made of 25 mm thick Pre&amp;dash; laminated board(PLB) of TESA with 2 mm thick matching lipping. Under Structure: Two pedestals shall be a combination of processed wood (PLB) and Mild Steel (MS). Pedestal shell to be 0.80 mm thick MS sheet. Drawer tray to be made from 0.6 mm thick M.S sheet. Drawer separator to be made from 0.6 mm thick M.S. sheet. PLB drawer fronts (18 mm thick PLB) to match the top colour. Drawers to be mounted on double extension steel telescopic ball slides to give full access to the drawer. Sleek handles for easy grip. Glides screws for leveling.Stiffeners (1.6 mm thick) is to be provided under the top to give additional strength. Powder coating: Powder coating on all items with dry film thickness not less than 50 microns, Salt Spray test to withstand more than 1000 hours, Pencil scratch hardness more than 2H, Adhesion as per DIN 53152 Standards. The powder coating shall be of good quality (7 process) to ensure good adhesion of life of the coating. Modesty: Shall be made from 1.0 mm thick MS. Panel recessed inside for more leg room. Panel to be styled with cut&amp;dash;outs (windows) for better physical appearance.</p>						
	staff room	13					13.000
	cash	1					1.000
	Total Quantity						14.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						14.000 each
	Say 14.000 each @ Rs 25220.30 / each						<b>Rs 353084.20</b>
9	<p>od18655/2019_2020</p> <p>Supply, deliver and place registered branded (JALARAM make JSF 115(6) E) or approved equivalent slotted angle rack (Open type) Overall size: H-78" X W-36" X D-18" Angle: 40 x 40 x 2 mm (4 nos.) Shelves: 36" x 18" (22 swg. 6 nos.) Corner plate: 8 nos. Nuts &amp; bolts: 64 nos. Shoes: 4 nos. The raw material used will be PRIME quality CRCA as per IS 513 (1994,1998) 'D' grade. OEM must enclose Proof of purchase of steel from SAIL/Tata Steel/Essar/ Jindal. Finishing: All steel parts will be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating</p>						
	For store	10					10.000
	Total Quantity						10.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						10.000 each
	Say 10.000 each @ Rs 4964.91 / each						<b>Rs 49649.10</b>

10	od18662/2019_2020 Supply, deliver and place of Trademark registered branded (JALARAM make- JMPT 4A) or approved equivalent Table for with 25 mm top, square tubular frame. Overall size: W-151 x D-90 x H-75(cm) Material Description: Main top 25mm thick wood based high quality Pre-laminated Particle Board(PLB) of TESA with 2mm PVC edge band by hot melt glue process for beading all over edge. Top frame of 1.21mm thick. (18swg) CRAC sheet IS 513. Table frame structure made up of prime quality MS ERW square tube 25x25mm of 18swg. Good quality PVC Shoes. All steel parts should be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating.						
	class room	13					13.000
	GI room	3					3.000
	Total Quantity						16.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						16.000 each
	Say 16.000 each @ Rs 8239.56 / each						<b>Rs 131832.96</b>
11	od18665/2019_2020 Supply, deliver and place Trademark registered branded (JALARAM Make JEC 501(C))/Equivalent Executive Visitor Net Chair,  Overall Size (approx): H-98 x W-58 x D-63.5 (cm)  Seat Height: 48 (cm)  Frame structure: Backrest made of Mesh and Seat from hot mould plywood of minimum 12 mm thickness of ergonomic design to avoid back pain. Chrome-plated Arm & Frame 'Tapestry: Minimum average weight required 400 to 490 gms per sq. mtr.  Tapestry will be tested quality such as stain test, ultra violet test, glue test  and color fastening with average weight of 450 grams per square meter  Cushioning: PU foam having density of 50 kgs/m3 for seat. Average  thickness of foam not less than 50 mm + 10 mm Polly foam.  Arm rest material: Polyurethane on Chrome  Shoes: Nylon Rubber						
	Class room	13					13.000
	gi cabin	3					3.000
	staff room	13					13.000
	ws	3					3.000
	Total Quantity						32.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						32.000 each
	Say 32.000 each @ Rs 13013.71 / each						<b>Rs 416438.72</b>
12	od18669/2019_2020 Supply deliver and place Trademark registered branded (JALARAM Make-JSD 601(D))/equivalent Two Seater Desk Cum Bench fitted on tubular frame with perforated seat and back for Senior Students. Overall size : H-760 x W-1040 x D-1000 (mm)  Seat Height: 460 mm Desk Top (Curvica) of 25 mm thick wood based high quality branded (TESA) post formed Pre-laminated Particle Board (PLB )with 0.6mm laminated with 2mm PVC beading by hot melt glue process all over 4 edges.  Bench Main frame tube & Support tube of 32mm, 16swg ERW round tube.  Seat & Back						

	frame tube of 19mm, 16swg ERW round tube.  Seat & Back support of 25x25x1.6mm (16swg) thick. square ERW tube.  Seat & Back of 18swg. Perforated CRCA sheet IS 513.  Storage Bucket of 18swg. Perforated CRCA sheet IS 513.  Good quality PVC shoes & cap. All steel parts will be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating.						
	class room	10	15.000				150.000
	w/s	3	15.000				45.000
	Total Quantity						195.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						195.000 each
	Say 195.000 each @ Rs 8935.65 / each						<b>Rs 1742451.75</b>
13	od18673/2019_2020 Supply and install Jasos brand JC-S 03 Model or approved equivalent auditorium seating chair comprise of seat and back frames made with CR pipes, Back cover with PPCP tray, Up holstory PU molded form of density 52-58 kg/m3, Mechanisms as legs made of CR pipes with PU cup holder arm rest,push back mechanism - box and Nylon cast metal rollers, with spring, height of chair 97cm - 100cm @52cm centre to centre, 90x8mm with chemical bonding method, All seat and back frames with enamel painting, Legs - powder coated, Mechanism- Laqor paint finished.						
	seminar hall	200					200.000
	Total Quantity						200.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						200.000 each
	Say 200.000 each @ Rs 4847.99 / each						<b>Rs 969598.00</b>
14	od18677/2019_2020 Supply deliver and place trademark registered branded (JALARAM make JMDX 70) OR Equivalent Library reading cubical with top partition (Double side main unit + Add on unit)  Overall size: 1800W x 1200D x 760H mm  Top partition: 1750W x 18D x 250H mm  Material Description:  • Main top of 18mm thick. Wood based high quality Pre-laminated particle board (PLB) of TESA with 2 mm PVC beading all over  edges.  • Top partition & side partition of 18mm thick. Pre-laminated particle board (PLB) of TESA with 0.5mm PVC beading all over edges fitted with U bracket.  • Vertical pillar of 1.2mm thick. (18swg) CRCA sheet IS 513.  • Cable cover of 0.9mm thick. (20swg) CRCA sheet IS 513.  • Leg frame & footrest of 50x25x1.2mm thick. (18swg) ERW rectangular MS tube (CRC).  • Good quality adjustable stud .  • All steel parts should be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating (in house) & same will be demonstrated to the purchaser during pre-dispatch Inspection.						
	library	4					4.000
	Total Quantity						4.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						4.000 each

	Say 4.000 each @ Rs 24829.50 / each						<b>Rs 99318.00</b>	
15	od18682/2019_2020 Supply, deliver and place trademark registered branded (JALARAM make JSF 125(D)) OR Equivalent multipurpose expandable storage rack (Double Faced main Unit + Add on unit) in knock down design with 5 shelves making 6 compartments. Overall size: H-1980 x W-915 x D-535 mm • All steel parts will be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating (in house) & same will be demonstrated to the purchaser during pre-dispatch Inspection.							
	library	5					5.000	
	Total Quantity						5.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						5.000 each	
	Say 5.000 each @ Rs 32987.65 / each						<b>Rs 164938.25</b>	
16	od18683/2019_2020 Supply, deliver and place trademark registered branded (JALARAM make JSF 125(S)) OR Equivalent multipurpose expandable storage rack (Single faced main unit + Add on Unit) in knock down design with 5 shelves making 6 compartments.  Overall size: H-1980 x W-915 x D-380 mm  Material Specifications:  • All steel parts will be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating (in house) & same will be demonstrated to the purchaser during pre-dispatch Inspection.							
	library	5					5.000	
	Total Quantity						5.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						5.000 each	
	Say 5.000 each @ Rs 22366.54 / each						<b>Rs 111832.70</b>	
17	od18687/2019_2020 Supply, deliver and place trademark registered branded (JALARAM Make-JEC 325 (C)) or approved equivalent Executive Low Back Revolving Chair, Tested by approved BIFMA standard laboratories confirming to ANSI/BIFMAX 5.1- 2002 Cl. No. 5,7,8,12,13,17 on functional requirement, advanced synchro til mechanism, back rest height adjustment, 3-D wrap around design, tilt lock mechanism, self regulating tilt tension adjustment, seat depth adjustment, high quality moulded foam, pneumatic height adjustment.Overall Size (approx): H:87-104 x W:70 x D:70(cm) Seat height : 44 to 54 (cm) Frame structure: Seat & back from hot mould plywood of minimum 12 mm thickness of ergonomic design . Seat Height adjustment and ergonomics: With Pneumatic gas lift with 300 N force Stroke length of 12.5 cm. Seat height will be adjustable and optimum Height is 44-54 cm . Under structure facility: Revolving, Tilting and Lateral smooth movement on twin wheel castors fixed on five pronged wide base of 65 cm to 75 cm D. 'Tapestry Minimum average weight required 400 to 490 gms per sq. mtr. Tapestry : Tapestry should be tested quality such as stain test, ultra violet test, glue test and color fastening with average weight of 450 grams per square meter. (All the stitches of seat and back boarder should be covered by plastic beading of black cover for elegant look. Cushioning: PU foam having density of 40 kg for back and 50 kgs/m3 for seat. Average thickness of foam not less than 50 mm + 10 mm Polly foam. Base: Tested High							

	quality virgin material.Arm rest material: single piece round soft virgin quality PU handle reinforced with built steel rib.							
	library	30					30.000	
	Total Quantity						30.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						30.000 each	
	Say 30.000 each @ Rs 13339.92 / each						<b>Rs 400197.60</b>	
18	od18690/2019_2020 Supply, deliver and place registered branded (JALARAM make-JDT-706 A) or approved equivalent canteen table for 6 persons Overall Size of the table:L-1600 x W-800 x H-750 mm Material Description: Main top of 30mm thick. Post formed MDF top with 0.6mm lamination & longer edges both side post forming (curvica) & other both side PVC edge band by hot melt glue process for beading with matching colour. Top frame of 25x25x1.2mm (18swg) SS 304 grade square tube. Main vertical legs of 60 to 65mm x 1.6mm (16swg) thick. SS 304 or SS 202 grade round tube. Leg support & Footrest of 30mm x 1.6mm (16swg) thick. SS 304 or SS 202 grade round table. Good quality PVC adjustable stud at table. All SS parts with glossy buffing.Trademark registered branded (JALARAM make) canteen chair. Overall Size of the chair: H-900mm Seat Dia:400mm Seat Height:450mm Material Description: Chair frame of OD-19mm x 16swg SS 304 grade pipe with glossy buffing. Back support of OD-12mm tube SS 304 grade with Glossy buffing. Seat top (400mm Round) of 19mm thick. Wooden (Rubber wood) with melamine coated. Good quality PVC shoes at bottom , All SS parts with glossy buffing.							
	staff room	2					2.000	
	Total Quantity						2.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						2.000 each	
	Say 2.000 each @ Rs 40344.40 / each						<b>Rs 80688.80</b>	
19	od18694/2019_2020 Supply and installation of Podium : 600x600x 1200mm ht.							
	CLASS ROOMS	10					10.000	
	SEMINAR HALL	1					1.000	
	Total Quantity						11.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						11.000 each	
	Say 11.000 each @ Rs 19686.44 / each						<b>Rs 216550.84</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>7 MAIN BUILDING - ELV WORKS</b>								

1	od19121/2019_2020 Supply, installation, testing and commissioning of Bio Metric Finger Print scan attendance system with LCD/LED display & keypad & TCPIP LAN, USB Connectivity along with Attendance monitoring & report software (Web based Terminal)						
		4					4.000
	Total Quantity						4.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						4.000 no
	Say 4.000 no @ Rs 7600.00 / no						<b>Rs 30400.00</b>
2	od19347/2019_2020 Supply, installation, testing and commissioning of Cat6 I/O for Patch Panel Shuttered.						
		48					48.000
		48					48.000
	Total Quantity						96.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						96.000 no
	Say 96.000 no @ Rs 220.00 / no						<b>Rs 21120.00</b>
3	od19324/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps 16 Port Network Switch to provide networks and internet on class room etc.						
		4					4.000
	Total Quantity						4.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						4.000 no
	Say 4.000 no @ Rs 6250.00 / no						<b>Rs 25000.00</b>
4	od19299/2019_2020 Supply, Installation, testing and commissioning of Cat6 24 Port un loaded Patch Panel.						
		4					4.000
	Total Quantity						4.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						4.000 no
	Say 4.000 no @ Rs 1600.00 / no						<b>Rs 6400.00</b>
5	od19362/2019_2020 Supply and drawing of CAT6 4 pair cable including all necessary connector.						
		1720					1720.000

							Total Quantity	1720.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	1720.000 metre
							Say 1720.000 metre @ Rs 39.00 / metre	<b>Rs 67080.00</b>
6	od19125/2019_2020 Supply, installation, testing and commissioning of wall mounted 15Ux600Wx600D With Front Glass Door With Lock & Key,Side Openable Panels with Lock & Key,6Way 5A PDU,1U Cable Manager,Cooling Fan,H/W Kit10							
			4					4.000
							Total Quantity	4.000 no
							Total Deducted Quantity	0.000 no
							Net Total Quantity	4.000 no
							Say 4.000 no @ Rs 8625.00 / no	<b>Rs 34500.00</b>
7	od19131/2019_2020 Network Video Recorder:  Providing & fixing Network Video Recorder 32-channel 720P or 24-channel 1080P high definition network video input and storage Support simultaneous HDMI and VGA output, resolution up to 1920x1080P/60Hz Supports 256Mbps bandwidth throughput handling, Supports 4-channe, 1080P video real-time decoding and synchronous playback Supports 8 SATA hard disk with capacity up to 4TB.							
			1					1.000
							Total Quantity	1.000 no
							Total Deducted Quantity	0.000 no
							Net Total Quantity	1.000 no
							Say 1.000 no @ Rs 50200.00 / no	<b>Rs 50200.00</b>
8	od19145/2019_2020 Supply, installation, testing and commissioning of Outdoor IR IP bullet camera 2 MP 2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity,with IR 480TV lines.							
			8					8.000
							Total Quantity	8.000 no
							Total Deducted Quantity	0.000 no
							Net Total Quantity	8.000 no
							Say 8.000 no @ Rs 10263.00 / no	<b>Rs 82104.00</b>
9	od19147/2019_2020 Supply, installation, testing and commissioning of indoor IR IP dome camera 2 MP  2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity, with IR n 480 TV lines.							
			45					45.000



					Total Quantity	45.000 no
					Total Deducted Quantity	0.000 no
					Net Total Quantity	45.000 no
					Say 45.000 no @ Rs 5945.00 / no	<b>Rs 267525.00</b>
10	od19266/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.					
		1	580.000			580.000
					Total Quantity	580.000 no
					Total Deducted Quantity	0.000 no
					Net Total Quantity	580.000 no
					Say 580.000 no @ Rs 69.00 / no	<b>Rs 40020.00</b>
11	od19269/2019_2020 Supply, Installation, Testing and commissioning of XLR cables and connectors					
		6				6.000
					Total Quantity	6.000 no
					Total Deducted Quantity	0.000 no
					Net Total Quantity	6.000 no
					Say 6.000 no @ Rs 2025.00 / no	<b>Rs 12150.00</b>
12	od18661/2019_2020 Supply, Installation, Testing and commissioning of Distribution box for PA distribution made out of 16 SWG CRCA sheet with lockable door arrangement having connectors (10 NOS) suitable for 1.5sqmm wire with facility for cable termination of 4cx10 sqmm ALAR. Required at each floor for PA wire termination.					
		1				1.000
					Total Quantity	1.000 no
					Total Deducted Quantity	0.000 no
					Net Total Quantity	1.000 no
					Say 1.000 no @ Rs 979.00 / no	<b>Rs 979.00</b>
13	od18668/2019_2020 SITC Of 350W RMS MIXER AMPLIFIER, 3 MIC, 2 AUX, 100V/70V AND 4OHMS , BALANCED MIC,FREQUENCY RESPONSE (50 HZ-16000HZ),S/N RATIO-MIC1,2,3,4:66DB;AUX 1:80 DB,THD-LESS THAN 1% AT 1 KHZ,1/3 RATED POWER, MUTING FUNCTION-MIC 1 OVERRIDES OTHER INPUT SIGNALS WITH 0-30 DB ATTENUATION,CONTROLS-INDIVIDUAL GAIN CONTROLS, POWER SWITCH;BASS: 10DB AT 100HZ,TREBLE: 10DB AT10000HZ.					
		1				1.000

								Total Quantity	1.000 no
								Total Deducted Quantity	0.000 no
								Net Total Quantity	1.000 no
								Say 1.000 no @ Rs 32893.00 / no	<b>Rs 32893.00</b>
14	od18672/2019_2020 Supply, installation, testing and commissioning of Telephone socket.								
		14							14.000
								Total Quantity	14.000 no
								Total Deducted Quantity	0.000 no
								Net Total Quantity	14.000 no
								Say 14.000 no @ Rs 260.00 / no	<b>Rs 3640.00</b>
15	od19270/2019_2020 Supply,Installation, Testing & commissioning of Telephone of approved makes including all other accessories for connection.								
		14							14.000
								Total Quantity	14.000 no
								Total Deducted Quantity	0.000 no
								Net Total Quantity	14.000 no
								Say 14.000 no @ Rs 1130.00 / no	<b>Rs 15820.00</b>
16	od18678/2019_2020 Supply & Installation of telephone cable 10 pair through PVC conduit.								
		1	60.000						60.000
								Total Quantity	60.000 metre
								Total Deducted Quantity	0.000 metre
								Net Total Quantity	60.000 metre
								Say 60.000 metre @ Rs 78.00 / metre	<b>Rs 4680.00</b>
17	od18679/2019_2020 Supply & Installation of UG telephone cable jelly filled, 10 pair								
		40							40.000
		20							20.000
								Total Quantity	60.000 metre
								Total Deducted Quantity	0.000 metre
								Net Total Quantity	60.000 metre
								Say 60.000 metre @ Rs 145.00 / metre	<b>Rs 8700.00</b>

18	od18686/2019_2020 Supply, installation, testing and commissioning of 20 PAIR BOX WITH KRONE MODULES						
		1					1.000
	Total Quantity						1.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						1.000 no
	Say 1.000 no @ Rs 1387.00 / no						<b>Rs 1387.00</b>
19	od19271/2019_2020 Supply, installation, testing and commissioning of Telephone system: NEC Digital Key Telephone System Model-SL2100 32 Bit Micro Processor Configured as 08 P&T lines 48 Hybrid Ports EXPANDABLE MODEL UP TO 128 PCM/TDM 100 % Non-Blocking Inbuilt Conference,32 party Auto attendant (single channel) CLI based call routing AND ALL STANDARD FEATURES						
		1					1.000
	Total Quantity						1.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						1.000 no
	Say 1.000 no @ Rs 200650.00 / no						<b>Rs 200650.00</b>
20	od18629/2019_2020 Supply, installation, testing and commissioning of LAN socket.						
		24					24.000
	Total Quantity						24.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						24.000 no
	Say 24.000 no @ Rs 260.00 / no						<b>Rs 6240.00</b>
21	od18633/2019_2020 Supply and installation of GI box for modular switch installation including base plate and front plate 1/2 M						
		38					38.000
	Total Quantity						38.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						38.000 no
	Say 38.000 no @ Rs 234.00 / no						<b>Rs 8892.00</b>
22	od19273/2019_2020 Supply, installation, testing and commissioning of 24 Port 10/100/1000 Mbps PoE Switch.						
		4					4.000
	Total Quantity						4.000 no

									Total Deducted Quantity	0.000 no
									Net Total Quantity	4.000 no
									Say 4.000 no @ Rs 26805.00 / no	<b>Rs 107220.00</b>
23	od19358/2019_2020 Supply, Installation, Testing and commissioning of 6W Wall mount speakers with perforated metal grille with line matching transformer suitable for 4 ohm impedance 200 mm dia LBD 0606/10									
			26							26.000
									Total Quantity	26.000 no
									Total Deducted Quantity	0.000 no
									Net Total Quantity	26.000 no
									Say 26.000 no @ Rs 1350.00 / no	<b>Rs 35100.00</b>
24	od69992/2019_2020 Supply, installation, Testing and commissioning of 19" Flat Screen VGA colour monitor complete with all other accessories as required.									
			1							1.000
									Total Quantity	1.000 each
									Total Deducted Quantity	0.000 each
									Net Total Quantity	1.000 each
									Say 1.000 each @ Rs 8711.00 / each	<b>Rs 8711.00</b>
25	od19350/2019_2020 Supply and laying of Cat6 Outdoor cable									
			1	160.000						160.000
									Total Quantity	160.000 metre
									Total Deducted Quantity	0.000 metre
									Net Total Quantity	160.000 metre
									Say 160.000 metre @ Rs 45.00 / metre	<b>Rs 7200.00</b>
26	od19296/2019_2020 Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all other accessories. Active inspire software will be complimentary with Promethean board.									
			4							4.000
									Total Quantity	4.000 no
									Total Deducted Quantity	0.000 no
									Net Total Quantity	4.000 no
									Say 4.000 no @ Rs 34000.00 / no	<b>Rs 136000.00</b>
27	od19301/2019_2020									

	Supply, installation, testing, and commissioning of LT Projector and roof mount for LT projector complete with all accessories as required.							
		4					4.000	
	Total Quantity						4.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						4.000 set	
	Say 4.000 set @ Rs 24590.00 / set						<b>Rs 98360.00</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>8 NEW SMART CLASSROOM - ELV WORKS</b>								
1	od19362/2019_2020 Supply and drawing of CAT6 4 pair cable including all necessary connector.							
		1	660.000				660.000	
	Total Quantity						660.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						660.000 metre	
	Say 660.000 metre @ Rs 39.00 / metre						<b>Rs 25740.00</b>	
2	od19147/2019_2020 Supply, installation, testing and commissioning of indoor IR IP dome camera 2 MP  2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity, with IR n 480 TV lines.							
		20					20.000	
	Total Quantity						20.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						20.000 no	
	Say 20.000 no @ Rs 5945.00 / no						<b>Rs 118900.00</b>	
3	od19266/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.							
		1	200.000				200.000	
	Total Quantity						200.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						200.000 no	
	Say 200.000 no @ Rs 69.00 / no						<b>Rs 13800.00</b>	
4	od18629/2019_2020 Supply, installation, testing and commissioning of LAN socket.							
		20					20.000	

										Total Quantity	20.000 no
										Total Deducted Quantity	0.000 no
										Net Total Quantity	20.000 no
										Say 20.000 no @ Rs 260.00 / no	<b>Rs 5200.00</b>
5	od18633/2019_2020 Supply and installation of GI box for modular switch installation including base plate and front plate 1/2 M										
			20								20.000
										Total Quantity	20.000 no
										Total Deducted Quantity	0.000 no
										Net Total Quantity	20.000 no
										Say 20.000 no @ Rs 234.00 / no	<b>Rs 4680.00</b>
6	od19121/2019_2020 Supply, installation, testing and commissioning of Bio Metric Finger Print scan attendance system with LCD/LED display & keypad & TCPIP LAN, USB Connectivity along with Attendance monitoring & report software (Web based Terminal)										
			10								10.000
										Total Quantity	10.000 no
										Total Deducted Quantity	0.000 no
										Net Total Quantity	10.000 no
										Say 10.000 no @ Rs 7600.00 / no	<b>Rs 76000.00</b>
7	od19358/2019_2020 Supply, Installation, Testing and commissioning of 6W Wall mount speakers with perforated metal grille with line matching transformer suitable for 4 ohm impedance 200 mm dia LBD 0606/10										
			20								20.000
										Total Quantity	20.000 no
										Total Deducted Quantity	0.000 no
										Net Total Quantity	20.000 no
										Say 20.000 no @ Rs 1350.00 / no	<b>Rs 27000.00</b>
8	od19301/2019_2020 Supply, installation, testing, and commissioning of LT Projector and roof mount for LT projector complete with all accessories as required.										
			10								10.000
										Total Quantity	10.000 set
										Total Deducted Quantity	0.000 set
										Net Total Quantity	10.000 set

	Say 10.000 set @ Rs 24590.00 / set						<b>Rs 245900.00</b>	
9	od19296/2019_2020 Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all other accessories. Active inspire software will be complimentary with Promethean board.							
		10					10.000	
	Total Quantity						10.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						10.000 no	
	Say 10.000 no @ Rs 34000.00 / no						<b>Rs 340000.00</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>9 CONTINGENCIES</b>								
Lump-Sum Total						<b>Rs 902001.00</b>		
Provision for GST payments (in %) @							<b>12.0%</b>	
Amount reserved for GST payments						<b>10706615.08</b>		
Total						<b>99928407.08</b>		
Lumpsum for round off						<b>0.00</b>		
						<b>TOTAL Rs 99928407.08</b>		
						<b>Rounded Total Rs 9,99,28,407</b>		
Rupees Nine Crore Ninety Nine Lakh Twenty Eight Thousand Four Hundred and Seven Only								

(Cost Index Applied for this estimate is 31.06%)

Other Engineering Organisations  
**PRICE**