Cost Estimate (on DSR 2021/ Market rate basis) of Single

Name of work : Construction of Eklavya Model Residential School (EMRS) at Block - Pathna, District Sahibganj, Jharkhand

SUMMARY SHEET

S.No	PARTICULARS	School building (G+2)	Hostel Boys G+2 w/o Kitchen Flat Roof	Hostel Girls G+2 w/o Kitchen Flat Roof	Principal Residence	Kitchen & Dining	Type-III Quarters (18 Nos.) plus 1 no. Guest House & 2 no. Warden	Type-II Quarters (10 Nos.) in Single Block	Security Cabin & Entrance Gate	Misc. Building (ESS Building)	Underground Sump & Pump Room	Site Levelling	Retaining Wall & Stone Pitching	Sports	Septic Tank & Soak Pit	Road	Boundary Wall	AMOUNT (IN RS)	
																		DSR	NON DSR
	CIVIL WORKS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
1	Earth Work	8,35,709.60	7,00,354.45	7,00,354.45	88,982.15	10,48,599.75	4,71,014.15	2,85,695.35	9,722.00	72,655.15	83,726.85	54,22,482.40	6,43,751.16	6,21,386.96	5,74,454.40	-	6,93,116.00	1,22,52,004.82	
2	Concrete Work	13,13,626.44	10,34,013.45	10,34,013.45	1,43,106.70	5,74,916.75	7,65,628.75	4,31,850.30	28,217.95	94,776.30	51,401.85	-	8,27,912.80	17,37,039.64	1,69,418.20	9,68,104.00	9,51,916.40	1,01,25,942.98	
3	Reinforced Cement Concrete	3,25,51,440.67	2,62,93,907.77	2,62,93,907.77	13,67,733.61	75,70,075.48	1,43,60,698.84	1,05,23,135.44	1,91,113.62	7,32,587.12	11,01,575.34	-	-		39,85,432.00	5,71,787.70	77,04,151.49	13,32,47,546.83	
4	Masonry Work	55,14,310.80	49,59,984.80	49,59,984.80	4,65,571.40	13,82,092.80	45,53,619.80	21,45,440.20	48,495.90	2,76,666.60	72,807.00	-	-		-	-	25,69,661.75	2,69,48,635.85	
5	Stone Work	-	-	-	-	-	-	-	-	-	-	-	1,54,81,817.80		-	-	-	1,54,81,817.80	
6	Cladding Work	11,08,340.80	9,11,376.65	9,11,376.65	49,046.30	5,84,795.85	9,49,854.25	3,75,215.85	-	-	-	-	-		-	-	-	48,90,006.35	
7	Wood & PVC Work	8,00,647.30	9,63,910.00	9,63,910.00	73,044.60	1,74,201.05	6,90,223.80	3,90,913.75	5,707.25	-	9,688.45	-	-		-	-	-	40,72,246.20	
8	Steel Work	32,80,182.35	25,99,532.15	25,99,532.15	1,21,156.45	12,53,511.85	14,18,670.10	8,09,776.25	1,28,725.70	1,92,080.70	5,062.35	-	-	4,90,415.00	-	-	-	1,28,98,645.05	
9	Flooring	50,33,819.15	41,57,039.97	41,57,039.97	1,93,872.50	15,43,489.65	19,82,673.30	10,55,230.70	8,636.45	50,287.50	11,310.00	-	-	13,06,372.20	-	-	-	1,94,99,771.38	
10	Roofing	3,14,052.25	55,049.40	55,049.40	14,070.00	2,43,726.15	69,061.80	33,623.40	1,307.40	46,651.50	4,169.60			64,468.80	-	-	-	9,01,229.70	
11	Finishing	52,41,954.35	48,64,169.60	48,64,169.60	3,61,496.20	8,34,685.35	41,97,899.50	22,10,156.50	30,882.75	1,99,624.25	58,547.50	-	-	2,44,409.20	1,54,752.00	-	22,35,530.70	2,54,98,277.50	
12	Aluminium Work	73,344.25	57,259.05	57,259.05	-	79,153.80	-	-	71,575.65	-	-	-	-		-	-	-	3,38,591.80	
13	Water Proofing	13,21,626.30	14,98,012.75	14,98,012.75	2,02,574.25	10,97,821.25	9,35,427.00	5,14,954.45	4,568.85	1,50,772.05	1,05,973.40	-	-		-	-	-	73,29,743.05	
14	Road Work	-	-		-	-	-	-	-	-	-	-	30,20,818.45	31,34,985.10	-	67,41,507.41	7,55,855.25	1,36,53,166.20	
15	Non-Schedule Items	11,62,671.00	13,45,438.50	13,45,438.50	71,092.00	2,53,277.00	7,62,848.50	4,68,830.00	6,354.50	6,503.00	1,700.00	-	-		-	3,400.00	-		54,27,553.00
	TOTAL AMOUNT (DSR)	**5,73,89,054**	**4,80,94,610**	**4,80,94,610**	**30,80,654**	**1,63,87,070**	**3,03,34,771**	**1,87,75,992**	**5,28,954**	**18,16,101**	**15,04,262**	**54,22,482**	**1,99,74,300**	**75,99,077**	**48,84,057**	**82,81,399**	**1,49,10,232**	**28,71,37,625.50**	
	TOTAL AMOUNT (NON DSR)	**11,62,671**	**13,45,439**	**13,45,439**	**71,092**	**2,53,277**	**7,62,849**	**4,68,830**	**6,355**	**6,503**	**1,700**	**0**	**0**	**0**	**0**	**3,400**	**0**	**0**	**54,27,553.00**
	GRAND TOTAL (CIVIL WORKS) (In Rs)																	**28,71,37,625.50**	**29,25,65,178.50**
	PLUMBING WORKS																		
16	Sanitary Installations																	24,79,612.58	4,74,881.84
17	Drainage Installations																	3,72,422.80	12,26,076.20
18	Water supply Installations																	18,19,195.10	40,862.05
19	External Sewage Drainage System																	30,18,734.73	
20	External Storm Water Drainage System																	37,36,326.12	
21	External Fresh Water Supply System																	13,43,078.75	
22	Bore well																	1,54,075.30	
	TOTAL AMOUNT (DSR)																	**1,29,23,445.37**	
	TOTAL AMOUNT (NON DSR)																		**17,41,820.09**
	GRAND TOTAL (PLUMBING WORKS) (In Rs)																		**1,46,65,265.46**
	FIRE FIGHTING WORKS																		
24	Piping & Valves																	6,38,081.30	2,025.00
25	Fire Hydrant Accessories																	1,56,150.00	
26	Fire Extinguishers & Miscellaneous Items																		1,31,601.00
27	Fire Pumps & Accessories																	3,13,341.00	1,04,967.00
	TOTAL AMOUNT (DSR)																	**11,07,572.30**	
	TOTAL AMOUNT (NON DSR)																		**2,38,593.00**
	GRAND TOTAL (FIRE FIGHTING WORKS) (In Rs)																		**13,46,165.30**
	ELECTRICAL WORKS (Internal)																		
28	Internal Wiring																	1,12,70,516.00	30,420.00
29	Distribution Boards & MCB's																	9,32,001.00	71,687.00
30	Telephone, Television & Data System (socket,wiring & conduting only)																	7,61,415.00	16,434.00
31	Light Fixtures & Fan																	7,67,509.00	20,28,266.00
	TOTAL AMOUNT (DSR)																	**1,37,31,441.00**	
	TOTAL AMOUNT (NON DSR)																		**21,46,807.00**
	GRAND TOTAL (ELECTRICAL WORKS INTERNAL) (In Rs)																		**1,58,78,248.00**
	ELECTRICAL WORKS (External)																		
32	Transformer and HT Panel																		11,80,113.00
33	LT Panel, Feeder Pillar and Capacitor Panels																		13,52,480.00
34	LT Cables																	8,42,081.00	23,99,435.00
35	HT Cables																	51,712.00	90,750.00
36	Miscellaneous																	9,277.00	19,999.00
37	Earthing																	4,02,718.00	
38	Pole Erection																	4,13,679.00	
39	External Lightine System																	5,65,855.00	17,59,959.00
40	UPS - 10 KVA																		2,25,122.00
41	Lightning Arrestor System for Transformer																		12,021.00
42	Pumps																		2,67,376.00
43	CCTV System																	1,81,560.00	5,71,067.00
44	Lightning Conductor																	3,61,529.00	
45	62.5 KVA DG Set and associated works																		7,28,820.00
	TOTAL AMOUNT (DSR)																	**28,28,411.00**	
	TOTAL AMOUNT (NON DSR)																		**86,07,142.00**
	GRAND TOTAL (ELECTRICAL WORKS EXTERNAL) (In Rs)																		**1,14,35,553.00**
	Furniture																		**1,76,73,144.00**
	GRAND TOTAL (Furniture) (In Rs) (NON DSR)																		**1767314.4**
	Kitchen Equipments																		**24,26,215.88**
	GRAND TOTAL (Kitchen Equipmenr) (In Rs) (NON DSR)																		**24,26,215.88**
																		TOTAL (A with 12% GST) (In Rs)	**35,59,89,770.13**

	DSR Item with 12% GST	Non DSR Item with 12% GST
	31,77,28,495.17	3,82,61,274.97
DSR & Non DSR Item with 18% GST	33,47,49,664.55	4,03,10,986.13
Gross Amount with 18 % GST		37,50,60,650.68

SCHEDULE OF QUANTITIES

Name of work : Construction of Eklavya Model Residential School (EMRS) at Block - Pathna, District Sahibganj, Jharkhand

S. No.	DSR 2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (18	7 Type-II Quarters (10 Nos.) in Single	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-	11 Site Levelling	12 Retaining Wall & Stone Pitching	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
		CIVIL WORKS																				
1.0	**2**	**Earth Work**																				
0.01	2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:																				
1.01.1	2.1.1	All kinds of soil	Cum													5800.00				5800	107.00	6,20,600.00
1.01	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50m and lift upto 1.5m, as																				
1.01.1	2.6.1	All kinds of soil	Cum	84	75	75		128.00	52.00				213.00	19074.00			1004.00		1679.00	22384	205.45	45,98,792.80
1.02	2.7	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 getting out and disposal of excavated earth lead upto 50m and lift upto 1.5m, as																				
1.02.1	2.7.1	Ordinary Rock	Cum	84	75	75	9.00	128.00	52.00	34.00										457	412.95	1,88,718.15
1.02.02	2.7.3	Hard rock (blasting prohibited)	Cum	84	75	75	9.00	128.00	52.00	34.00										457	1184.30	5,41,225.10
1.03	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed within al lead of 50m.																				
1.03.1	2.8.1	All kinds of soil.	Cum	421	374	374	43.00	641.00	260.00	170.00	16.00	122.00			1362.29	3.60				3787	218.60	8,27,814.62
1.04	2.9	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soils																				
1.04.01	2.9.1	Ordinary Rock	Cum	84	75	75	9.00	128.00	52.00	34.00										457	523.50	2,39,239.50
1.04.02	2.9.3	Hard rock (blasting prohibited)	Cum	84	75	75	9.00	128.00	52.00	34.00										457	1258.60	5,75,180.20
1.05	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto	Cum	764.00	807.00	807	100.00	1,345.00	565.00	339.00	16.00	113.00	120.00	4528.00	1362.29		1004.00		1371.00	13241	253.95	33,62,626.14
1.06	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials																				
1.06.01	2.26.1	All kinds of soil	Cum										105.00				583.00			688	90.40	62.195.20
1.07	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete	Cum	115.00	67.00	67	11.00	50.00	39.00	22.00	1.00	8.00					28.00			408	2161.20	8,81,769.60
1.08	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50m outside the periphery of the area cleared.	Sqm											24403.00						24403	14.50	3,53,843.50
		Total of sub-head (1.0)		**835709.60**	**700354.45**	**700354.45**	**88982.15**	**1048599.75**	**471014.15**	**285695.35**	**9722.00**	**72655.15**	**83726.85**	**5422482.40**	**643751.16**	**621386.96**	**574454.40**		**693116.00**		**12252004.82**	**1.22.52.004.82**
2.0	**4**	**Concrete Work**																				
2.01	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :																				
2.01.1	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	1.00	2.00	2.00	1.00		1.50	1.00					143.00					152	5789.60	8,77,124.40
2.01.2	4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources: 10 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	153.00	110.00	110.00	15.00	68.00	77.00	41.00	2.00	10.00	7.00			129.10	28.00	160.00	102.00	1012	6050.65	61,23,862.87
2.01.2	4.1.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size)	Cum													129.787				130	7365.15	9,55,900.72

S. No.	DSR 2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (18	7 Type-II Quarters (10 Nos.) in Single	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-	11 Site Levelling	12 Retaining Wall & Stone Pitching	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
2.02	Derived from basic rates of DSR 2019	Providing and laying broken autoclaved aerated cement (AAC) blocks and/or bats (light weight, having density 550-650 kg/m^3) of nominal size 25mm to 65mm in the sunken portion of toilets upto floor five level all complete as per the direction of Engineer-in-charge.	Cum	28.00	54.00	54.00			29.00	21.00										186	2488.20	4,62,805.20
2.03	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and																				
2.03.1	4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	17.00	5.00	5.00	1.00	2.00	5.00	2.00	1.00	1.00	1.00						37.00	77	9047.30	6,96,642.10
2.04	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :																				
2.03.1	4.3.1	Foundations, footings, bases for columns	Sqm	63.78	59.00	59	9.00	47.00	107.00	67.00	4.00									416	332.10	1,38,080.54
2.05	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources: 4 graded stone aggregate 12.5mm nominal size derived from	Sqm	119.00	127.00	127.00	22.00	61.00	74.00	51.00	2.00									583	370.85	2,16,205.55
2.06	4.13	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a	Sqm	119.00	127.00	127	22.00	61.00	74.00	51.00	2.00	6.00								589	113.85	67,057.65
2.07	4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary	Sqm	117.00	141.00	141	35.00	147.00	150.00	89.00	7.00	36.00								863	681.65	5,88,263.95
		Total of sub-head (2.0)		**1313626.44**	**1034013.45**	**1034013.45**	**143106.7**	**574916.75**	**765628.75**	**431850.3**	**28217.95**	**94776.3**	**51401.85**		**827912.8**	**1737039.638**	**169418.2**	**968104**	**951916.4**		**10125942.98**	**1,01,25,942.98**
3.0	**5**	**Reinforced Cement Concrete**																				
3.01	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :																				
3.01.1	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	1062.00	367.00	367	31.00	71.00	204.00	136.00	9.00	53.00	8.00				50.00		1141.00	3499	332.10	11,62,017.90
3.01.2	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	63.00	91.00	91	15.00	35.00	168.00	111.00			176.00				958.00			1708	702.00	11,99,016.00
3.01.3	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	2456.00	2146.00	2146	115.00	492.00	1266.00	666.00	3.00	71.00	59.00				151.00			9571	766.55	73,36,650.05
3.01.4	5.9.4	Shelves (Cast in situ)	Sqm	92.00	527.00	527	3.00	51.00	44.00	24.00										1268	766.55	9,71,985.40
3.01.5	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	2222.00	2643.00	2643	185.00	743.00	1746.00	913.00	5.00	41.50	29.00						986.00	12157	608.35	73,95,406.78
3.01.6	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	1441.00	1593.00	1593	82.00	507.00	984.00	863.00	54.00	68.00	20.00						853.00	8058	804.25	64,80,646.50
3.01.7	5.9.7	Stairs, (excluding landings) except spiral-staircases	Sqm	83.00	62.00	62			36.00	27.00										270	657.75	1,77,592.50
3.01.7A	5.9.14	Extra for shuttering in circular work (20% of respective centering and shuttering items)	Sqm	22.00	18.00	18														58	146.61	8,503.38
3.01.8	5.9.15	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	Sqm	2.00	5.00	5	1.00	5.00	3.00	2.00	1.00	1.00								25	332.10	8,302.50
3.01.9	5.9.16	Edges of slabs and breaks in floors and walls																				
	5.9.16.1	Under 20 cms wide	Metre	142.00	100.00	100	5.00	80.00	74.00	40.00	9.00	30.00								580	181.90	1,05,502.00
3.01.10	5.9.19	Weather shade, Chajjas, corbels etc., including edges	Sqm	207.00	147.00	147	11.00	21.00	264.00	319.00	3.00	3.00								1122	814.95	9,14,373.90
3.01.11	5.11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be																				
	5.11.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	Sqm	3234.00																3234	319.25	10,32,454.50
3.01.12	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level																				
	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more	kg	31263.00	27904.00	27904	1680.00	14453.00	15500.00	10000.00	356.00	967.00	5053.00				19562.00		23944.00	178586	89.65	1,60,10,234.90
3.01.13	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level																				
	5.22A.5	Hard drawn steel wire fabric	Kg																		92.15	-
	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more	kg	130800.00	103719.00	103719	4550.00	21700.00	51740.00	40820.00	444.00	2280.00						6378.00	9442.00	475592	89.65	4,26,36,822.80
3.01.14	5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections	Metre	549.00	100.00	100	6.00	74.00	111.00	40.00										980	64.70	63,406.00
3.01.15	5.33	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/ less cement used as per design																				
	5.33.1	All works upto plinth level	Cum	357.24	319.00	319	21.00	173.00	155.00	100.00	4.00	13.00	45.00				163.00		281.00	1950	8683.80	1,69,35,479.44
	5.33.2	All works above plinth level upto floor V level.	Cum	872.00	691.00	691	35.00	155.00	398.00	314.00	3.00	18.00	4.00						59.00	3240	8964.75	2,90,45,790.00
3.01.16	5.34	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable /recoverable separately.																				

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	5.34.1	Providing M-30 grade concrete instead of M-25 grade BMC/ RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum)	Cum	35.00	26.00	26		5.00					45.00				163.00			300	69.75	20,925.00
0.01	5.34.1 (Modified)	Deduct for providing M-20 grade concrete instead of M-25 grade machine batched and machine mixed design mix for reinforced cement concrete work (Note:- Cement content considered in M-25 and M-20 is @ 330 kg/cum and 300 kg/cum respectively) (this item is applicable for RCC in grade slab only)	Cum	74.00	67.00	67.00			47.00											255	-230.90	(58,879.50)
3.01.17	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	quintal	405.65	333.30	333	18.48	108.24	182.49	136.62	2.31	10.23	16.17						112.20	1659	688.45	11,42,130.73
3.01.18	5.43	Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion																				
	5.43.1	200 mm wide.	Metre	49.00																49	747.25	36,615.25
3.01.19	5.44 (Modified)	Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical localtion in load application areas that accommondates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments																				
		The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self - centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in-Charge. (Material shall confirm to																				
	5.44.1	Floor Joint of 50 mm gap	Metre	49.00																49	4390.70	2,15,144.30
3.01.20	5.45 (Modified)	Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In- Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the																				
	5.45.1	Wall Joint of 50 mm gap	Metre	79.00																79	4123.10	3,25,724.90
3.01.21	5.46 (Modified)	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arragement support plates asper ASTM B221-02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate																				
		The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's preengineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall confirm to																				
	5.46.1	Roof Joint of 50 mm gap	Metre	17.00																17	4658.30	79,191.10
3.01.22	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality																				
	19.19.1	I.D-2.5																				
	19.19.1.1	Rectangular shape 600x450mm internal dimensions	Each										2							2	1255.25	2,510.50
3.01.23	19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design																				
	19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each																		25278.75	-
		Total of sub-head (3.0)		**32551440.67**	**26293907.77**	**26293907.77**	**1367733.606**	**7570075.478**	**14360698.84**	**10523135.44**	**191113.6195**	**732587.1185**	**1101575.337**				**3985432**	**571787.7**	**7704151.49**	**133247546.8**		**13,32,47,546.83**
4.0	**6**	**Masonry Work**																				

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4.01	6.1	Brick work with common **burnt clay** F.P.S. (non modular) bricks of class designation 7.5 **in foundation** and plinth in:																				
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	104.00	61.00	61.00	11.00	30.00	44.00	26.00	2.00								303.00	642	6046.20	38,81,660.40
4.02	6.1 (Modified)	Brick work with **non modular fly ash bricks** conforming to IS:12894, class designation 10 average compressive strength **in foundation** and plinth in:																				
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum																		6025.25	-
4.03	6.4	Brick work with common **burnt clay** F.P.S. (non modular) bricks of class designation 7.5 **in superstructure** above plinth level up to floor V level in all shapes and sizes in :																				
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum																89.00	89	8288.35	7,37,663.15
4.04	6.34	Brick work with **non modular fly ash bricks** conforming to IS:12894, class designation 10 average compressive strength **in super structure** above plinth level up to floor V level in																				
	6.34.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	580.00	493.00	493.00	36.00	159.00	500.00	230.00	5.00	38.00	10.00							2544	7280.70	1,85,22,100.80
4.05	6.45	**Half brick** masonry with **non modular fly ash bricks** of class designation 10, conforming IS :12894, in super structure above plinth and upto floor V level.																				
	6.45.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	600.00	907.00	907.00	124.00	39.00	586.00	284.00										3447	1018.05	35,09,218.35
4.06	6.15	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry	Sqm	600.00	907.00	907.00	124.00	39.00	586.00	284.00										3447	86.45	2,97,993.15
		Total of sub-head (4.0)		**5514310.8**	**4959984.8**	**4959984.8**	**465571.4**	**1382092.8**	**4553619.8**	**2145440.2**	**48495.9**	**276666.6**	**72807**						**2569661.75**	**26948635.85**		**2,69,48,635.85**
5.0		**Stone Work**																				
5.01	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :																				
	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum												1700.00					1700	6653.45	1,13,10,865.00
5.02	7.2	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at sindow sills, ceiling level and the like.																				
	7.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum												504.00					504	8275.70	41,70,952.80
		Total of sub-head (5.0)													**15481817.8**					**15481817.8**		**1,54,81,817.80**
6.0	**8**	**Cladding Work**																				
6.01	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to																				
	8.2.2	Granite of any colour and shade																				
6.01.1	8.2.2.1	Area of slab upto 0.50 sqm	Sqm	17.00			1.00		6.00	3.00										27	4679.35	1,26,342.45
6.01.2	8.2.2.2	Area of slab over 0.50 sqm	Sqm	91.00			3.00	49.00	44.00	24.00										211	4425.35	9,33,748.85
6.02	8.4	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete	Metre	169.00			5.00		6.00	33.00										213	475.55	1,01,292.15
6.03	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and	Each	41.00																41	808.15	33,134.15
6.04	8.31	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	482.00	857.00	857.00	27.00	346.00	681.00	225.00										3475	1063.45	36,95,488.75
		Total of sub-head (6.0)		**1108340.8**	**911376.65**	**911376.65**	**49046.3**	**584795.85**	**949854.25**	**375215.85**										**4890006.35**		**48,90,006.35**
7.0	**9**	**Wood Work & PVC Work**																				
7.01	9.12	Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion	Sqm	15.00	45.00	45.00	2.00	3.00	23.00	13.00										146	148.50	21,681.00
7.02	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:																				
	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	97	99	99.00	14.00	31.00	113.00	63.00	2.00		2.00							520	2015.75	10,48,190.00

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7.03	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	Sqm	104	99	99.00	16.00	23.00	113.00	63.00	2.00		2.00							521	401.40	2,09,129.40
7.04	9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured)	Sqm				2.00	5.00												7	93.65	655.55
7.05	9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets :																				
	9.47.2	25 mm dia (heavy type)	Metre	180.00	242.00	242.00	16.00		232.00	141.00										1053	159.35	1,67,795.55
7.06	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete																				
	9.48.1	Fixed to steel windows by welding	kg	2106	2339	2339.00	94.00	386.00	1065.00	592.00			19.00							8940	181.00	16,18,140.00
7.07	9.24	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):																				
	9.24.1	Rectangular or square	Sqm	97.00	91.00	91.00	14.00		113.00	63.00										469	173.95	81,582.55
7.08	9.55	Deduction for not providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete :																				
	9.55.2	100x58x1.90 mm	Each	283	810	810.00	44.00	48.00	520.00	180.00	4.00		4.00							2703	39.05	1,05,552.15
7.09	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :																				
	9.96.1	300x16 mm	Each				2.00	2.00												4	260.30	1,041.20
	9.96.2	250x16 mm	Each	77	135	135.00	11.00	11.00	114.00	82.00	1		1.00							567	234.90	1,33,188.30
7.1	9.68	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete																				
	9.68.1	300 mm weighing not less than 200 gms	Each	486	918	918.00	40.00	132.00	432.00	240.00			4.00							3170	59.25	1,87,822.50
7.11	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete	Each	15	11	11.00	1.00	4.00	18.00	12.00										72	856.30	61,653.60
0.01	9.85	Providing and fixing bright finished brass casement window fastener with necessary screws etc. complete.	Each	486	918	918.00	40.00	132.00	432.00	240.00			4.00							3170	76.30	2,41,871.00
7.12	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete																				
	9.97.1	300x10 mm	Each	77	135	135.00	13.00	17.00	130.00	72.00	1.00		1.00							581	117.65	68,354.65
	9.97.4	150x10 mm	Each	77	135	135.00	13.00	17.00	26.00	72.00	1.00		1.00							477	75.55	36,037.35
7.13	9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :																				
	9.100.1	125 mm	Each	154	6	6.00	26.00	26.00	296.00	144.00	2.00		2.00							662	60.05	39,753.10
	9.100.2	100 mm	Each		264	264.00					2.00		2							532	53.25	28,329.00
7.14	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete																				
	9.101.2	Twin rubber stopper	Each	39	40	40.00	12.00	9.00	132.00	72.00	1.00		1.00							346	62.05	21,469.30
		Total of sub-head (7.0)		**800647.3**	**963910**	**963910**	**73044.6**	**174201.05**	**690223.8**	**390913.75**	**5707.25**		**9688.45**							**4072246.20**		**40,72,246.20**
8.0	**10**	**Steel Work**																				
	10	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	Sqm																		101.75	-
8.01	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including	Sqm	29.00	13.00	13.00		10	14.00	7.00										86	9397.35	8,08,172.10
8.02	10.6	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked 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																				
	10.6.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	Sqm									27.00								27	3008.80	81,237.60
8.03	10.7	Providing and fixing ball bearing for rolling shutters	Each									3.00								3	424.20	1,272.60
8.04	10.8	Extra for providing mechanical device chain and crank operation for operating rolling shutters																				
	10.8.1	Exceeding 10.00 sqm and upto 16.80 sqm in the area	Sqm									15.00								15	1108.70	16,630.50

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8.05	10.11	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D,F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).																				
	10.11.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	kg	2620.00	4726.00	4726.00	189.00	799.00	2111.00	1173.00			19.93							16364	166.50	27,24,594.35
	10.11 (Modified)	Deduct for omitting cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) in fixing standard steel glazed doors, windows and ventilators in walls. (Rate is	kg	2620.00	4726.00	4726.00	189.00	799.00	2111.00	1173.00			20.00							16364	-63.00	(10,30,932.00)
8.06	10.13	Providing and fixing T-iron frames for doors of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.																				
	10.13.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	kg	1402	2471	2471.00	213.00	312.00	2322.00	1286.00	18.00		18.00							10513	114.65	12,05,315.45
	10.15	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel																				
	10.15.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	kg	3542.00	4568.00	4568.00	183.00	4681.00	2079.00	1155.00										20776	146.55	30,44,722.80
8.07	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc.																				
	10.16.1	Hot finished welded type tubes	kg	3542.00							340.00	600.00				3100.00				7582	154.90	11,74,451.80
8.08	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required																				
	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	100.00					1824.00	1219.00	520.00									3663	142.30	5,21,244.90
	10.25.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	kg													100.00				100	102.25	10,225.00
8.09	10.26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.																				
	10.26.1	M.S. tube	kg	1259.00																1259	157.15	1,97,851.85
8.10	10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing	kg	1659.00	818.00	818.00	48.00	432.00												3775	612.25	23,11,243.75
8.11	10.29	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete																				
	10.29.2	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	Sqm		229.00	229.00	9.00	40.00	99.00	55.00										661	971.55	6,42,194.55
8.12	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :																				
	10.30.1	4.0 mm thick glass panes	Sqm	298.00	332.00	332.00	13.00	55.00	151.00	84.00			1.00							1266	940.30	11,90,419.80
		Total of sub-head (8.0)		**3280182.35**	**2599532.15**	**2599532.15**	**121156.45**	**1253511.85**	**1418670.1**	**809776.25**	**128725.7**	**192080.7**	**5062.345**			**490415**				**12898645.05**		**1,28,98,645.05**
9.0	**11**	**Flooring**																				
9.01	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.																				
	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm									57.00	12.00							69	545.00	37,605.00
0.01	11.5	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.																				

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			Sqm													1316.00				1316	928.65	12,22,103.40
	11.8	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	Sqm													1216.00				1216	69.30	84,268.80
9.02	11.13	Providing and fixing glass strips in joints of terrazo/ cement concrete floors																				
	11.13.1	40 mm wide and 4 mm thick	Metre									143.00	60							203	79.50	16,138.50
9.03	11.23	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with : Note : Qty. shall be executed in marble strips of																				
	11.23.3	Agaria White	Sqm	103.00	93.00	93.00		43.00	6.00	5.00										343	2608.15	8,94,595.45
	11.23.5	Udaipur green marble	Sqm																		2100.40	-
9.04	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :																				
	11.26.1	25 mm thick.	Sqm	1941.00	1763.26	1763.26	2.00	799.00	117.00	83.00	4.00									6473	1706.60	1,10,46,002.63
9.05	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including	Sqm	243.00	230.00	230.00	2.00	29.00	26.00	35.00	1.00									796	1810.05	14,40,799.80
9.06	11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Metre	313.00	225.00	225.00	9.00	27.00	113.00	108.00										1020	157.35	1,60,497.00
9.07	11.40	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (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 Cement Mortar 1:4 (1 Cement : 4Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including pointing the joints with white cement and matching pigments etc.,	Sqm	128.00	333.00	333.00	19.00	9.00	240.00	116.00										1178	1225.10	14,43,167.80
9.08	11.41	Providing and laying full body (Homogeneous) 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 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.																				
	11.41.2	Size of Tile 600x600 mm	Sqm	179.00	18.00	18.00	101.00		899.00	430.00										1645	1416.65	23,30,389.25
9.09	11.46	Providing and laying full body (Homogeneous) Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc.																				
	11.46.2	Size of Tile 600x600 mm	Sqm	12.00	2.00	2.00	13.00		92.00	47.00										168	1466.50	2,46,372.00
9.10	23.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -	Cum									6.00								6	1309.00	7,854.00
9.11	16.89	Providing and laying matt finished vitrified tile of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc.	Sqm	343.00	11.00	11.00														365	1250.75	4,56,523.75
9.12	16.90	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS:15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of	Sqm	62.00	2.00	2.00														66	1719.00	1,13,454.00
		Total of sub-head (9.0)		**5033819.15**	**4157039.966**	**4157039.966**	**193872.5**	**1543489.65**	**1982673.3**	**1055230.7**	**8636.45**	**50287.5**	**11310**			**1306372.2**				**19499771.38**		**1.94.99.771.38**
10.0	**12**	**Roofing**																				
10.01	12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :																				
	12.21.1	In 75x75 mm deep chase	Metre	211.00	188.00	188.00	51.00	145.00	248.00	120.00	4.00	40.00	15.00							1210	260.20	3,14,842.00

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10.02	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the	Each	10.00	23.00	23.00	3.00	8.00	17.00	9.00	1.00	10.00	1.00							105	266.60	27,993.00
10.03	12.47	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or																				
	12.47.2	2 mm thick flat	Sqm	35.00																35	1048.50	36,697.50
10.04	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including	Sqm	251.00				245.00				50		96.00						642	671.55	4,31,135.10
10.05	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns																				
	12.51.2	Flashings/ Aprons (Upto 600 mm)	Metre	38.00				12.00												50	412.85	20,642.50
	12.51.4	Barge board (upto 300 mm)	Metre					23.00												23	384.20	8,836.60
	12.51.6	Gutter (600 mm over all girth)	Metre	32.00				23.00												55	1110.60	61,083.00
		Total of sub-head (10.0)		**314052.25**	**55049.4**	**55049.4**	**14070**	**243726.15**	**69061.8**	**33623.4**	**1307.4**	**46651.5**	**4169.6**	**64468.8**								**9,01,229.70**
11.0	**13**	**Finishing**																				
11.01	13.4	12 mm cement plaster of mix																				
	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	1705.00	2510.00	2510.00	300.00	361.00	2885.00	1594.00	2.00	163.00	4.00						2421.00	14455	294.35	42,54,829.25
11.02	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:																				
	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	3167.00	1840.00	1840.00	100.00	167.00	1111.00	549.00	19.00		38.00						2241.00	11072	339.10	37,54,515.20
11.03	13.16	6 mm cement plaster of mix																				
	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	4401.00	3256.00	3256.00	144.00	616.00	2225.00	1099.00	3.00	71.00	12.00							15083	253.05	38,16,753.15
11.04	13.18	Neat cement punning	Sqm	50.00	30.00	30.00	5.00	10.00	5.00											130	67.80	8,814.00
11.05	13.11	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand)	Sqm	1168.00	2131.00	2131.00	176.00	474.00	1337.00	1176.00	28.00	163.00	54.00							8838	442.75	39,13,024.50
11.06	13.21	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	per bag of 50kg cement used in the mix	865.00	150.00	150.00	10.00		75.00	50.00										1300	60.55	78,715.00
	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface	Sqm																		214.30	-
11.07	13.37	White washing with lime to give an even shade :																				
	13.37.1	New work (three or more coats)	Sqm	50.00	50.00	50.00	10.00	20.00	75.00	50		10.00								315	32.45	10,221.75
11.08	13.42	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification																				
	13.42.1	Two or more coats on new work	Sqm	9273.00	7606.00	7606.00	486.00	1144.00	8709.00	3034.00	22.00	163.00	50.00							38093	92.75	35,33,125.75

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11.09	13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :																				
	13.43.1	Water thinnable cement primer	Sqm	9273.00	7606.00	7606.00	486.00	1144.00	8709.00	3034.00	22.00	163.00	50.00							38093	64.45	24,55,093.85
11.10	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:																				
	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	1369.00	2400.00	2400.00	234.00	595.00	2166.00	1385.00	30.00	163.00	58.00						4482.00	15282	162.35	24,81,032.70
11.11	13.50	Applying priming coat:																				
	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	50.00	50.00	50.00	20.00	10.00	75.00	50.00		10.00							189.00	504	55.50	27,972.00
0.01	13.50	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.																				
	13.52.2	On concrete work	Sqm													1216.00	780.00			1996	198.40	3,96,006.40
11.12	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :																				
	13.61.1	Two or more coats on new work	Sqm	956.00	1013.00	1013.00	62.00	211.00	645.00	356.00	18.00	65.00	2.00			24.00			189.00	4554	131.45	5,98,623.30
11.13	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	Sqm	1369.00																1369	123.85	1,69,550.65
		Total of sub-head (11.0)		**5241954.35**	**4864169.6**	**4864169.6**	**361496.2**	**834685.35**	**4197899.5**	**2210156.5**	**30882.75**	**199624.25**	**58547.5**			**244409.2**	**154752**		**2235530.7**	**25498277.5**		**2,54,98,277.50**
12.0	**21**	**Aluminium Work**																				
12.01	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free,straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge.																				
	21.1.1	For Fixed Portion																				
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	56.00	48.00	48.00		38.00			50.00									240	466.30	1,11,912.00
12.02	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for																				
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	51.00	32.00	32.00		76.00			80.00									271	553.55	1,50,012.05
12.03	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):																				
	21.3.1	With float glass panes of 4.00 mm thickness	Sqm																		1019.80	-
	21.3.2	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/ sqm)	Sqm	1.00	3.00	3.00		6.00			3.00									16	1325.55	21,208.80
	21.3.3	With float glass panes of 8 mm thickness (weight not less than 20 kg/ sqm)	Sqm	8.00	5.00	5.00														18	1496.15	26,930.70
12.04	21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.																				
	21.4.1	With stainless steel cover plate minimum 1.25 mm thickness	Each	2.00	2.00	2.00		4.00												10	2448.85	24,488.50
12.05	21.13	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	Each	1.00	1.00	1.00		2.00												5	449.55	2,247.75
	21.16	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-incharge																				
	21.16.2	Powder coated minimum thickness 50 micron aluminium	Each	4.00	4.00	4.00		8.00												20	89.60	1,792.00
		Total of sub-head (12.0)		**73344.25**	**57259.05**	**57259.05**		**79153.8**			**71575.65**									338592		**3,38,591.80**
13.0	**22**	**Water Proofing**																				
13.01	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:																				
		(i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.																				

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		(ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surfaces																				
		(iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area																				
		(iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	Sqm	113.00	318.00	318.00		323.00	242.00	98.00										1412	774.25	10,93,241.00
	22.4	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete.																				
	22.4.1	Serrated with central bulb (225 mm wide, 8-11 mm thick)	Sqm																		285.60	-

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13.02	22.7	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:																				
		a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.																				
		b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and																				
		c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin-charge.																				
		d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.																				
		e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test."All above operations to be done in order and as directed and specified by the Engineer-in-Charge :																				
	22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm	Sqm	789.00	790.00	790.00	130.00	550.00	455.00	261.00	3.00	99.00	12.00							3879	1522.95	59,07,523.05
13.03	22.23	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, reservior, 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.																					-
	22.23.1	For vertical surface two coats @ 0.70 kg per sqm	Sqm	54.00	83.00	83.00	9.00	18.00	105.00	74.00			176.00							602	406.25	2,44,562.50
	22.23.2	For horizontal surface one coat @1.10 kg per sqm.	Sqm	34.00	48.00	48.00	3.00	9.00	40.00	37.00			52.00							271	311.50	84,416.50
		Total of sub-head (13.0)		**1321626.3**	**1498012.75**	**1498012.75**	**202574.25**	**1097821.25**	**935427**	**514954.45**	**4568.85**	**150772.05**	**105973.4**							7329743		**73,29,743.05**
14.0	**16**	**Road Work**																				
14.01	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth	Sqm													11916.00		3052.00		14968	180.50	27,01,724.00
0.01	16.7	Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 meter.	mtr													1036				1036	179.50	1,85,962.00
																						-
0.01	16.7	Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling	sqm													1700				1700	21.80	37,060.00
14.02	16.11	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete	Sqm												4523.33					4523	821.95	37,17,954.75
14.03	16.11 (Modified)	Deduct for using available stone of size 15 cm x 22.5 cm for dry stone pitching. (Rate is below relevant	Sqm												4523.33					4523	-242.95	(10,98,944.10)
14.03	16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineerin-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	Metre																1245.00	1245	303.65	3,78,044.25

S. No.	DSR 2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (18	7 Type-II Quarters (10 Nos.) in Single	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-	11 Site Levelling	12 Retaining Wall & Stone Pitching	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
14.04	16.19	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	kg																3780.00	3780	99.95	3,77,811.00
14.05	16.62	Providing and applying 2.5 mm thick road marking strips (retro- reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	Sqm															154.00		154	623.80	96,065.20
14.05	16.66	Excavating holes upto 0.10 cum, including getting out the excavated soil, then returning the soil as deported in layers not exceeding 20 cm in depth, including consolidating and deposited layer by ramming watering etc., disposing of surplus excavated soil as directed with in a lead of 50 mm and lift upto 1.5 m.																				
	16.66.1	All kind of soil	each													16.00				16	26.45	423.20
14.06	16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per	Sqm															230.00		230	951.00	2,18,730.00
14.07	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by	Cum															69.00		69	8613.55	5,94,334.95
14.08	16.75	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is	Cum															319.00		319	8964.00	28,59,516.00
14.09	16.76	Deduct for using of M-20 grade concrete instead of M-25 grade concrete in C.C. pavement	Cum															-319.00		-319	191.10	(60,960.90)
14.10	16.3	Supplying and stacking at site.																				
	16.3.2	63 mm to 45 mm size stone aggregate	Cum															311.00		311	1624.50	5,05,219.50
14.11	16.3.3	53 mm to 22.4 mm size stone aggregate	Cum															311.00		311	1837.25	5,71,384.75
14.12	16.3.10	Moorum	Cum													452.33		302.00		754	888.30	6,70,074.40
14.13	16.3.9	Good Earth	Cum														1218.00	763.10		1981	624.55	12,37,296.01
14.13	16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and	Cum															764.00		764	865.80	6,61,471.20
		Total of sub-head (14.0)													**3020818.446**	**3134985.1**		**6741507.41**	**755855.25**	13653166		**1,36,53,166.20**
15.00		**Non-Schedule Items - Civil**																				
15.01	MR 1	Supply and Installation of single bucket dustbin made out of SS 202 grade, Capacity of bucket will be 70 ltrs. with weight carrying capacity of 40 kg. Minimum Sheet thickness will be used 0.8 mm. Design shall be approved from Engineer In Charge	Each	5																5	5084.00	25,420.00
15.02	MR 2	Supplying, installation and fixing Galvanized iron High mast pole for National flags of height 6 meter. Pole shall be conical in shape of bottom & Top diameter- 20mm, Thickness - 1.0mm including holes and other accessories. Diameter of the base shall be 110mm and thickness of base plate shall be minimum 2mm. The rate shall be inclusive of National flag of required size as per IS code with hoisting arrangments and including mounted base, base plate and all other	Each	1																1	70242.00	70,242.00
16.03	MR 3	Providing and fixing of Outdoor signages of varying sizes and shapes using stainless steel (Grade 304) sheet of minimum 16G thickness brush finish 3 dimensional letters of required size filled with colour as desired by engineer, fixing with SS screws on walls, all completed as per manufacturer's specifications and direction of Engineer-in-Charge	Sqm	5	2	2.00														9	22399.00	2,01,591.00

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16.04	MR 4	Providing signage viz display/name plate and like of required size made out of 20 guage thick stainless steel (304 grade) including engraved subject matter, message (Hindi/English and / or bilingual), symbols, borders and logo etc. The engraved letter, borders etc. to be furnished with paint etc. of reqyared colour scheme and the plate to be fixed to wooden/wall surface with 25mm long stainless steel spacer/stud all complete as per direction of Engineer in Charge.	Sq. inch	1550	800	800.00					100	200	100					200.00		3750	17.00	63,750.00
16.05	MR 5	Providing and fixing Glass Reinforced Concrete Screens shall be made with frame of thickness 50mm and perforated designer screen element within thickness of 30mm as per approved design. The GRC screens shall be casted with a layering technique using power spray methodology and have minimum weight 3.5 kg per Sq.ft. The screens should be made from 53 grade white portland cement, fine graded quartz, silica sand and alkali resistant glass fibre. Super plasticizers and UV resistant synthetic inorganic pigments should be used for pigmentation. The material casting should take place in FRP moulds. The GRC screens' flexural strength Limit of Proportionality should be atleast 6 N/mm2 & Modulus of Rupture should be atleast 15 N/mm2 for tests done on 28 days cured samples. The fixing of panels should be 'Dry fixing' i.e., should be done with MS galvanized clamps, fixtures, screws and fasteners. All work, design, pattern and colour should	Sqm	60.00	49.00	49.00			37.00	28.00										223	4035.00	8,99,805.00
16.06	MR 6	Providing and fixing 35mm thick factory made Machine pressed pre-laminated flush door exterior grade with SS Butt Hinges along with teak wood lipping on edges. The lamination sheet used shall be decorative high pressure of plain/ wood grain in gloss/ matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding	Sqm	65.00	155.00	155.00	8.00	6.00	133.00	74.00										596	3150.00	18,77,400.00
16.07	MR 7	Providing and laying cement concrete wall cladding to imitate brick or stone and like (size and thickness to be specified by the manufacturer), water absorption 3% to 6% conforming to IS: 1237:2001, of approved brand & manufacturer, in brick colours and shade as approved by the architect, on walls laid with cement based high polymer modified quick set tileadhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints of 3mm wide using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including	Sqm	256.00	362.00	362.00	28.00	143.00	114.00	73.00										1338	1639.00	21,92,982.00
16.08	MR 8	Graffiti painting on wall as approved logo of Eklavya (EMRS) by high gloss acrylic colour before making logo, prepare the surface clean, fill POP in voids, apply 1mm white birla putty and primer including material, labour and T&P etc. all complete	Sqm	48.00																48	650.00	31,200.00
16.08	MR 8	Providing & fixing G.I. chicken wire mesh of nominal size upto 20mm having 24 gauge thick with G.I. nails etc. to wall surface of dissmilar material viz RCC and brick work etc.all	Sqm	200.00	50.00	50.00			50.00	20	30	20								420	155.15	65,163.00
	MR-9	Basket ball- Board & Basket	one set													2.00					20000.00	-
	MR-10	Archry-Start stands	each													4.00					5000.00	-
	MR-11	Archery-Targets	each													4.00					5000.00	-
	MR-12	Archery-set of bows & Arrow	each													10.00					7000.00	-
	MR-13	Volley ball nets	each													2.00					5000.00	-
		Total of sub-head (16.0) (Non DSR)		**1162671**	**1345438.5**	**1345438.5**	**71092**	**253277**	**762848.5**	**468830**	**6354.5**	**6503**	**1700**					**3400**		**1574005**		**54,27,553.00**
		PLUMBING WORKS																				
17.0		**Sanitary Installation (As per D.S.R.)**																				
17.01	8.10	Providing & fixing stone slab table rubbed, edges rounded and polished of size 75 X 50 cm deep and 1.8 cm thick fixed in urinal patitions by cutting a chase of appropriate width with chase cutter and embedding the stone in chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregste 6mm nominal size) as per																				
	8.10.2	Granite Stone of approved shade	sqm	3.00	4.50															8	3542.85	26,571.38
17.02	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with CI brackets and stainless steel waste with plug 40mm including painting of fittings and brackets, cutting and making																				-
	17.10.2	Sink without drain board																				-
	17.10.2.2	610X460 mm bowl depth 200mm	Each	12	12	12.00	1.00	2.00	16.00	10.00										65	3337.85	2,16,960.25
17.03	17.11	Providing and fixing white vitreous china **laboratory sink** with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :																				
	17.11.2	Size 600x450x200 mm	Each	18.00																18	5610.85	1,00,995.30

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17.04	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever																				
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	13.00	7.00	7.00	2.00		16.00	10.00										55	5540.55	3,04,730.25
17.05	17.16A	Providing and fixing 8 mm dia C.P./S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureopean type W.C. of quality and make as	Each	13.00	7.00	7.00	2.00		16.00	10.00										55	299.35	16,464.25
17.06	17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.																				
	17.70.1	Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms.	Each	4.00			3.00		32.00	20.00										59	325.10	19,180.90
17.07	17.5.1 (M)	Providing and fixing single white vitreous china flat back half stall urinal of size 580x380x350 mm with spreaders, unions, waste fitting and other couplings (all in C.P. brass) including making good the walls wherever required	Each	12	18															30	3322.60	99,678.00
17.08	17.72	Providing & fixing PTMT towel ring trapezoidal shape 215 mm long 200 mm wide with minimum distance of 37 mm from wall face with concealed fittings arrangement of approved quality and colour	Each	7.00	12.00	12.00	3.00	13.00	32.00	20.00										99	204.70	20,265.30
17.09	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming																			-	
	18.49.1	15mm nominal bore	Each	21.00	37.00	48.00	1.00	3.00	16.00	20.00										146	434.2	63,393.20
17.10	18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than																				
	18.50.1	15mm nominal bore	Each	30.00	41.00	38.00	8.00	28.00	96.00	50.00										291	715.05	2,08,079.55
17.09	18.54	Providing and fixing PTMT bib cock of approved quality and colour.																				
	18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	Each																		109.85	
	18.54.3	15 mm nominal bore, 165 mm long, weighing not less than 110 gms	Each																		156.65	
17.10	18.55	Providing and fixing PTMT stop cock of approved quality and colour.																				
	18.55.3	Concealed stop cock, 15 mm nominal bore, 108 mm long, weighing not less than 108 gms (For Shower)	Each																		183.40	
0.01	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931																				
	18.52.1	15 mm nominal bore (For Shower)	Each		31.00	37.00	6.00	1.00	64.00	50.00										189	594.75	1,12,407.75
0.02	18.53	Providing and fixing C.P. brass angle valve for basin mixer and points of approved quality conforming to IS:8931																				
	18.53.1	15 mm nominal bore (For Shower)	Each	78.00	95.00	97.00	24.00	10.00	112.00	70.00										486	532	2,58,552.00
17.11	18.63	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms	Each																		136.60	
0.01	18.75	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.	Each																			
		a) 25 mm nominal bore , weighing not less than 62 gms					3.00		40.00	24.00										67	100.55	6,736.85
17.12	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:	Each																			
	17.7.4	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap		3.00	31.00	37.00	3.00	3.00	32.00	20.00										129	1679.6	2,16,668.40
17.12	17.7B	Providing and fixing **wash basin** with C.I. brackets, 15 mm PTMT pillar cock, 32 mm PTMT waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm	Each																		1404.00	
17.13	17.28	Providing & fixing PVC waste pipe for sink including PVC waste fitting Complete																				
	17.28.2	Flexible Pipe																				
	17.28.2.1	32mm Dia	Each	70.00	61.00	48.00	1.00		16.00	10.00										206	104.35	21,496.10
17.14	17.34	Providing and fixing toilet paper holder :																				
	17.34.1	C.P. brass	Each	13.00	7.00	7.00	2.00		16.00	10.00										55	680.80	37,444.00
17.15	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions																				
	18.21.2	45 cm length																				
	18.21.2.1	15 mm nominal bore	Each	66.00	52.00	70.00	8.00	18.00	96.00	60.00										370	85.20	31,524.00

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17.16	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:																				-
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580 x 440 mm with integral type foot rests	Each	15.00	30.00	36.00	1	3.00	16.00	10.00										111	5781.35	6,41,729.85
																						-
17.17	18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms	Each		31.00	31.00	3.00	15.00	48.00	30.00										158	96.75	15,286.50
																						-
17.18	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 195 gms	Each	19.00	7.00	7.00	3.00	12.00	32.00	20.00										100	146.30	14,630.00
17.19	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour																				-
	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms	Each	7.00	3.00	3.00	3.00	7.00	32.00											55	600.35	33,019.25
17.20	18.64	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms	Each		31.00	43.00	3.00	1.00	32.00	20.00										130	106.15	13,799.50
		Sanitary Installations work (Non-Scheduled Items)																				
17.21	MR 14	Providing and fixing U-shaped stainless steel grab bar (for differntly abled person) of size 600mm wall mounted, movable (horizontally and vertically) with necessary dash fastener etc. all complete. (Basic rate of material shall not be less than Rs.3900 each)	Each	3.00	1.00	1.00														5	5700.00	28,500.00
17.22	MR 15	Providing and fixing **Oval Shape wash basin** of size 560x450mm with C.I. brackets/rag bolt of required size, 15 mm PTMT pillar taps long neck with aerator, 32 mm PTMT waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require complete as per direction of Engineer in Charge	Each	28.00				6.00												34	4865.00	1,65,410.00
17.23	MR 16	Providing and fixing 600 x 450 mm beveled edge mirror of superior glass (of approved quality) fixed with stainless steel studs, complete with cutting, making holes, studs, all fittings, screws, washers and making good the walls.	Each	35.00	31.00	43.00	3.00	12.00	32.00	20.00										176	849.59	1,49,527.84
17.24	MR 17	Providing & fixing stainless steel robe plate/pegs (hook) having three pegs (hook) in one strip (weight shall not be less than 120 grams) of superior quality with necessary scres etc. complete.	Each	4.00	31.00	43.00	6.00	6.00	64.00	10.00										164	281.00	46,084.00
17.25	MR 18	Providing and fixing C.P. brass swan neck foam flow pillar cock of approved quality and conforming to IS standards. a) 15mm nominal bore	Each	28.00				6.00												34	844.20	28,702.80
17.26	MR 19	Providing and fixing C.P. brass long body nozzle bib cock (two way) of approved quality conforming to IS standards and weighing not less than 810 gms.																				
17.26.1		a) 15 mm nominal bore	Each						16.00	10.00										26	643.55	16,732.30
17.27	MR 20	Providing & fixing stainless steel butterfly robe pegs (hook) having three hooks of superior quality with necessary scres etc. complete.	Each		31.00	31.00	1.00		64.00	40.00										167	207.00	34,569.00
17.28	MR 21	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and																				
17.28.1		a) 32 mm nominal bore		7.00	14.00	14.00														35	141.50	4,952.50
17.28.2		b) 40 mm nominal bore					2.00													2	201.70	403.40
		Total of sub-head (17.0) (DSR)																				**24,79,612.58**
		Total of sub-head (17.0) (Non DSR)																				**4,74,881.84**
18.0		**Internal Drainage Installations (As per D.S.R.)**			-																	
18.01	18.58	Providing and fixing PTMT grating of approved quality and colour																				
	18.58.1	Circular type																				
	18.58.1.1	100 mm nominal dia	Each	37.00	32.00	32.00	6	23	80	30										240.00	33.20	7,968.00
	18.58.1.2	125 mm nominal dia with 25mm waste hole.	Each	18.00	31.00	31.00	1		32	20										133.00	45.25	6,018.25
18.02	12.41	Providing & fixing on wall face unplasticised -Rigid PVC rain water pipes conforming to IS:13592 Type A included jointing with seal ring conforning to IS:5382 leaving 10 mm gap for thermal expansion.																				
	12.41.2	110 mm diameter	Metre	98.00	227.00	227.00	13.00	36.00	131.00	73.00										805.00	319.75	2,57,398.75
18.03	12.42.	Providing, fixing on wall face unplasticised - PVC moulded fittings /accessories for unplasticised - Rigid PVC rain water pipes conforming to IS ; 13592 Type A including jointing with seal ring conforming to IS ; 5382 leaving 10 mm gap for thermal expansion.																				
	12.42.1.2	Coupler -110 mm diameter	Each	22.00	46.00		3.00	8.00	22.00	9.00										110.00	119.95	13,194.50
	12.42.5.2	Bend -87.5 deg -110 mm diameter	Each	10.00	23.00	23.00	3.00	8.00	22.00	9.00										98.00	132.00	12,936.00
	12.42.6.2	Shoe -110mm shoe	Each	10.00	23.00		3.00	8.00	22.00	9.00										75.00	115.95	8,696.25

S. No.	DSR 2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (18	7 Type-II Quarters (10 Nos.) in Single	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-	11 Site Levelling	12 Retaining Wall & Stone Pitching	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.																				
	12.43.2	110mm	Each	45.00	46.00	46.00	6.00	8.00	44.00	18.00										213.00	310.85	66,211.05
18.04	MR 22	Providing, fixing, jointing and testing in position of ISI marked UV stabilized uPVC pipes for soil, waste, and vent, Type-B as per IS : 13592 suitable for rubber ring joints, including all neccessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, WC connectors, couplers, expansion joints / bellows, cowels, clamps, rubber rings, clean outs etc. fixing at wall/ ceiling/ floor level supported by clamp & hangers etc. in concealed / inside duct / under floor & basement ceiling / external work etc. including chase cutting as required, excavation and back filling in all kind of soils, suspended from floor under false ceiling or embedding the pipes laid under floors / building in 75 mm. alround 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of shuttering for proper completion of the work, breaking and making good the walls and floors etc. after pipes have been duly laid and tested. The rubber ring shall confirm to IS:5382. The Pipes will be supported with threaded G I rods & U clamps with nuts, washers etc on 50x50x5 mm slotted angle. The cost will include all support arrangements. The work includes																				
		a) 110 mm dia (Wall Thickness - 3.2 to 3.8 mm)	Metre	279	481	481	21	62.00	432	240										1996.00	536.00	10,69,856.00
18.05	MR 23	Providing and fixing uPVC floor trap of self cleaning design including jointing with solvent and embedding in cement concrete all complete.																				
		a) 110 mm inlet & 110 mm outlet	Each	31	31		4	2	64	40										172.00	225.00	38,700.00
18.06	MR 24	Providing and fixing uPVC inlet fitting (Hopper) maximum with 2 or 3 inlets of 40 to 63 mm OD size fabricated from 110 OD uPVC pipe fixed to uPVC trap jointing with solvent cement joint and set in a cement concrete 1:2:4 mix complete including cost of cutting and making good the walls and floors	Each	28	30		3	22	48	30										161.00	334.50	53,854.50
18.07	MR 25	Providing and fixing of uPVC Waste pipes 6 kg/cm2 (IS: 4985:2000) including with all fittings e.g. couplings, tees, bends, reducers and screwed adoptors jointing with solvent cement as per Manufacturer's specifications complete including cutting holes or chases in wall and making good the same wherever required. (Waste pipe from fixtures).																				
		40 mm OD	Metre		46	46	6	49.00	24.00	15.00										186.00	268.00	49,848.00
18.08	MR 26	Providing and fixing uPVC cleanout plug conforming to IS:14735 – 1999 complete with all fitting, accessories etc. complete																				
		a) 110 mm dia	Each	14	18	18	2		16	10										78.00	177.15	13,817.70
																						-
		Total of sub-head (18.0) (DSR)																				**3,72,422.80**
		Total of sub-head (18.0) (Non DSR)																				**12,26,076.20**
19.0		**Water Supply Installations (As per D.S.R.)**																				
19.01	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of engineer in charge.																				
		Internal work -Exposed on Wall																				
19.02.1	18.7.3	25 mm nominal dia pipes	Metre	58			21	15.00	171	134										399.00	408.55	1,63,011.45
19.02.2	18.7.4	32 mm nominal dia pipes	Metre	90	91	91		98.00												370.00	500.95	1,85,351.50
19.02.3	18.7.5	40 mm nominal dia pipes	Metre	45				40.00												85.00	674.35	57,319.75
19.02.4	18.7.6	50 mm nominal dia pipes	Metre	4				44.00												48.00	927.00	44,496.00
19.02	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes having the thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. this includes jointing of pipes and fittings with one step CPVC solvent cement and the cost of cutting chases and making good the wall same including testing of joints complete as per the direction of engineer incharge																				
		Concealed work including cutting chases and making good the wall etc.																				
19.02.1	18.8.2	20 mm nominal dia pipes	Metre	187	306	306	17	45.00	192	90										1143.00	513.75	5,87,216.25
	18.8.3	25 mm nominal dia pipes	Metre	138	222	222	8	85.00	88	67										830.00	626.05	5,19,621.50
	18.8.4	32 mm nominal dia pipes	Metre	24	48	48		48.00												168.00	712.75	1,19,742.00
19.03	18.10	Providing and fixing G.I. pipes complete with GI fittings and clamps including cutting and making good the walls etc. (internal work)																				
		Internal work - Exposed on wall																				
19.03.1	18.10.3	25 mm dia, nominal bore	Metre				6.00		76.00	44.00										126.00	491.20	61,891.20
19.03.2	18.10.4	32 mm dia, nominal bore	Metre	15.00	29.00	29.00		13.00												86.00	563.60	48,469.60
19.03.3	18.10.5	40 mm dia, nominal bore	Metre																		725.15	-
19.03.4	18.10.6	50 mm dia, nominal bore	Metre																		893.20	-
19.03.5	18.12.7	65 mm dia, nominal bore	Metre																		716.00	-
19.04	18.38	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade																				
	18.10.3	25 mm dia, nominal bore	Metre				6		76.00	44.00										126.00	491.20	
	18.10.4	32 mm dia, nominal bore	Metre	15.00	29.00	29.00		13.00												86.00	563.60	
	18.10.5	40 mm dia, nominal bore	Metre																		725.15	-

S. No.	DSR 2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (18	7 Type-II Quarters (10 Nos.) in Single	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-	11 Site Levelling	12 Retaining Wall & Stone Pitching	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
19.05	18.17	Providing and fixing gun metal gate valve with CI wheel of approved quality (screwed ends)																				
19.05.1	18.17.1	25mm dia, nominal bore	Each				1.00		8.00	4.00										13.00	532.35	6,920.55
19.05.2	18.17.2	32 mm dia, nominal bore	Each	1.00	2.00	2.00		1.00												6.00	589.90	3,539.40
19.05.3	18.17.3	40 mm dia, nominal bore	Each																		707.30	-
19.05.4	18.17.4	50 mm dia, nominal bore	Each																		869.20	-
19.06	18.19	Providing and fixing gun metal non- return valve of approved quality (screwed end)																				
19.06.1	18.19.1.2	25 nominal bore	Each				1.00		8.00	4.00										13.00	573.50	7,455.50
19.06.2	18.19.2.2	32 nominal bore	Each	1.00	2.00	2.00		1.00												6.00	777.90	4,667.40
19.06.3	18.19.3.2	40 nominal bore	Each																		1049.50	-
19.07	18.62	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D.																				
19.07.1	18.62.3	25 mm nominal bore, 152mm long, weighing not less than 440 gms	Each				1.00		8.00	4.00										13.00	394.00	5,122.00
19.07.2	18.62.4 (M)	32mm-40mm nominal bore, 206mm long, weighing not less than 690 gms	Each	1.00	2.00	2.00		1.00												6.00	728.50	4,371.00
		Water Supply Internal Work (Non Scheduled Items)																				
19.08	MR 27	Providing and fixing C.P.V.C. ball valve in C.P.V.C. pipe including jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. (Astral/Prince/Prakash make or equivalent)																				
19.08.1		15 mm dia nominal bore	Each																		226.50	-
19.08.2		20 mm dia nominal bore	Each																		274.65	-
19.08.3		25 mm dia nominal bore	Each				2.00	3.00	32.00	20.00										57.00	375.65	21,412.05
19.08.4		32 mm dia nominal bore	Each	12.00	12.00	12.00		2.00												38.00	461.60	17,540.80
19.08.5		40 mm dia nominal bore	Each					2.00												2.00	608.75	1,217.50
19.08.6		50 mm dia nominal bore	Each					1.00												1.00	691.70	691.70
		Total of sub-head (19.0) (DSR)																				**18,19,195.10**
		Total of sub-head (19.0) (Non DSR)																				**40,867.05**
																						-
20.0		**EXTERNAL SEWERAGE SYSTEM**																				-
																						-
	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :																				
	2.10.1	All kinds of soils																				
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300 mm dia	Metre	101.00	88.00	115.00	27.00	183.00	164.00	75.00										753.00	293.40	2,20,930.20
20.01	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :																				-
	19.1.2	150 mm diameter	Metre	79.00	88.00	105.00	27	160	132	49							16.00			656.00	591.40	3,87,958.40
	19.1.4	250 mm diameter	Metre	22.00		10.00		23	32	26										113.00	1293.90	1,46,210.70
																						-
20.02	19.3	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design :																				-
	19.3.2	150 mm dia S.W pipe	Metre	39.50	44.00	52.50	13.50	80.00	66.00	24.50										320.00	689.75	2,20,720.00
	19.3.4	250 mm dia S.W pipe	Metre	11.00				11.50	16.00	13.00										51.50	943.90	48,610.85
20.03	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :																				-
	19.2.2	150 mm diameter S.W. pipe	Metre	39.50	44.00	52.50	13.50	80.00	66.00	24.50										320.00	1095.15	3,50,448.00
	19.2.4	250 mm diameter S.W. pipe	Metre	11.00				11.50	16.00	13.00										51.50	1476.35	76,032.03
																						-
20.04	19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominalsize), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement andmaking channels in cement concrete 1:2:4 (1 cement : 2 coarsesand : 4 graded stone aggregate 20 mm nominal size) finished witha floating coat of neat cement complete as per																				-
	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :																				-
	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each																	50.00	11687.10	5,84,355.00
																						-
20.05	19.9	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand), inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :																				-

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	19.9.1	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for																				-
	19.9.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each																	16.00	11038.10	1,76,609.60
																						-
20.06	19.8	Extra for depth for manhole with F.P.S. bricks																				-
	19.8.1	Size 90 X 80 cm																				-
	19.8.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre																	15.00	8127.45	1,21,911.75
20.07	19.10	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m																				-
	19.10.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre																	16.00	6986.80	1,11,788.80
																						-
20.08	19.16	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS : 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per	each														76.00			201.00	487.10	97,907.10
																						-
	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality																				
	19.19.4	EHD-35																				
	19.19.4.1	Circular shape 560 mm internal dia	each														16.00			16.00	1882.20	30,115.20
20.09	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than																				-
	19.4.3.1	180x150 mm size P type With FPS bricks	each																	20.00	2534.00	50,680.00
																						-
20.10	19.21.1	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement cincrete 1:2:4 mix (1cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size) cement plastered on both sides with cement mortar 1:3 (1cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete for pipes 100 to 230mm dia.	each																	3.00	683.70	2,051.10
	19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design																				
	19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each														14.00			14.00	28029.00	3,92,406.00
		Total of sub-head (20.0) (DSR)															**469003.2**					**30.18.734.73**
21.0		**External Storm Water Drainage System**																				
	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50m:																				
	2.10.1	All kinds of soil																				
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre																	788.00	293.40	2,31,199.20
	2.10.1.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	Metre																	32.00	458.10	14,659.20
	2.13	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m :																				
	2.13.1	Ordinary rock																				
	2.13.1.2	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	Metre																	88.00	825.30	72,626.40
	2.13.1.3	Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	Metre																	4.00	949.60	3,798.40
21.01	19.6	Providing and laying non-pressure NP2 class (light duty) RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete (for storm drainage)																				

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	19.6.2	150 mm dia RCC pipe	Metre																	245.00	493.10	1,20,809.50
	19.6.3	250 mm dia RCC pipe	Metre																	454.00	811.15	3,68,262.10
	19.6.4	300 mm dia RCC pipe	Metre																	177.00	902.05	1,59,662.85
	19.6.5	450 mm dia RCC pipe	Metre																	35.00	1481.55	51,854.25
21.02	19.3	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design :																				
	19.3.2	150 mm diameter S.W. pipe	Metre																	122.50	689.75	84,494.38
	19.3.4	250 mm diameter S.W. pipe	Metre																	227.00	943.90	2,14,265.30
	19.3.5	300 mm diameter S.W. pipe	Metre																	177.00	1089.10	1,92,770.70
	analysed	450 mm diameter S.W. pipe	Metre																	35.00	1155.00	40,425.00
21.03	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :																				
	19.2.2	150 mm diameter S.W. pipe	Metre																	122.50	1095.15	1,34,155.88
	19.2.4	250 mm diameter S.W. pipe	Metre																	227.00	1476.35	3,35,131.45
21.04	19.27	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :																				
	19.27.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each																	92.00	5589.45	5,14,229.40
21.05	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality																				
	19.19.1	I. D- 2.5																				
	19.19.1.1	Rectangular shape 600x450mm internal dimensions	Each																	6.00	1255.25	7,531.50
21.06	9.50	Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weight not less than 7.75 Kg per sqm to window frames etc. including 62x19 mm beading of second class teak wood and priming coat with approved	Sqm																	32.60	1484.70	48,401.22
21.07	12.41	Providing & fixing on wall face unplasticised -Rigid PVC rain water pipes conforming to IS:13592 Tyape A included jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion.																				
	12.41.2	110 mm diameter	Metre																	72.00	319.75	23.022.00
21.08	23.1	**Boring/drilling bore well** of required dia for casing/ strainer pipe, by suitable method prescribed in IS:2800(Part I), including collecting sample from different strata , preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-																				
	23.1.1	All types of Soil																				
	23.1.1.1	300 mm dia	Metre																	180.00	592.05	1,06,569.00
21.09	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC. medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge.																				
	23.3.2	150mm nominal size dia	Metre																	100.00	668.50	66.850.00
21.10	23.4	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC. medium well screen(RMS) pipes with ribs, conforming to IS: 12818, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge.																				
	23.4.2	150 mm nominal size dia	Metre																	80.00	681.90	54,552.00
21.11	23.5	Supplying, filling, spreading & levelling **stone boulders** of size range 5cm to 20cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge	cum																	4.00	1302.30	5,209.20
21.12	23.6	Supplying, filling, spreading & levelling **gravel** of size range 5mm to 10mm, in recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge	cum																	4.00	1309.00	5,236.00
21.13	23.7	Supplying, filling, spreading & levelling **coarse sand** of size range 1.5mm to 2mm, in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer-in-charge	cum																	4.00	1309.00	5,236.00
0.01	23.9	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineer-in- charge.	Each																	300.00	1213.25	3,63,975.00
21.14	23.15	Providing and fixing **Bail plug/ Bottom** plug of required dia to the bottom of pipe assembly of tube well as per IS:2800 (part I)																				
	23.15.1	150 mm dia	each																	6.00	227.45	1,364.70

S. No.	DSR 2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (18	7 Type-II Quarters (10 Nos.) in Single	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-	11 Site Levelling	12 Retaining Wall & Stone Pitching	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
21.14	Derived from DSR 2019	Constructing brick masonry open surface drain with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 fine sand) including 10 cm thick bed concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and 25 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) for filling haunches including 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) with a floating coat of neat cement inside the drain, its top and exposed side including disposal of surplus earth complete as per standard design:																					
		a) 25 cm drain 30 cm average depth, With F.P.S. bricks	each																	300.00	1685.85	5,05,755.00
21.15	Derived from DSR 2019	Extra for additional depth for brick masonry open surface drain : a) 25 cm drain 30 cm depth, with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre																	10.00	428.05	4,280.50
		Total of sub-head (21.0) (DSR)																				**37,36,326.12**
22		**EXTERNAL WATER SUPPLY SYSTEM AND PUMPS** **DISTRIBUTION NETWORK FOR FRESH WATER SUPPLY**																				
22.01	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc external works																				
	18.12.3	25mm nominal bore	Metre																	75.00	417.95	31,346.25
	18.12.4	32mm nominal bore	Metre																	143.00	457.70	65,451.10
	18.12.5	40mm nominal bore	Metre																	188.00	558.35	1,04,969.80
	18.12.6	50mm nominal bore	Metre																	185.00	654.20	1,21,027.00
	18.12.7	65mm nominal bore	Metre																	138.00	768.60	1,06,066.80
	18.12.8	80mm nominal bore	Metre																	99.00	919.10	90,990.90
22.02	18.40	Painting GI pipes and fittings with two coats of anti corrosive bitumastic paint of approved quality																				
	18.40.3	25 mm dia. nominal bore	Metre																	75.00	15.25	1,143.75
	18.40.4	32 mm dia. nominal bore	Metre																	143.00	18.40	2,631.20
	18.40.5	40 mm dia. nominal bore	Metre																	188.00	20.95	3,938.60
	18.40.6	50 mm dia. nominal bore	Metre																	185.00	25.25	4,671.25
	18.40.7	65 mm dia. nominal bore	Metre																	138.00	31.30	4,319.40
	18.40.8	80mm nominal bore	Metre																	99.00	36.40	3,603.60
22.03	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : external works																				
	18.17.1	25mm nominal bore	Each																	3.00	532.35	1,597.05
	18.17.2	32 mm dia. nominal bore	Each																	5.00	589.90	2,949.50
	18.17.4	50mm nominal bore	Each																	1.00	707.30	707.30
	18.17.5	65mm nominal bore	Each																	1.00	1490.70	1,490.70
	18.17.6	80mm nominal bore	Each																	1.00	2227.60	2,227.60
22.04		Providing and filling sand of grading zone V or coarser grade all-round the G.I. pipes in external work																				
	18.41.3	25mm dia pipe	Metre																	75.00	164.10	12,307.50
	18.41.4	32mm dia pipe	Metre																	143.00	168.35	24,074.05
	18.41.5	40mm dia pipe	Metre																	188.00	170.50	32,054.00
	18.41.6	50mm dia pipe	Metre																	185.00	176.90	32,726.50
	18.41.7	65mm dia pipe	Metre																	138.00	279.20	38,529.60
	18.41.8	80mm dia pipe	Metre																	99.00	287.70	28,482.30
22.05	18.59	Providing and fixing **C.I double acting air valve** of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately) :																				
	18.59.1	50 mm dia	Each																	1.00	5171.75	5,171.75
	18.59.2	80 mm dia	Each																	1.00	6255.45	6,255.45
	18.59.3	100 mm dia	Each																	2.00	8193.10	16,386.20
22.06	18.31.1	Providing & Fixing C.I.sluice valve(with cap) complete with bolts,nuts,rubber insertions etc.(the tail pieces if required will be paid separately)																				
i)	18.31.1.1	100 mm dia pipe Class I	Each																	1.00	3977.60	3,977.60
ii)	18.32.1	Constructing masonry chamber 30x30x50 cm,inside with 75 class designation brick work in cement mortar 1:4 (1 cement:4 coarce sand) for stop cock complete with C.I. surface box 100x100x75mm (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2 corase sand: 4 graded stonr aggregate 20mm nominal size) necessary excavation foundation concret 1:5:10 (1 cement:5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortor 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design.	Each																	2.00	1712.15	3,424.30
22.07	18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard																				
	18.33.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each																	21.00	10102.50	2,12,152.50

S. No.	DSR 2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (18	7 Type-II Quarters (10 Nos.) in Single	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-	11 Site Levelling	12 Retaining Wall & Stone Pitching	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
22.08	**18**	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :																				
	18.34.1	18.34.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each																	4.00	17577.90	70,311.60
22.09	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :																				
	18.13.2	50 to 80 mm nominal bore	Item																	8.00	1513.70	12,109.60
22.10	ELECT. DSR 2018/ 16.11.1	BUTTERFLY VALVE (MANUAL) with C I body SS disc nitrile sheet & O - ring & PN 16 pressure rating as specified																				
	16.11.1.6	65 nominal bore	Each																	2.00	3821.00	7,642.00
	16.11.1.5	80 nominal bore	Each																	12.00	4055.00	48,660.00
22.11	ELECT. DSR 2018 / 16.11.2	NON - RETURN VALVE with dual plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating as specified																				
	16.11.2.2	150 nominal bore	Each																	2.00	7171.00	14,342.00
	16.11.2.4	100 nominal bore	Each																	8.00	4581.00	36,648.00
	16.11.2.5	80 nominal bore	Each																	6.00	3477.00	20,862.00
22.12	ELECT. DSR 2018 / 14.13	Providing and fixing GI pipes medium class conforming to IS 1239 with GI fittings including cutting hole chase painted with primer, two coats of enamel paints etc.																				
	14.13.3	100 mm dia, NB	Metre																	55.00	1806.00	99,330.00
	14.13.4	150 mm dia, NB	Metre																	25.00	2740.00	68,500.00
		Total of sub-head (22.0) (DSR)																				**13.43.078.75**
23.0		**Bore Well Installations (As per D.S.R)**																				
23.01	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-																				
	23.1.1	All types of soil																				
	23.1.1.1	300 mm dia	metre																	50.00	592.05	29,602.50
	23.1.2	Rocky strata including Boulders																				
	23.1.2.1	300 mm dia	metre																	15.00	1416.30	21,244.50
	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.	Meter																			
	23.3.3	200mm nominal dia	Meter																	40.00	951.95	38,078.00
23.02	23.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of																				
	23.4.3	200 mm nominal size dia	metre																	20.00	1099.25	21,985.00
23.03	23.8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction	cum																	4.00	1479.25	5,917.00
23.04	23.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	hour																	36.00	916.80	33,004.80
23.05	23.13	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement,																				
	23.13.3	200 mm nominal size dia	Each																	1.00	280.95	280.95
23.06	23.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete																				
	23.14.3	200 mm clamp	Each																	2.00	1827.00	3,654.00
23.07	23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I)																				
	23.15.3	200 mm dia	Each																	1.00	308.55	308.55
		Total of sub-head (23.0) (DSR)																				**1.54.075.30**

SCHEDULE OF QUANTITIES

Name of work : Construction of Eklavya Model Residential School (EMRS) at Block - Pathna, District Sahibganj, Jharkhand

ABSTRACT OF COST

S. No.	DSR-2021	Description	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Quantity	Rate (In Rs)	Amount (In Rs)
				School building (G+2)	Hostel Boys G+2	Hostel Girls G+2	Principal Residence	Kitchen & Dining	Type-III Quarters (8+7 =15 Nos.) plus 1	Type-II Quarters (10 Nos.) in Single Block	Security Cabin & Entrance Gate	Misc. Building (ESS Building)	Underground Sump & Pump Room (PH-I& II)(50,000+50,000LTRS.)	Site Levelling	Retaining Wall	Sports	Septic Tank & Soak Pit	Road	Boundary Wall			
		******Electrical works******																				
		FIRE FIGHTING WORKS																				
24.0	**DSR-2022**	**PIPING & VALVES**																				
24.01	7	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges ,tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as																				
	7.1	25 mm dia.	Metre	6.00	6.00	6.00														18.00	744.00	13,392.00
	7.5	65 mm dia.	Metre	20.00	20.00	20.00														60.00	1614.00	96,840.00
	7.6	80 mm dia.	Metre	70.00	50.00	50.00														170.00	1885.00	3,20,450.00
	7.7	100mm dia	Metre	15.00	15.00	15.00														45.00	2550.00	1,14,750.00
24.02	14	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS:5312 complete with rubber gasket, GI bolts, nuts washers etc as required :																				
	14.5	80mm dia	Nos	1	1	1.00														3.00	7691.00	23,073.00
24.03	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :																				
	18.17.1	25 mm dia.	Nos	6	6	6.00														18.00	532.35	9,582.30
24.04	11	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following																				
	11.5	100 mm dia.	Nos	2	2	2.00														6.00	6667.00	40,002.00
24.05	15	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.																				
	15.2	100mm dia	Each	1	1	1.00														3.00	6664.00	19,992.00
24.06	MR 1	Providing and fixing 150 mm dial diameter size **Pressure gauge** (0-15 Kg/Cm2) complete with shut off valve duly calibrated before installation complete as required & as per enclosed specification.	Nos	1	1	1.00														3.00	675.00	2,025.00
		Total of sub-head (24.0) (DSR)																				**6,38,081.30**
		Total of sub-head (24.0) (NON DSR)																				**2,025.00**
25.0		**FIRE HYDRANT ACCESSORIES**																		-		-
25.01	17	Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required. 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipmets on wall. Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.																		-		-
	17.1	30m	Nos	6	6	6.00														18.00	8,675.00	1,56,150.00
																				-		-
		Total of sub-head (25.0) (DSR)																				**1,56,150.00**
																				-		-
26.0		**FIRE EXTINGUISHERS & MISC. ITEMS**																		-		-
26.01	MR	Providing and fixing Carbon-di-oxide fire extinguishers consisting of welded M.S cylindrical body, squeeze lever discharge valve fitted with internal discharge tube, 30cms long high pressure discharge hose, discharge nozzle, suspension bracket, confirming to IS : 15683 finished externally with red enamel paint and fixed to wall with brackets with rawl plug/dash fasteners complete with internal charge. Capacity 4.5 kg. ISI Marked.(Contractor should submit test certificate form manufacturer along with serial number of every extinguishers supplied.)	Nos					2												2.00	7,131.00	14,262.00
		'																		-		-
26.02	MR	Providing and fixing (ABC Dry Chemical Powder) type Fire Extinguisher of Capacity 6 kg Confirms to IS 15683, bearing ISI mark complete with brass forged squeeze grip type valve fitted with pressure gauge , pressurize with dry Nitrogen gas filled, with discharge nozzle with wall mounting bracket (rubber gripped) complete with internal charges. (Contractor should submit test certificate form manufacturer along with serial number of every extinguishers supplied.)	Nos	12	9	9.00		6			1	2								39.00	2,825.00	1,10,175.00
26.03	MR	Providing and fixing water Carbon-di-oxide (ISI marked) extinguishers including all accessories as per IS specification with wall bracket with rawl plug complete as reqd.(Contractor should submit test certificate form manufacturer along with serial number of every extinguishers supplied.)	Nos									2								2.00	3,582.00	7,164.00
		Capacity 9 Litres																				
																				-		-
		Total of sub-head (26.0) (Non DSR)																				**1,31,601.00**
																				-		-
27.0		**FIRE PUMPS & ACCESSORIES**																		-		-

S. No.	DSR-2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (8+7 =15 Nos.) plus 1	7 Type-II Quarters (10 Nos.) in Single Block	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	11 Site Levelling	12 Retaining Wall	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
27.01	MR	Supplying, installation, testing and commissioning of electric driven terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Terrace Pump)																		-		-
																				-		-
		(a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical confirming to IS -1520.																		-		-
		b) Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horiziontal foot mounted type with Class-'F' insulation, conforming to IS-325																		-		-
		(c) M.S.fabricated common base plate, coupling, coupling guard, foundation bolts etc as required.																		-		-
		(d) Suitable cement concrete foundation duly plastered and with anti vibration pads.																		-		-
		450 lpm at 35 m Head	Set	1.00	1.00	1.00														3.00	86,203.00	2,58,609.00
27.02	MR	Providing and fixing rubber expansion joint (to provide relief from stresses at pipe flanges) as per specification of the manufacturers and direction of Engineer in chief PN-16 rating.																		-		-
		(a) 100 mm dia	Nos	1	1	1														3.00	560.00	1,680.00
27.03	20	Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and paintingwith synthetic enamel paint of approved shade as required.	Nos	1	1	1														3.00	18,244.00	54,732.00
																				-		-
27.04	MR	Providing, fixing, testing and commissioning of control panel for Terrace Booster pumps. Incoming: MCCB 35A 1 set of Phase indicating lamps, 1 set of 35A Al bus bars, 1No Ammeter, 1No Voltmeter with phase selector switch Feeder for Booster Pumps - 1 No. 1 No. 32A TP MCCB without releases. DOL starter with over load relay, single phase preventor and indicating lamps with ON/OFF push buttons. 1 No. Automanual selector switch. Suitable for booster pumps"	Nos	1	1	1														3.00	34,429.00	1,03,287.00
		Total of sub-head (27.0) (DSR)																				**3,13,341.00**
		Total of sub-head (27.0) (Non DSR)																				**1,04,967.00**
		ELECTRICAL WORKS (Internal)																				
28.0		**Internal Wiring**																				
		Point wiring in PVC conduit, with modular type switch :-																				
28.01	1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated 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 FRLS PVC insulated																				
	1.10.1	Group A	Point		398	398			366	179										1341.00	1015.00	13,61,115.00
	1.10.2	Group B	Point				30													30.00	1182.00	35,460.00
	1.10.3	Group C	Point	392			3	95				18								508.00	1467.00	7,45,236.00
28.02	1.55	Wiring for group controlled (looped) light point/ fan point/ exhaust fan point/ call bell point (without independent switch etc) with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit, and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc as required. **(Note: To be provided in class rooms in school**																				
	1.55.1	Group A	Point		132	132			18	9										291.00	649.00	1,88,859.00
	1.55.2	Group B	Point				2													2.00	753.00	1,506.00
	1.55.3	Group C	Point	195			1	32				14								242.00	858.00	2,07,636.00
28.03	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	Point	10	8	8			12	6										44.00	1562.00	68,728.00
		Power plug wiring in PVC conduit (2 x 4																				
28.04	1.12	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing	Metre	684	410	410	144	336	1944	840		84								4852.00	334.00	16,20,568.00
		Circuit / Sub main wiring in PVC conduit :-																				
28.05	1.14	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.																				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	Metre	1325.00	1100.00	1100	60	141.00	686	355		30								4797.00	233.00	11,17,701.00
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	Metre	1325.00	1100.00	1100	68	141.00	648	360		30								4772.00	439.00	20,94,908.00
	1.14.4	2 x 6 sq.mm. + 1 x 6 sq.mm. Earth wire	Metre	540.00	40.00	40	60	85.00	360			20								1145.00	570.00	6,52,650.00
	1.14.5	2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire	Metre	630.00					630	350										1610.00	754.00	12,13,940.00
	1.14.10	4 x 10 sq.mm. + 2 x 6 sq.mm. Earth wire	Metre	420.00	315.00	315	70	70.00												1190.00	1005.00	11,95,950.00
	1.14.11	4 x 16 sq.mm. + 2 x 6 sq.mm. Earth wire	Metre	25.00																25.00	753.00	18,800.00
		S/F light plug point Modular Type Accessories :-																				
28.06	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	198	276	276	9	29	108	60		4								960.00	477.00	4,57,920.00

S. No.	DSR-2021	Description	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Quantity	Rate (In Rs)	Amount (In Rs)
				School building (G+2)	Hostel Boys G+2	Hostel Girls G+2	Principal Residence	Kitchen & Dining	Type-III Quarters (8+7 =15 Nos.) plus 1	Type-II Quarters (10 Nos.) in Single Block	Security Cabin & Entrance Gate	Misc. Building (ESS Building)	Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	Site Levelling	Retaining Wall	Sports	Septic Tank & Soak Pit	Road	Boundary Wall			
		S/F power plug point modular Type Accessories :-																				
28.07	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular	Each	57	36	36	9	23.00	162.00	70		7								400.00	586.00	2,34,400.00
28.08	2.18	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, 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	Each	6	2	2	3	1	18											32.00	1621.00	51,872.00
28.09	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	2	1	1	1		18	10										33	99.00	3,267.00
28.10	MR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. of 3 pin 5/6 A modular socket outlet and 2 nos. of 5/6 A		45																45	676.00	30,420.00
		Total of sub-head (28.0) (DSR)																				**1,12,70,516.00**
		Total of sub-head (28.0) (Non-DSR)																				**30,420.00**
29.0		**Distribution Boards & MCB'S**																				
29.01	2.10	Supplying and fixing **5 A to 32 A rating, 240/415 V, 10 kA, "C" curve**, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and																				
	2.10.1	Single pole	Each	414	144	144	40	48	180	90	20									1080.00	256.00	2,76,480.00
	2.10.5	Triple pole and neutral	Each	9																9.00	1228.00	11,052.00
29.02	2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	20	6	6	2	20	18	10	20									102.00	13.00	1,326.00
29.03	2.4	Supplying and Fixing Following way, Horizontal Type **Three Pole and Neutral, Sheet Steel, MCB Distribution Board, 415 V,** on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without																				-
	2.4.2	6 Way (4 + 18), Double Door	Each	6			1													7.00	4974.00	34,818.00
	2.4.3	8 Way (4 + 24), Double Door	Each	6	6	6	1	2												21.00	5967.00	1,25,307.00
29.04	2.3	Supplying and fixing following way, **Single Pole and Neutral**, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).																				-
	2.3.1	6 Way Double door.	Each	3								2								5.00	2206.00	11,030.00
	2.3.2	8 Way Double door.	Each	9								1								10.00	2573.00	25,730.00
	2.3.3	12 Way Double door.	Each	6					18.00	10.00										34.00	2315.00	78,710.00
		S/F **DP MCB Isolator**																				-
29.05	2.12	Supplying and fixing following Rating, Double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as Required.																				-
	2.12.1	40 Amps	Each	18								3								21.00	435.00	9,135.00
	2.14.3	63 Amps	Each						18.00	10.00										28.00	527.00	14,756.00
		S/F **4P MCB Isolator**																				-
29.06	2.13	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as																				-
	2.13.2	63 Amps	Each	12	3	3		2												20.00	1034.00	20,680.00
	2.13.3	100 Amps	Each		3	3	1													7.00	1227.00	8,589.00
		S/F **DP (RCCB)**																				-
29.07	2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as Required.																				-
	2.14.2	40 Amps	Each	18																18.00	2642.00	47,556.00
	2.14.3	63 Amps	Each						18.00	10.00										28.00	2722.00	76,216.00
29.08	2.15	Supplying and fixing following rating, Four pole, (Threee phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc.																				
	2.15.2	40 Amps	Each				1													1.00	3188.00	3,188.00
	2.15.3	63 Amps	Each	12	6	6	1	2												27.00	2872.00	77,544.00
29.09	2.5	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used																				
	2.5.1	4 way (4 + 12), Double door	Each	1	1	1		1												4.00	7512.00	30,048.00
29.10	2.23	Supplying and fixing Cable End Box (Loose Wire Box) suitable for following single pole and neutral, sheet steel, MCB distribution board, 240 Volts, on surface/ recess, complete with testing and																				
	2.23.1	For 6 way, Double door SPN MCBDB		3								2								5.00	752.00	3,760.00
	2.23.2	For 8 way, Double door SPN MCBDB		9								1								10.00	832.00	8,320.00

S. No.	DSR-2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (8+7 =15 Nos.) plus 1	7 Type-II Quarters (10 Nos.) in Single Block	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	11 Site Levelling	12 Retaining Wall	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
	2.23.3	For 14 way, Double door SPN MCBDB		6					18.00	10.00										34.00	902.00	30,668.00
29.11	2.24	Supplying and fixing Cable End Box (Loose Wire Box) suitable for following tripole pole and neutral, sheet steel, MCB distribution board, 415 Volts, on surface/ recess, complete with testing and commissioning etc. as required																				
	2.24.1	For 4 way, Double door TPN MCBDB			1															1.00	1080.00	1,080.00
	2.24.2	For 6 way, Double door TPN MCBDB		6			1													7.00	1124.00	7,868.00
	2.24.3	For 8 way, Double door TPN MCBDB		6	6	6	1	2												21.00	1340.00	28,140.00
29.10	MR	Supplying and fixing following rating, Single/ double/ three pole, 230/ 415 volts, MCB "C" curve in the existing MCB DB complete with connections, testing and commissioning etc. as required																				
		63 amps FP MCB	Each	12	12	12	1	12												49.00	1463.00	71,687.00
		NOTE : ONE DB MUST BE USED FOR EMERGENCY SUPPLY ON EACH FLOOR																				
		Total of sub-head (29.0) (DSR)																				**9,32,001.00**
		Total of sub-head (29.0) (Non-DSR)																				**71,687.00**
30.0		**Telephone, Television & Data System (Socket Wiring & Conduting Only)**																				
		S/F Modular Boxes, Base & Cover Plate :-																				
30.01	1.27	Supplying and Fixing Following Size/ Modules, GI Box Alongwith Modular Base & Cover Plate for Modular Switches in Recess etc. as Required																				
	1.27.1	1 or 2 Module (75 mm x 75 mm)	Each	106	5	7	5	2	36	20		1								182.00	298.00	54,236.00
	1.27.2	3 Module (100mmX75mm)	Each	45.00																45.00	327.00	14,715.00
		S/F Modular Type Switch / Socket :-																				
30.02	1.24	Supplying and Fixing Following Modular Switch/ Socket on The Existing Modular plate & Switch Box including connections But Excluding Modular Plate etc. as required																				
31.02.01	1.24.6	Telephone Socket outlet.	Each	27	2	2	2	1	18	10										62.00	148.00	9,176.00
31.02.02	1.24.7	TV Antenna socket outlet.	Each	4	2	2	2	1	18	10										39.00	148.00	5,772.00
31.02.03	1.24.8	Bell push	Each	2.00	1.00	1			18											22.00	126.00	2,772.00
30.03	1.21	Supplying and fixing of following sizes of 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.																				
31.03.01	1.21.1	20 mm.	Metre	2415	115	115	40	50	270	150										3155.00	128.00	4,03,840.00
31.03.02	1.21.2	25 mm.	Metre	40	50	50	20	25	180	100										465.00	145.00	67,425.00
30.04	1.18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, Unarmored Telephone cable in the existing surface/ recessed steel/ PVC conduit as required																				
	1.18.2	2 Pair	Metre	675	40	40	40	30	360	200										1385.00	38.00	52,630.00
30.05	1.19	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required	Metre	80	40	40	30	40	270	150										650.00	47.00	30,550.00
30.06	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required																				
	1.53.1	1 run of cable	Metre	1875	75	75	25	25												2075.00	57.00	1,18,275.00
30.07	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as require	Each	2.00	1.00	1			18											22.00	92.00	2,024.00
30.08	MR 1	SITC Modular Type Computer jack **RJ 45** ISI mark 1 Module on existing Mounting plate and box Complete	Each	75	3	3	1	1												83.00	198.00	16,434.00
		Total of sub-head (30.0) (DSR)																				**7,61,415.00**
		Total of sub-head (30.0) (Non DSR)																				**16,434.00**
31.0		**Internal Lighting Fixtures & Fans**																				
31.01	MR 2	Supply of 20 Watt LED light Wall Mounted BRACKET light fitting Sutaible for 220 volts Single Phase A C Supply complete with all accessories as	Each				1													1.00	800.00	800.00
31.02	MR 3	Supply of Surface Mounted Energy Efficient, LED Luminaires 12W LED DOWN LIGHT (Round) Sutaible for 220v Single Phase Supply complete with driver circuit including making connections etc.as required. (Technical Data - System power 12W, CRI ≥80, Power Factor ≥0.95, System Luminous Efficacy	Each	30	24	24														78.00	739.00	57,642.00
31.03	MR 4	Supply of Surface Mounted Energy Efficient, LED Luminaires 15W LED DOWN LIGHT (Round) Sutaible for 220v Single Phase Supply complete with driver circuit including making connections etc.as required. (Technical Data - System power 15W, CRI ≥80, Power Factor ≥0.95, System Luminous Efficacy	Each						20	15										35.00	792.00	27,720.00
31.04	MR 5	Supplying of brass batten/ angle holder including 20 w LED Lamp, connection etc. as required.	Each	38	101	101	13	20	144	80										497.00	300.00	1,49,100.00
31.04	MR 5	Supply, of Linear & Compact 10W Mirror Light with Decorative Grey Caps, Polycarbonate Body & Ribbed Opal Diffuser. (Technical Data - System power 10W, CRI ≥80, Power Factor ≥0.95, System Luminous Efficacy ≥100)	Each				1													1.00	273.00	273.00
31.05	MR 6	Supply of LED Luminaires BATTEN 40W LED Tube Light of Box Type prewired Indoor Luminaire with Energy Efficient Electronic Ballast, with End Caps Complete as Required. (Technical Data - System power 40W, CRI ≥80, Power Factor ≥0.95, System Luminous Efficacy ≥95)	Each		136	136		60												332.00	898.00	2,98,136.00

S. No.	DSR-2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (8+7 =15 Nos.) plus 1	7 Type-II Quarters (10 Nos.) in Single Block	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	11 Site Levelling	12 Retaining Wall	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
31.06	MR 7	Supply of LED Luminaires BATTEN 20W LED Tube Light of Box Type Prewired Indoor Luminaire with Energy Efficient Electronic Ballast, with End Caps Complete as Required.(Technical Data - System power 20W, CRI ≥80, Power Factor ≥0.95, System	Each	356	103	103	9	4	94	43		23								735.00	379.00	2,78,565.00
31.07	MR 8	Supplying and fixing of Bulk Head with 10 Watt LED lamp fitting Sutaible for 230 volts Single Phase A C Supply complete with all accessories as required.	Each	3	6	6	2	3	6	1										27.00	1203.00	32,481.00
		SUPPLY FANS & EXHAUST FANS																				
31.07	MR 8	Supply, of following size sweep, BEE 5 star rated, white colour ceiling fan with all accessories i.e. 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, safety pin,nut bolts, washers, , suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as																				
		(a) 1200 mm Sweep	Each	139	145	145	7	26	72	30	5									569.00	1775.00	10,09,975.00
31.08	MR9	Supply of following sweep heavy duty metal body exhaust fan/wall fan/ fresh air (ventilating) plastic body fan with guard suitable operation on single phase 230 V, 50Hz. AC Supply, with lowers / shutters in the existing opening. (Crompton - Trans Air 300/200mm/Approved Equivalent in Usha/Havells/Bajaj)																				
		(a) 200 mm sweep 900 RPM (in plastic body)Ventilat	Nos	7	1	1	4	8												21.00	1033.00	21,693.00
		(b) 200 mm sweep 900 RPM (in plastic body)Ventilating fan			13	13			18	10										54.00	1543.00	83,322.00
		(c) 300 mm sweep 900 RPM (In metal body) exhaust fan	Nos	9				6												15.00	2,873.00	43,095.00
		(d) 450 mm sweep 900 RPM (In metal body) exhaust fan	Nos									4								4.00	4,530.00	18,120.00
		e) 400 mm sweep oscillating type four speed wall mounting fan	Nos.	3																3.00	2,448.00	7,344.00
		Erection Of Lighting Fixtures And Fans																				
31.09	1.41	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as	Each	386	364	364	11.00	64.00	114.00	58.00		23								1384.00	206.00	2,85,104.00
31.10	1.45	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover	Each	139	145	145	7	26	72	30	5									569.00	339.00	1,92,891.00
31.11	1.50	Installation of Exhaust/wall fan in the existing opening, including making good the damage, Connection, Testing, Commissioning etc. as Required.																				
	1.50.1	Upto 450 mm sweep	Each	19	14	14	4	14	18	10		4								97.00	450.00	43,650.00
		S/F modular type electronic fan regulator:																				
31.12	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	Each	139	145	145	7	26	72	30	5									569.00	369.00	2,09,961.00
		Fixing Louvers / Shutters for Exhaust Fan:																				
31.13	1.51	Extra for Fixing the Louvers/ Shutters Complete with Frame for a Exhaust Fan of all sizes	Each	9	14	14		6				4								47.00	207.00	9,729.00
		Extra Down GI Pipe 15mm Dia:																				
31.14	1.47	Supplying and Fixing Extra Down Rod of 10 cm Length G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm	Each	139	145	145	7	26	72	30	5									569.00	46.00	26,174.00
		Total of sub-head (31.0) (Non DSR)																				**20,28,266.00**
		Total of sub-head (31.0) (DSR)																				**7.67.509.00**
		ELECTRICAL WORKS (External)																				
32.0		**Transformer and HT Panel**																				
32.01	MR 1	**11KV HT VCB PANEL - IN DOOR TYPE**																				
		Supplying, installation, testing and commissioning of IN DOOR Type, floor mounting, 11KV HT panel unit made out of M.S sheet steel clad dust and vermin proof with necessary control fuses/MCBs, Termination arrangements for Incoming and Outgoing Cable of 3Cx120 Sq.mm Al.HT XLPE cable, and earthed cable, Terminal Blocks, Earthing, Powder coated painting, Sign writing and Base channels etc. with complete all accessories as required. as per Requirements comprising of the following.																				
		INCOMING : i) 630Amps, 11kV, 3 phase 50Hz, 21KA / 3Sec, Draw-out type Vacuum Circuit Breaker. fitted with 230V AC spring charging motor, 110V DC tripping and closing coils, 8NO+8NC Aux. conductor mechanical on off indicator, spring charging / discharge Indication, automatic safety shutter and with anti-pumping feature with necessary required																				-
		ii) 3 phase 11 KV/110 Volts PT, class 1 accuracy and 100 VA burden with 1 No Voltmeter (0-15 kV), Digital type, selector switch for voltmeter and protection fuses for HT metering upto 12 kV on																				
		iii) Dual core dual ratio 3 CTs 400/200/5+5A of 15 VA burden and accuracy class1.0 for metering and class 5P10 for protection																				

S. No.	DSR-2021	Description	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Quantity	Rate (In Rs)	Amount (In Rs)
				School building (G+2)	Hostel Boys G+2	Hostel Girls G+2	Principal Residence	Kitchen & Dining	Type-III Quarters (8+7 =15 Nos.) plus 1	Type-II Quarters (10 Nos.) in Single Block	Security Cabin & Entrance Gate	Misc. Building (ESS Building)	Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	Site Levelling	Retaining Wall	Sports	Septic Tank & Soak Pit	Road	Boundary Wall			
		iv) (0-400 A) Ammeter, digital type with selector switch for Ammeter																				
		v) Digital Multifunction Meter.																				
		vi) Microprocessor based numerical relay for Over current and Earth fault protection with directional control																				
		vii) Phase indicating lamps with HRC fuses.																				
		viii) Indicating lamps to indicate, RYB, ON, OFF, OPEN, CLOSE, TRIP, SPRING CHARGED, TRIP CIRCUIT HEALTHY																				
		ix) Test terminal block																				
		x) Trip/Neutral/close switch																				
		xi) Copper bus bar for earthing (common)																				
		xii) master trip relay & trip circuit healthy supervision relay																				
		BusBar: 630 Amps, 11kV, 50Hz, 3Phase, 25 KA / 3Sec. Copper busbars.																				
		The11KV HT VCB PANEL shall be complete with as per SLD and specifications.	set									1								1.00	448633.00	**4,48,633.00**
32.02	**MR 2**	**11KV TRANSFORMER (11 KV /0.433 KV) (250 KVA)**																				
		Supplying, installation, testing and commissioning of 250 kVA, (Energy efficiency Level -2) 11kV / 433 Volts, 3 phase, 50Hz,vector group Dyn11 (delta -star connected), Indoor 'ONAN' type, copper wound transformer with OFF load tap changing arrangement on HV side in steps of +/- 2.5%, +/- 5% & +/- 7.5%, on H.V. side with HT cable chamber suitable for Heat shrinkable joint with XLPE cable (cable entry from bottom) and LT connection chamber suitable for connecting Bus duct arrangement and equipped with other essential accessories including providing complete with all fittings, accessories etc. and lifting lugs i/c first filling of filtered dehydrated oil, supplying grouting suitable MS Channel on the plinth for placing the transformer etc., complete and confirming to IS 1180 (Part-1): 2014, level - 2 & section 3 of CPWD General specification for Electrical works (Part -IV Substation 2013 as	set									1								1.00	731480.00	**7,31,480.00**
		(PLEASE NOTE THE TRASNFOREMR SHALL BE IN COMPLINACE WITH NEW REGUALTION IS 1180 or Equivalent IEC Standard FOR LOSSES AND EFFICIENCY and																				
		Total of sub-head (32.0) (Non DSR)																				**11,80,113.00**
33.0		**PANELS**																				
	MR	**Emergency Panel**																				
		Supply , installation, testing, Design, manufacture, supply inspection, handling, assembling, affecting proper connections, testing and commissioning of 1.6/2mm CRCA sheet steel fabricated cubical type Main L.T. Panel floor mounting Extensible Type, dust & vermin proof, front operated construction, enclosure class - **IP 42, As per IEC 60439** after proper treatment with 9 tank process with top/bottom removable gland plates, as required, double compression type cable glands, earth bus, hinged and lockable doors to achieve dust and vermin proof complete with all inter connections small wiring by min. 1.5-2.5 sq. mm. FR copper wires, ckt labels etc.																					
		INCOMING:																				
		1 nos. 100A 415V,FP MCCB of 25kA with thermal magnetic release, overload, short circuit and Earth fault protection																				
		1 no. 100A, 17KA rating FP Automatic Transfer Switch (ATS) must comply with IEC60947-6-1 standards																				
		1 no. Digital type Multifunction Meters to show (V, A, kWh, KVAh, KW, KVA, KVAR, PF, Hz.) with cast resin CTs																				
		1 Set of phase indicating lamps with MCB protection.																				
		OUTGOING																				
		1 nos. 100A 415V, TP MCCB of25 KA with O/L and S/C protection (For pump set)																				
		6 nos. 63A 4P MCCB (For Toilets, commaon areas of School bldg., Both hostels, Kitchen & dining)																				
		2 nos. 63A , 4P MCCB only Space.																				
		2 nos. 40A 415V, 4P MCCB of 10kA with 40A 4P Contactor & timer switch																				
		2 nos. 25A 415V, 4P MCCB (SPARE)	Each																	1.00	75206.00	75,206.00
												1.00										-
33.01	MR 4	**Main LT PANEL**																				
		NOTE:- MCCB's wherever specified upto 250A shall be Thermal Magnetic & Above 250A will be Microprocessor based inbuilt protections.																				
		Supply , installation, testing, Design, manufacture, supply inspection, handling, assembling, affecting proper connections, testing and commissioning of 1.6/2mm CRCA sheet steel fabricated cubical type Main L.T. Panel floor mounting Extensible Type, dust & vermin proof, front operated construction, enclosure class - **IP 42, As per IEC 60439** after proper treatment with 9 tank process with top/bottom removable gland plates, as required, double compression type cable glands, earth bus, hinged and lockable doors to achieve dust and vermin proof complete with all inter connections small wiring by min. 1.5-2.5 sq. mm. FR copper wires, ckt labels etc. The panel feeders shall be suitable for terminating suitable nos. 3.5 /4 core armoured aluminium cable																					
		All MCCB's shall be Ics = 100% Icu, with rotary handle & pad locking arrangement. All TP MCCB shall be with heavy duty solid isolable neutral link																				

S. No.	DSR-2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (8+7 =15 Nos.) plus 1	7 Type-II Quarters (10 Nos.) in Single Block	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	11 Site Levelling	12 Retaining Wall	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
		The breaking capacity specified for all MCCB's breakers is Ics value (service rating)																				
		Each Incoming (ACB/MCCB) shall have ON/OFF/Trip/ LED indication on panel Front door																				
		The incoming MCCB shall be Microprocessor based with inbuilt O/L & S/C release with E/F protection and all Outgoings MCCB's shall be thermal-magnetic based with inbuilt O/L & S/C release.																				
		Incoming From TRANSFORMER 1 (250 KVA) - 1 NOS. (Phase I)																				
		Incomer : 1 Nos 400A TP MCCB 36KA with Thermal Magnetic Release																				
		1 No. Digital Ammeter																				
		1 No. Digital Voltmeter																				
		1 set of 3 CT's of ratio 400/5A, Class 1.0 accuracy 15 VA burden for Metering																				
		1 set of 3 CT's of ratio 400/5A, Class 1.0 accuracy 15 VA burden for APFCR.																				
		3 Nos. LED Type phase indicating lamps, each lamp shall be with backup MCB																				
		3 Nos. LED Type Indicating lamp for indicating the status of feeder - ON / OFF / TRIP. Each lamp shall be with backup MCB																				
		6A SP 10KA MCB																				
		Incoming From Supply Source-2 - 1 Nos 400A TP MCCB 36KA with Thermal Magnetic Release (Phase II) - for future Feeder																				
		BUS COUPLER : 1 Nos 400A TP MCCB 36KA . It should be positioned in such manner so that all electrical loads are separated by separate bus bar chambers in the panel																				
		Interlocking : Electrical as well as Mechanical Interlocking between incomers and bus coupler shall be executed in such a manner that only two sources should be in circuit at a time.																				
		BUS BAR																				
		TPN Aluminium Bus Bars of Minimum 500 Amp with Heat shrinkable coloured sleeves , Shrouds at Joints and including DMC/SMC bus bars supports at required interval complete for cross section, side spacers and their spacing etc.																				
		OUT GOING																				
		21 Nos. Outgoing Feeders i/c vacant spaces :-																				
		1 Nos. 250A, TP 25KA MCCB (CAPACITOR PANEL)																				
		1 Nos. 250A, FP 25KA MCCB (TYPE II METER BOARD PANEL)																				
		1 Nos. 200A, FP 25KA MCCB (TYPE III METER BOARD PANEL - BLOCK 1)																				
		1 Nos. 160A, FP 25KA MCCB (TYPE III METER BOARD PANEL - BLOCK 2)																				
		1 No 160 AMP 4P 25KA MCCB (SCHOOL BUILDING PANEL)																				
		1 No 125 AMP 4P 18KA MCCB (GIRLS HOSTEL-I & WARDEN BLOCK PANEL)																				
		1 No 160 AMP 4P 25KA MCCB (FIRE FIGHTING)																				
		1 No 100 AMP 4P 18KA MCCB (Pump Room Panel)																				
		1 No 100 AMP 4P 18KA MCCB (EXTERNAL LIGHTING - 1)																				
		1 No 100 AMP 4P 18KA MCCB (EXTERNAL LIGHTING - 2)																				
		1 No 63 AMP 4P 10KA MCCB (GUEST HOUSE DB)																				
		1 Nos. 125A, FP 18KA MCCB (BOYS HOSTEL-I & WARDEN BLOCK PANEL)																				
		1 Nos. 125A, FP 18KA MCCB (Girls Hostel-II)																				
		1 Nos. 100A, FP 18KA MCCB (PRINCIPAL QUARTER PANEL)																				
		1 Nos. 200, FP 25KA MCCB (To Emergency MV Panel)																				
		1 Nos. 160, FP 25KA MCCB (Boys Hostel-II)																				
		3 No 63 AMP 4P 10KA MCCB (Spare)																				
		Spare space for MCCB - 02 Nos.																				
		Complete Panel as Above and complete	set									1								1.00	453310.00	4,53,310.00
																						-
33.02	MR 5	**AUTOMATIC POWER FACTOR CORRECTION PANEL (CAPACITOR PANEL) - 90 KVAR**																				
		Supplying, Installation, Testing and Commissioning of cubicle type capacitior panel suitable for 415 & 3																				
		a) 250 Amps TP MCCB with Thermal Magnetic Based release (Ics=100% Icu) - 1 No.																				
		b) 250A, 4 strip Tinned Aluminium busbar -1 Set																				
		c) Micro processor based automatic Power factor control relay i/c power factor metre in 8 steps																				
		d) Multi functional meters with suitable CTS and protection MCBS 1 set																				
		e) 3 Nos. Phase indicating light (lamp) with MCBs protection																				
		OUTGOINGS -																				
		2 Set - 63A Amp TP MCCB 10 KA and Capacitor duly switching contactor for 20 KVAR capacity auto mannual selector switch start/stop puch button on/off indicatting lamp with protection MCB & delay timer complete i/c 20 KVAR Normal Duty 440V capacitor																				
		4 Set -32 Amp TP MCCB 10 KA and Capacitor duly switching contactor for 10 KVAR capacity auto mannual selector switch start/stop puch button on/off indicatting lamp with protection MCB & delay timer complete i/c 10 KVAR Normal Duty 440V capacitor																				

S. No.	DSR-2021	Description	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Quantity	Rate (In Rs)	Amount (In Rs)
				School building (G+2)	Hostel Boys G+2	Hostel Girls G+2	Principal Residence	Kitchen & Dining	Type-III Quarters (8+7 =15 Nos.) plus 1	Type-II Quarters (10 Nos.) in Single Block	Security Cabin & Entrance Gate	Misc. Building (ESS Building)	Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	Site Levelling	Retaining Wall	Sports	Septic Tank & Soak Pit	Road	Boundary Wall			
		2 Set - 16 Amp TP MCCB 10 KA and Capacitor duly switching contactor for 5 KVAR capacity auto mannual selector switch start/stop puch button on/off indicatting lamp with protection MCB & delay timer complete i/c 5 KVAR Normal Duty 440V capacitor																				
		Capacitor panel should switch OFF when DG starts. Control wiring should be done for it.																				
		complete panel as above and complete	set									1								1.00	166042.00	166042.00
																						-
33.03	MR 6	**SCHOOL BUILDING MAIN DISTRIBUTION PANEL**																				
		Design, manufacture, supply, installation, testing and commissioning of cubicle type panel fabricated out of CRCA sheet steel , floor mounted totally enclosed switchbaord suitable for use of 415 volts , 3 phase, 50 HZ complete with aluminium bus bar and all accessories including supply and fixing of following incoming and outgoing switchgears, Panel Should Have Double Earthing Provision which connected to																				
		NOTE:- MCCB's wherever specified upto 250A shall be Thermal Magnetic & Above 250A will be Microprocessor based inbuilt protections.																				
		INCOMER : 160 AMP FP MCCB																				
		3 Nos. Phase Indication light (lamp) with MCBs protection.																				
		Multi functional meters (VAF) with suitable CTS and protection MCBS 1 set																				
		BUS BAR : 200 AMP, 500 Volts, 3 phase 50 HZ 4P high conductivity electrolytic Aluminium bus bar of suitable length, insulated by heat shrinkable sleeves. The current density of bus bar shall be																				
		The Maximum allowable temperature for the Bus bar to be restricted to 90 deg C. The temperature rise should be restricted to 45 deg C above ambient temperature.																				
		OUT GOINGS :																				
		1 No 63 AMP 4P MCCB (UPS PANEL)																				
		1 No 63 AMP 4P MCCB (GROUND FLOOR LIGHT + POWER DB 1)																				
		1 No 63 AMP 4P MCCB (GROUND FLOOR LIGHT + POWER DB 2)																				
		1 No 63 AMP 4P MCCB (GROUND FLOOR LIGHT + POWER DB 3)																				
		1 No 63 AMP 4P MCCB (GROUND FLOOR LIGHT + POWER DB 4)																				
		1 No 63 AMP 4P MCCB (FIRST FLOOR LIGHT + POWER DB 1)																				
		1 No 63 AMP 4P MCCB (FIRST FLOOR LIGHT + POWER DB 2)																				
		1 No 63 AMP 4P MCCB (FIRST FLOOR LIGHT + POWER DB 3)																				
		1 No 63 AMP 4P MCCB (FIRST FLOOR LIGHT + POWER DB 4)																				
		1 No 63 AMP 4P MCCB (SECOND FLOOR LIGHT + POWER DB 1)																				
		1 No 63 AMP 4P MCCB (SECOND FLOOR LIGHT + POWER DB 2)																				
		1 No 63 AMP 4P MCCB (SECOND FLOOR LIGHT + POWER DB 3)																				
		1 No 63 AMP 4P MCCB (SECOND FLOOR LIGHT + POWER DB 4)																				
		3 No 63 AMP 4P MCCB (SPARE)																				
		complete panel as above and complete	set	1																1.00	126660.00	126660.00
																						-
33.04	MR 7	**UPS PANEL**																				
		Design, manufacture, supply, installation, testing and commissioning of cubicle type panel fabricated out of CRCA sheet steel , floor mounted totally enclosed switchbaord suitable for use of 415 volts , 3 phase, 50 HZ complete with aluminium bus bar and all accessories including supply and fixing of following incoming and outgoing switchgears, Panel Should Have Double Earthing Provision which connected to																				
		INCOMER : 1 Nos 63 AMP FP MCCB (Thru Bypass Switch 10 KVA UPS)																				
		BUS BAR : 100 AMP, 500 Volts, 3 phase 50 HZ FP high conductivity electrolytic Aluminium bus bar of suitable length, insulated by heat shrinkable sleeves. The current density of bus bar shall be																				
		The Maximum allowable temperature for the Bus bar to be restricted to 90 deg C. The temperature rise should be restricted to 45 deg C above ambient temperature.																				
		OUT GOINGS :																				
		1 No 63 AMP DP MCB (GROUND FLOOR UPS DB 1)																				
		1 No 40 AMP DP MCB (GROUND FLOOR UPS DB 2)																				
		1 No 40 AMP DP MCB (FIRST FLOOR UPS DB 1)																				
		1 No 40 AMP DP MCB (FIRST FLOOR UPS DB 2)																				
		2 No 40 AMP DP MCB (Second Floor UPS DB-1&2)																				
		1 No. 40Amp. DP MCB (Spare)																				
		complete panel as above and complete	set	1																1.00	22567.00	22567.00
																						-
33.05	MR 8	**BOYS HOSTEL MAIN DISTRIBUTION BOARD**																				
		Design, manufacture, supply, installation, testing and commissioning of cubicle type panel fabricated out of CRCA sheet steel , floor mounted totally enclosed switchbaord suitable for use of 415 volts , 3 phase, 50 HZ complete with aluminium bus bar and all accessories including supply and fixing of following incoming and outgoing switchgears, Panel Should Have Double Earthing Provision which connected to																				

S. No.	DSR-2021	Description	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Quantity	Rate (In Rs)	Amount (In Rs)
				School building (G+2)	Hostel Boys G+2	Hostel Girls G+2	Principal Residence	Kitchen & Dining	Type-III Quarters (8+7 =15 Nos.) plus 1	Type-II Quarters (10 Nos.) in Single Block	Security Cabin & Entrance Gate	Misc. Building (ESS Building)	Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	Site Levelling	Retaining Wall	Sports	Septic Tank & Soak Pit	Road	Boundary Wall			
		NOTE:- MCCB's wherever specified upto 250A shall be Thermal Magnetic & Above 250A will be Microprocessor based inbuilt protections																				
		INCOMER : 125 AMP FP MCCB																				
		3 Nos. Phase Indication light (lamp) with MCBs protection																				
		Multi functional meters (VAF) with suitable CTs and protection MCBS 1 set																				
		BUS BAR : 160 AMP, 500 Volts, 3 phase 50 HZ 4P high conductivity electrolytic Aluminium bus bar of suitable length, insulated by heat shrinkable sleeves. The current density of bus bar shall be minimum 0.6 sq mm / amp																				
		The Maximum allowable temperature for the Bus bar to be restricted to 90 deg C. The temperature rise should be restricted to 45 deg C above ambient temperature																				
		OUT GOINGS :																				
		1 No 63 AMP 4P MCCB (GROUND FLOOR LIGHT + POWER DB 1)																				
		1 No 63 AMP 4P MCCB (GROUND FLOOR LIGHT + POWER DB 2)																				
		1 No 63 AMP 4P MCCB (GROUND FLOOR LIGHT + POWER DB 3)																				
		1 No 63 AMP 4P MCCB (FIRST FLOOR LIGHT + POWER DB 1)																				
		1 No 63 AMP 4P MCCB (FIRST FLOOR LIGHT + POWER DB 2)																				
		1 No 63 AMP 4P MCCB (FIRST FLOOR LIGHT + POWER DB 3)																				
		1 No 63 AMP 4P MCCB (SECOND FLOOR LIGHT + POWER DB 1)																				
		1 No 63 AMP 4P MCCB (SECOND FLOOR LIGHT + POWER DB 2)																				
		1 No 63 AMP 4P MCCB (SECOND FLOOR LIGHT + POWER DB 3)																				
		1 No 63 AMP 4P MCCB (WARDEN BLOCK 1 DB)																				
		2 Nos. 63 AMP 4P MCCB SPARE																				
		complete panel as above and complete	set		1															1.00	97919.00	97,919.00
																						-
33.06	MR 9	**GIRLS HOSTEL MAIN DISTRIBUTION BOARD**																				
		Design, manufacture, supply, installation, testing and commissioning of cubicle type panel fabricated out of CRCA sheet steel , floor mounted totally enclosed switchbaord suitable for use of 415 volts , 3 phase, 50 HZ complete with aluminium bus bar and all accessories including supply and fixing of following incoming and outgoing switchgears, Panel Should Have Double Earthing Provision which connected to																				
		NOTE:- MCCB's wherever specified upto 250A shall be Thermal Magnetic & Above 250A will be Microprocessor based inbuilt protections																				
		INCOMER : 125 AMP FP MCCB																				
		3 Nos. Phase Indication light (lamp) with MCBs protection																				
		Multi functional meters (VAF) with suitable CTS and protection MCBS 1 set																				
		BUS BAR : 160 AMP, 500 Volts, 3 phase 50 HZ 4P high conductivity electrolytic Aluminium bus bar of suitable length, insulated by heat shrinkable sleeves. The current density of bus bar shall be minimum 0.6 sq mm / amp																				
		The Maximum allowable temperature for the Bus bar to be restricted to 90 deg C. The temperature rise should be restricted to 45 deg C above ambient temperature																				
		OUT GOINGS :																				
		1 No 63 AMP 4P MCCB (GROUND FLOOR LIGHT + POWER DB 1)																				
		1 No 63 AMP 4P MCCB (GROUND FLOOR LIGHT + POWER DB 2)																				
		1 No 63 AMP 4P MCCB (GROUND FLOOR LIGHT + POWER DB 3)																				
		1 No 63 AMP 4P MCCB (FIRST FLOOR LIGHT + POWER DB 1)																				
		1 No 63 AMP 4P MCCB (FIRST FLOOR LIGHT + POWER DB 2)																				
		1 No 63 AMP 4P MCCB (FIRST FLOOR LIGHT + POWER DB 3)																				
		1 No 63 AMP 4P MCCB (SECOND FLOOR LIGHT + POWER DB 1)																				
		1 No 63 AMP 4P MCCB (SECOND FLOOR LIGHT + POWER DB 2)																				
		1 No 63 AMP 4P MCCB (SECOND FLOOR LIGHT + POWER DB 3)																				
		1 No 63 AMP 4P MCCB (WARDEN BLOCK 1 DB)																				
		2 Nos. 63 AMP 4P MCCB SPARE	set			1														1.00	97919.00	97,919.00
		complete panel as above and complete																				
33.07	MR 10	**TYPE -II & III STAFF QTRS. DISTRIBUTION BOARD**																				
		Design, manufacture, supply, installation, testing and commissioning of cubicle type panel fabricated out of CRCA sheet steel , floor mounted totally enclosed switchbaord suitable for use of 415 volts , 3 phase, 50 HZ complete with aluminium bus bar and all accessories including supply and fixing of following incoming and outgoing switchgears, Panel Should Have Double Earthing Provision which connected to																				
		NOTE:- MCCB's wherever specified upto 250A shall be Thermal Magnetic & Above 250A will be Microprocessor based inbuilt protections																				
		INCOMER : 125 AMP FP MCCB																				
		3 Nos. Phase Indication light (lamp) with MCBs protection. Multi functional meters (VAF) with suitable CTS and protection MCBS 1 set																				

S. No.	DSR-2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (8+7 =15 Nos.) plus 1	7 Type-II Quarters (10 Nos.) in Single Block	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	11 Site Levelling	12 Retaining Wall	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
		BUS BAR : 160 AMP, 500 Volts, 3 phase 50 HZ 4P high conductivity electrolytic Aluminium bus bar of suitable length, insulated by heat shrinkable sleeves. The current density of bus bar shall be minimum 0.6 sq mm / amp The Maximum allowable temperature for the Bus bar to be restricted to 90 deg C. The temperature rise should be restricted to 45 deg C above ambient temperature.							2	1										3.00	46763.00	1,40,289.00
		OUT GOINGS :																				
		12 Nos 63 AMP DP MCB (For each Qtr.DBs and Spare.)																				
		complete panel as above and complete																				
33.08	MR 11	**EXTERNAL LIGHT FEEDER PILLAR**																				
		Design, Manufacture, Supply, Installation, Testing and Commissioning of Panel Fabricated out of 16 SWG CRCA sheet steel, IP 54, wall / floor mounting type with rain canopy The sheet steel shall undergo minimum 7 tank treatment followed by finishing powder coating of min 60 micron thickness. the board includes 415 /240 V electrolitic Aluminium Bus Bar, removable gland plates, cable glands, including connection with outgoing feeders complete in all respect, Panel Should Have Double Earthing Provision Which Connected to the Nearest Earth Grid.																				
		INCOMER:																				
		1 no. 100A, 25KA 4P MCCB with Thermal Magnetic based releases, ON indication, + 3 Nos 63A DP MCB For each Phase.with 3 Nos Astronomical Weekly programmable time switch (SST- 1min) ON Phase for automaitc switching of landscape light fixtures at sun set and sun rise or twilight (auto on/ auto off and auto mode) with manual override faiclity with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site.																				
		BUS BAR																				
		TPN Aluminium bus bar with heat Shrink Sleeve																				
		OUTGOING																				
		18 nos 16A DP MCB (For Compound Group Light + Spare)																				
		4 Nos 16KA 40A FP MCCB (Spare)																				
		1 nos 40A FP MCCB (BORE WELL STAND BY)																				
		Other items such as																				
		1 Set of control wiring																				
		1 Set of designation plates																				
		All Items complete as above	set															1.00	1.00	2.00	86284.00	1,72,568.00
		Total of sub-head (33.0) (Non DSR)																				**13,52,480.00**
34		**Supply Of L.T. Cable:**																				
		Supplying of Following Sizes of 1.1 kV Grade Multicore Aluminium Conductor XLPE Power Cable Insulated armoured cable conforming to IS:7098 (Part - I) or as per Relevant IS Code complete with all Amendments etc and should be																				
	MR 11	3.5 C X 150 Sq.mm Al. XLPE arm.	Metre									970.00								970.00	1192.00	11,56,240.00
	MR 12	3.5 C X 120 Sq.mm Al. XLPE arm.	Metre									415.00								415.00	1015.00	4,21,225.00
	MR 13	3.5 C X 95 Sq.mm Al. XLPE arm.	Metre									120.00								120.00	827.00	99,240.00
	MR 14	3.5 C X 70 Sq.mm Al. XLPE arm.	Metre									250.00								250.00	661.00	1,65,250.00
	MR 15	3.5 C X 50 Sq.mm Al. XLPE arm.	Metre									200.00								200.00	489.00	97,800.00
	MR 16	3.5 C X 35 Sq.mm Al. XLPE arm.	Metre									120.00								120.00	365.00	43,800.00
	MR 17	3.5 C X 25 Sq.mm Al. XLPE arm.	Metre									1405.00								1405.00	296.00	4,15,880.00
	DSR 7	**LT Cable Laying**																				
34.01	DSR 7.1	Laying of One Number PVC Insulated And PVC Sheathed / XLPE Power Cable of 1.1 kV Grade of Following Size Direct in Ground Including Excavation, Sand Cushioning, Protective Covering and Refilling the Trench etc as required																				
	DSR7.1.1	Upto 35 sq. mm	Metre									610.00								610.00	387.00	2,36,070.00
	DSR 7.1.2	Above 35 sq. mm and upto 95 sq. mm	Metre									228.00								228.00	405.00	92,340.00
	DSR 7.1.3	Above 95 sq. mm and upto 185 sq. mm	Metre									554.00								554.00	422.00	2,33,788.00
34.02	DSR 7.2	Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the																				
	DSR 7.2.2	Above 35 sq. mm and upto 95 sq. mm	Metre									200.00								200.00	286.00	57,200.00
34.03	DSR 7.3	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation and refilling the trench etc as required. but excluding																				
	DSR 7.3.1	Upto 35 sq. mm	Metre									350.00								350.00	200.00	70,000.00
	DSR7.3.2	Above 35 sq. mm and upto 95 sq. mm	Metre									85.00								85.00	217.00	18,445.00
34.04	DSR 7.5	Laying of one number PVC insulated & PVC sheathed/ XLPE Power cable of 1.1 KV grade of following size in the existing RCC/HUME/METAL pipe as required																				
	DSR 7.3.1	Upto 35 sq. mm	Metre									300.00								300.00	37.00	11,100.00
	DSR 7.5.2	Above 35 sq. mm and upto 95 sq. mm	Metre									40.00								40.00	57.00	2,280.00
	DSR 7.5.3	Above 95 sq. mm and upto 185 sq. mm	Metre									500.00								500.00	77.00	38,500.00
34.05	DSR 7.7	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																				
	DSR 7.7.1	Upto 35 sq. mm (clamped with 1mm thick saddle	Metre									265.00								265.00	55.00	14,575.00
	DSR 7.7.3	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	Metre									17.00								17.00	130.00	2,210.00
	DSR 7.7.3	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	Metre									331.00								331.00	153.00	50,643.00
	DSR 9	**LT CABLE JOINTING & END TERMINATION**																				

S. No.	DSR-2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (8+7 =15 Nos.) plus 1	7 Type-II Quarters (10 Nos.) in Single Block	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	11 Site Levelling	12 Retaining Wall	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
34.06	DSR 9.1	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																				
	DSR 9.1.20	3½ X 25 sq. mm (28mm)	Each									2								2.00	313.00	626.00
	DSR 9.1.21	3½ X 35 sq. mm (32mm)	Each				2					4								6.00	369.00	2,214.00
	DSR 9.1.22	3½ X 50 sq. mm (35mm)	Each									2								2.00	413.00	826.00
	DSR 9.1.23	3½ X 70 sq. mm (38mm)	Each							2		8								10.00	468.00	4,680.00
	DSR 9.1.24	3½ X 95 sq. mm (45mm)	Each									2								2.00	588.00	1,176.00
	DSR 9.1.25	3½ X 120 sq. mm (45mm)	Each									2								2.00	613.00	1,226.00
	DSR 9.1.26	3½ X 150 sq. mm (50mm)	Each									6								6.00	697.00	4,182.00
		Total of sub-head (34.0) (Non DSR)																				**23,99,435.00**
		Total of sub-head (34.0) (DSR)																				**8,42,081.00**
35.0		**HT Cable And Accessories**																				
35.01	MR 18	**Supply of H.T. Cable**																				
		Supply & Testing of following 11 KV(UE) grade multicore Aluminium conductor XLPE insulated cable, insulation screening with extruded semi conducting compound in combination with copper tape armoured cores laid up, inner sheath of PVC tape, galvanised steel flat strip armoured and overall PVC sheathed cable conforming to IS: 7098 (Part - II) and complete with all latest amendments etc.																				
		3 C x 120 Sq. mm 11 KV (UE)	Metre									75								75.00	1210.00	90,750.00
35.02	DSR 8	**H.T. Cable Laying-DSR Item**																				
	DSR 8.1	H V CABLE LAYING																				
	DSR 8.1.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the																				
	DSR 8.1.2	Upto 120 sq. mm	Metre									75								75.00	525.00	39,375.00
	DSR 10.1	**H.T Termination: DSR Item**																				
35.03	DSR 10.1	Supply and making Indoor cable end jointing with cast resin compund, including lugs and other jointing materials for following size of 3 core, XLPE aluminium conductor cable of 11KV (UE) grade as																				
	10.1.1	3 C x 120 Sq.mm (11KV UE)	Sets									3								3.00	2398.00	7,194.00
35.04	DSR 10.2	Supply and making Outdoor cable end jointing with cast resin compund, including lugs and other jointing materials for following size of 3 core, XLPE aluminium conductor cable of 11KV (UE)grade as																				
	10.2.2	3 C x 120 Sq.mm (11KV UE)	Sets									1								1.00	5143.00	5,143.00
		Total of sub-head (35.0) (Non DSR)																				**90,750.00**
		Total of sub-head (35.0) (DSR)																				**51,712.00**
36.0	DSR 2	**Miscellaneous Items - DSR**																				
36.01	2.21	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as	Nos.									12.00								12.00	269.00	3,228.00
36.02	2.22	Providing and fixing H.T. danger notice plate of 250 mm X 200 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single Red colour on front side as	Nos.									2.00								2.00	292.00	584.00
36.03	7.90	Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm X 60 cm at the bottom and 50 cm X 50 cm at the top with a thickness of 10cm including inscription	Each									5.00								5.00	585.00	2,925.00
36.04	7.10	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground	Each									5.00								5.00	508.00	2,540.00
		Miscellaneous Items - MR Items																				
36.05	MR 19	SITC of **shock treatment chart** (prescribed under I.E.rules) duly framed with glass and supported from back with hard board with supply of all material labour T & P etc for proper completion of work.	Nos.									2.00								2.00	455.00	910.00
36.06	MR 20	SITC of First aid box as approved by Indian red cross conforming to IS : 2217	Nos.									2.00								2.00	334.00	668.00
36.07	MR 21	SITC of Fire Bucket stand made of M S angle suitable for and with 4 Nos Fire Buckets of 9.5 Ltrs capacity filled with	Set									2.00								2.00	3245.00	6,490.00
36.08	MR 22	SITC of of rubber gloves of 11 KV grade as per IS : 4770.	Set									2.00								2.00	428.00	856.00
36.09	MR 23	Supplying and fixing of high voltage insulation mat of class B having 11 KV dielectric strength, 1000mm width and thickness of 2.5mm ISI approved as required including cutting to required lengths.	Metre									1.00								1.00	3650.00	3,650.00
36.10	MR 24	Supplying and fixing of high voltage insulation mat of class B having 1.1 KV dielectric strength, 1000mm width and thickness of 2.0 mm ISI approved as required including cutting to required lengths.	Metre									3.00								3.00	2475.00	7,425.00
		Total of sub-head (36.0) (DSR)																				**9,277.00**
		Total of sub-head (36.0) (Non DSR)																				**19,999.00**
37.0	DSR 5	**Earthing**																				

S. No.	DSR-2021	Description	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Quantity	Rate (In Rs)	Amount (In Rs)
				School building (G+2)	Hostel Boys G+2	Hostel Girls G+2	Principal Residence	Kitchen & Dining	Type-III Quarters (8+7 =15 Nos.) plus 1	Type-II Quarters (10 Nos.) in Single Block	Security Cabin & Entrance Gate	Misc. Building (ESS Building)	Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	Site Levelling	Retaining Wall	Sports	Septic Tank & Soak Pit	Road	Boundary Wall			
37.01	5.4	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking	Set	4					4	2		14								28.00	7472.00	2,09,216.00
37.02	5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing	Set									4.00								4.00	13838.00	55,352.00
	5.2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/	SET				2													2.00	6855.00	13,710.00
37.03	5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Metre	55					30	30		100								265.00	244.00	64,660.00
37.04	5.18	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	Metre	60			10					40								180.00	42.00	7,560.00
37.05	5.14	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	Metre									40								40.00	1162.00	46,480.00
	5.12	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	Metre				20													20.00	287.00	5,740.00
		Total of sub-head (37.0) (DSR)																				**4,02,718.00**
38.0	DSR 11	**Pole Erection**																				
38.01	11.3	Erection of metallic pole of following length in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.																				
	11.3.1	Above 4.5 metre and upto 6.5 metre	Each															20.00	29.00	49.00	5121.00	2,50,929.00
38.02	11.6	Supplying and embedding following dia G.I. pipe (medium class) in pole collar/ foundation (during casting) for cable entry including bending the pipe to the required shape , Hole Seeling to be done complete as required.																				
	11.6.1	32 mm dia	Metre															205.00	105.00	310.00	525.00	1,62,750.00
		Total of sub-head (38.0) (DSR)																				**4,13,679.00**
39.0		**External Lighting System**																				
39.01	MR 26	Supply , Installation, Testing & Commissioning of Integrated Post Top Lantern With 45W LED Lamp including suitable size dia G.I.Pipe Pole i/c connection with 3 x 2.5 sq.mm single core PVC insulated copper conductor cable from junction box to fixture as required.	Nos.								2.00									2.00	4520.00	9,040.00
39.02	MR 27	Supply , Installation, Testing & Commissioning of 60 W LED street light fitting complete with all associated as per manufacturer design i/c connection with 3x2.5sq.mm single core PVC insulated copper conductor cable from junction box to fixture as required	Nos.															14.00	20.00	34.00	3309.00	1,12,506.00
39.03	MR 28	**Building Outer Light (60W LED) :-** Supply, fitting, fixing and testing of building outer lighting luminaire aerodynamically shaped single piece pressure die-cast Aluminum luminaire with high power LEDs as light source and electronic driver (IP66), along with **60W LED Lamp** as Energy saving as per drawing prescribed reflector and heat resistant toughened flat glass cover, with 5ft long 40mm dia G.I. pipe with 3 Nos. of iron clamps , anchor nut bolts with double washers as per direction of E/I or consultant as per drawing prescribed	Each	4	2	2	1	3	4	2										18.00	5030.00	90,540.00
39.04	MR 29	Supply, Installation, Testing and Commissioning of 200x160x98 (KVPC) Polycarbonate thermoplastics enclosure - junction box with I.P - 65 Protection with Terminals & cable hinged cover of approved design complete having gasket of internally embedded & made of polyuetherene & should be weather proof, rust proof, dust proof, water proof - box shall be tested as per IEC - 60670-2/60670-22. the box shall have self threaded holes & provision for mounting din rail. with 2 Nos cable gland including supplying & fixing crimping 2 nos lugs & 1 nos 32A connector 6 way for looping the incoming & outgoing cables and	Nos.	3	2	4		2	3	1		1							20.00	31.00	67.00	1109.00	74,303.00
39.05	MR 30	Supply of Single bracket type GI sewaged tubular pole of 6 Metre Pole (Above Ground) with Top-70 mm, bottom-135 mm, Base Plate 220x220x12 mm, PCD-225 mm, Foundation Bolts-M20X700 - 4 Nos., Single arm Bracket - 1 mtr long, with 48.3 mm OD pipe suitable for LED fitting. The pole shall be provided with suitable base plate arrangement for fixing on pedestal and looping box complete with MCB, brass connectors etc complete as required. The street lighting pole shall be in accordance with IS 2713. (For Road Street Light - 20														4.00		14.00	20.00	38.00	10399.00	3,95,162.00
39.06	MR 31	Supply of Double bracket type GI sewaged tubular pole of 6 Metre Pole (Above Ground) with Top-70 mm, bottom-135 mm, Base Plate 220x220x12 mm, PCD-225 mm, Foundation Bolts-M20X700 - 4 Nos., Double arm Bracket - 1 mtr long, with 48.3 mm OD pipe suitable for LED fitting. The pole shall be provided with suitable base plate arrangement for fixing on pedestal and looping box complete with MCB, brass connectors etc complete as required. The street lighting pole shall be in accordance with IS														2.00				2.00	10929.00	21,858.00

S. No.	DSR-2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (8+7 =15 Nos.) plus 1	7 Type-II Quarters (10 Nos.) in Single Block	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	11 Site Levelling	12 Retaining Wall	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
39.07	MR 32	(A) SITC of Hybrid All In One Integrated Solar LED Street Light fitting rated for 40W output with integrated solar laminate of 80 Wp (or more) based on Mono crystalline cell technology, along with battery of rating 12.8V 30Ah (or more) based on Lithium Ferro Phosphate Chemistry (LiFePO4), with a light output of greater than 6000 Lumens (>6000), LEDs with a life greater than >50000Hrs and Lumen efficacy greater than 150Lm/W , with an autonomy of 2 days (24 hrs.)or more with dimming, INBUILT PROTECTIONS FOR LONGER RELIABILITY - Over Charge Protection, Deep Discharge Protection, Battery Reverse Polarity Protection, Load Short Circuit Protection, Load Open Circuit Protection, Reverse Polarity Protection for Panel and Over Temperature Protection. Surge Protection for Hybrid Models. The housing of the street light should be made of Extruded Aluminium / Die Cast Aluminium, equipped with battery charge controller of efficiency greater than 92%, hybrid controller efficiency of greater than 85% and motion detection sensor with atleast 12mtr range. The light fitting shall be complete with all accessories in all respect as per manufacturer design. The light should also be tested for its performance (LM 79), Ingress protection(IP 65 or more), Impact resistance (IK08 or more) from 3rd party NABL Labs / TUV / UL / MNRE Authorised labs. (Note:- Inhouse labs approved by NABL will not be acceptable, only 3rd part labs shall be considered . **The lighting**														2.00		6.00	9.00	17.00	42800.00	7,27,600.00
		(B) The following certificates are mandatory at the time of supply and after installation as and where applicable :- 1. EN50530 – MPPT Efficiency 2. IEC61547 3. IEC61000-3-2 – EMC 4. IEC 60598 – Part 1 – General requirement 5. IEC 62109 6. LM 79 REPORT 7. IK 08 8. IP 65 The Executant must submit the TDS, LM 79 report , IK 08 & IP 65 report of third party NABL lab , LM80 report of chip manufacturer in the department for obtaining the approval from the authority prior to start of work/ procurement of Solar street lights. Reports of inhouse lighting company Lab having NABL accrediation will not be acceptable. Test reports like EN50530 – MPPT Efficiency , IEC61547 ,IEC61000-3-2 – EMC , IEC 60598 – Part 1 – General requirement , IEC 62109 obtained from Third party NABL Lab/ TUV/UL/MNRE Lab's test report are required to be submitted by the executant along with manufacturer's warranty certificate in the name of concerned department for providing 5 years complete system warranty & providing immediate after sales service within the																				-
39.08	MR 33	Supplying of Following sizes 1100 volt grade XLPE insulated PVC sheathed aluminium conductor armoured cables as per specification in existing laid in ground including cost of digging upto required depth, 150 mm sand all around the cable, brick protection and back filling, clamped to wall with suitable clamps including saddles fixing bolts,																				
		a) 2x6 sqmm	Metre	250	200	200		150		150	150	160						750.00	1860.00	3870.00	85.00	3,28,950.00
		Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of size up to 35 sq. mm																				
39.09	7.3.1	(a) direct in ground including excavation and refilling the trench etc. as required, but excluding sand cushioning and protective covering	Metre	105	75	75		50		50	120	80						370.00	1400.00	2325.00	200.00	4,65,000.00
	7.7.1	(b) On Surface	Metre	115	50	50		50		50	25	75						360.00	100.00	875.00	55.00	48,125.00
39.10	7.5.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing RCC/ HUME/ METAL pipe as required																				
		Upto 35 sq. mm	Metre	30	75	75		50		50	5	5						20.00	360.00	670.00	37.00	24,790.00
39.11		Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required.																				-
	14.15.1	63 mm dia (OD-63 mm & ID-51 mm nominal)	Metre	10	10	10		10		10	10	10						50	100	220.00	127	27,940.00
		Total of sub-head (39.0) (DSR)																				**5,65,855.00**
		Total of sub-head (39.0) (Non DSR)																				**17,59,959.00**
40.0		**Uninterrupted Power Supply (UPS) - 10 kVA**																				
40.01	MR 34	Supply of **10 kVA Online UPS**, IGBT UPS (Transformer-less Design)																				
		Supply of SMF Batteries (12Volt VRLA, 26 Ah, 40 Numbers or as per standard Nos to provide **30 Minutes Backup** in total for 10 kVA UPS at 0.8PF and EOV=1.7V																				
		Fully rated Inbuilt static switch at the inverter output and 100% rated Inbuilt static switch at the static bypass line integrated in UPS module																				
		Supply of Local Accessories (like Cabling Between UPS and the Battery onsidering Cable Routing , Battery Interlinks, Battery Rack etc)																				
		Backfeed protection at Mains & Bypass (Inbuilt / External).																				
		Installation and Commissioning of 10 kVA UPS, Battery and Accessories.	set	1																1.00	218204.00	2,18,204.00

S. No.	DSR-2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (8+7 =15 Nos.) plus 1	7 Type-II Quarters (10 Nos.) in Single Block	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	11 Site Levelling	12 Retaining Wall	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
40.02	MR 35	Supply , installation , testing and commissioning 63A FP MCB of 10kA breaking Capacity in metal sheet enclosure with ON/OFF, TYB Indication lamps for Incoming of UPS Complete in All Respect as Drawing &	set	2																2.00	3459.00	6,918.00
		Total of sub-head (40.0) (Non DSR)																				**2,25,122.00**
41.0	MR 36	**Lightening Arrester System For Transformer**																				
		Supply, Installation, Testing & Commissioning of Lightening Arrester HT-12 kV expulsion type complete with all Fitting transission class discharge capacity 10kA complete all as as specified	Each									3								3.00	4007.00	12,021.00
		Total of sub-head (41.0) (Non DSR)																				**12,021.00**
42.0		**Pumps (Non Scheduled Items)**																				
42.01	MR	**Borewell Submersible Pump**	Set										2							2.00	54871.00	1,09,742.00
		Supplying & Installation of suitable borewell submersible pump set coupled with 6" motor and complete with lowering in existing borewell with the help of chain pulley block including supplying and fixing motor starter suitable for the selected pump complete as required.(Note : The suction/delievery pipe lines are not included in this item)																				
		Flow Rate : 350 to 400 LPM																				
		min. Head : 60 M																				
		Min. Motor HP : 7.5 H.P.																				
42.02	MR	Supplying and Fixing of PVC covered 6 mm dia flexible steel rope for handling/protecting the submersible Pump set including U-lock arrangement etc. complete as required.	Metre										300							300.00	56.00	16,800.00
42.03	MR	Supplying and Fixing of suitable size of MS clamp set suitable for holding submersible pump & 40 mm dia pipe assembly lowered in bore well including suitable drilled hole and nut bolts etc. complete as required.	Each										4							4.00	731.00	2,924.00
42.04	MR	Supplying and Fixing of following size of PVC insulated PVC sheathed Copper conductor flat submersible cable including fixing the cable with nylon tie along with GI pipes in existing borewell, connection with submersible pump cable with the help of water proof jointing kit provided with the																				
		(a) 3 x 2.5 sqmm	Metre										290							290.00	115.00	33,350.00
		S/Fixing of 8 " dia MS cover with locking arrangement i/c drilling hole and s/f nut bolts etc. complete as reqd.											2.00							2.00	1040.00	2,080.00
42.05	MR	**Openwell Submersible Monobloc Pump Set**	Set										2							2.00	51240.00	1,02,480.00
		S.I.T.C. of 7.5/5.5 (H.P./Kw) Openwell Submersible Monobloc Pump Set comprising of Electrical Driven inline pumping with all accessories as per manufacturer's design. such as C.I. Base, S.S /bronze impeller, shaft, mechanical seal, S.S. Shaft directly coupled to motor suitable for operation on 400/440 volts, 3 phase 50c/s A.C.Supply complete in the existing G.I.Pipelines fittingsi/c s/fixing motor starter suitable for this pump set i/c connections testing, commissing etc as reqd. **(Note : The suction/delievery pipe lines are not included in this item)**																				
		Flow Rate : 4.5 to 5.0 LPS																				
		Min. Head : 50 M																				
		Min. Motor HP : 7.5 H.P. (Each)																				
		Total of sub-head (42.0) (Non DSR)																				**2,67,376.00**
43		**CCTV SYSTEM**																				
43.01	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required																				
	1.53.1	1 run of cable	Mtr.	480	300	300		200			50	100								1430.00	57.00	81,510.00
43.02	1.21	Supply and fixing of following sizes of 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 :																				
	1.21.2	25 mm	Mtr.	200	150	150		95			45	50								690.00	145.00	1,00,050.00
43.03	MR36	1/2.8" Progressive Scan CMOS, PAL:1920 * 1080, 0.1 Lux/ F1.2 (0Lux, IR ON), 10~15 Meters (With Min. 24 units IR LED), 2 MP Fixed IR DOME CAMERA With Options Of 2.8mm , 4mm , 6mm Lens , IP66 , POE with installation. ***(For Substation-2, Kitchen and Dining-6)***	Each		3	3		4				2									12.00	6488.00	77,856.00
43.04	MR37	1/2.8" Progressive Scan CMOS, PAL:1920 * 1080, 0.1 Lux/ F1.2 (0Lux, IR ON), 10~15 Meters (With Min. 24 units IR LED), 2 MP Fixed IR Bullet CAMERA With Options Of 2.8mm , 4mm , 6mm Lens , IP66 , POE with installation. ***(For Main Gate-2, School-7, Boys Hostel-5, Girls Hostel-5, Kitchen-2, Dining-1)***	Each	7	4	4		5				2									22.00	6488.00	1,42,736.00

S. No.	DSR-2021	Description	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Quantity	Rate (In Rs)	Amount (In Rs)
				School building (G+2)	Hostel Boys G+2	Hostel Girls G+2	Principal Residence	Kitchen & Dining	Type-III Quarters (8+7 =15 Nos.) plus 1	Type-II Quarters (10 Nos.) in Single Block	Security Cabin & Entrance Gate	Misc. Building (ESS Building)	Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	Site Levelling	Retaining Wall	Sports	Septic Tank & Soak Pit	Road	Boundary Wall			
43.05	MR38	Supplying, installation, fixing, testing and commissioning of 16 ch Linux, H. 264 / H.265 NVR with Minimum 1080p / UXGA / 720p / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF rec. resolutions, 4 HDD slot supports upto 4 TB Each, RS 485 x 1 & USB2.0 x1, HDMI ,Local And Remote Access Over Internet In complete in all respect with installation (Make: - CP PLUS , Dahua ,Hikvision or equivalent) ***(For School, Main Gate, Substation-1, Kitchen & Dining-1, Bosy hostel-1, Girls hostel-1)***	Each	1	1	1		1				1									5.00	28413.00	1,42,065.00
43.06	MR39	4 TB Surveillance Sata HDD (WD Purple , Seagate Surveillance or Equivalant)	Each	1				1												2.00	10526.00	21,052.00
43.07	MR40	16 Port POE Switch (Cisco , Netgear , Dlink or Equivalant)	Each	1				1												2.00	17716.00	35,432.00
43.08	MR41	Supply, installation, testing and commissioning of Independent 1 kVA UPS system with 230V single phase input and 230V Single phase output with all required accessories & battery bank for 30 mins back up with covered SMF battery and battery rack for all new required loads covered as required, including connections as per specifications etc. complete as required. ***(for Server and CCTV - Boyshostel-1, Girls hostel-***	Each	1	1	1															3.00	28899.00	86,697.00
	MR42	S.I.T.C.32" Color flat panel LED Monitor,Full HD Professional Series 1920 x 1080 resolution, inputs. 100-230VAC/50 Hz	Each	1	1	1														3.00	21743.00	65,229.00
		Total of sub-head (43.0) (DSR)																				**1,81,560.00**
		Total of sub-head (43.0) (Non DSR)																				**5,71,067.00**
44		**LIGHTNING CONDUCTOR**																				
44.01	6.2	Providing and fixing of lightning conductor finial, made of 25mm dia 300mm long, G.I tube, having single prong at top with 85mm dia 6mm thick G.I base plate including holes etc. complete as required	Each	6	6	6		6	4	4		4								36.00	518.00	18,648.00
44.02	6.7	Providing and fixing G.I tape 20 mm x 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (for horizontal run)	Mtrs.	430	205	205		150	100	100		60								1250.00	126.00	1,57,500.00
44.03	6.8	Providing and fixing G.I tape 20 mm x 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (for vertical run)	Mtrs.	50	60	60		30	30	30		15								275.00	197.00	54,175.00
44.04	6.4	Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required	Each	30	14	14		10	6	6		6								86.00	113.00	9,718.00
44.05	6.12	Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required	Each	4	2	2		2	2	2		2								16.00	121.00	1,936.00
44.06	5.4	Earthing with G.I. earth plate 600mm x 600mm x 6mm thick including accessories, and providing masonary enclosure with cover plate having locking arrangement and watering pipe of 2.7Mtr long etc. with charcoal/ coke and salt as required.	Set.	4	2	2		2	2	2		2								16.00	7472.00	1,19,552.00
		Total of sub-head (44.0) (DSR)																				**3.61.529.00**
45.00		**D.G.Set and associated works**																				
45.01	MR 1	**D.G.Set 62.5 KVA**																				
		Providing, Installing, Testing and Commissionng of 'Silent Type' Diesel Generating set alongwith having Prime Power Rating of 62.5 KVA, 415 volts at 1500 RPM, 0.8 lagging power factor at 415 V suitable for 50 Hz, 3 phase system & for 0.85 Load Factor and consisting of the followings																				
	(a)	Diesel Engine:																				
		Diesel engine 4 stroke water cooled, electric start, of suitable BHP at 1500 RPM suitable for above output of alternator at 40 Degree C, 50% RH & at 1000 Meter MSL and conforming to BS 5514, BS 649, IS 10000, capable of taking 10% over loading for one hour after 12 hours of continuous operation. The engine will be fitted complete with all the required accessories																				
	(b)	Engine mounted Instrument Panel fitted with and having digital display for following:																				
		(i) Start-stop switch with key																				
		(ii) Water temperature indication																				
		(iii) Lubrication oil pressure indication																				
		(iv) Lubrication oil temperature indication																				
		(v) Battery charging indication																				
		(vi) RPM indication																				
		(vii) Over speed indication																				
		(viii) Low lub. Oil trip indication																				
		(ix) Engine Hours indication																				
	(c)	Alternator :																				
		Synchronous alternator rated at 62.5 KVA, 415 volts at 1500 RPM, 3 phase 50 Hz, AC supply with 0.8 lagging power factor at 40 Degree C, 50% RH & at 1000 Meter MSL. The alternator shall be having SPDP enclosure, brushless, continuous duty, self-excited and self-regulated through AVR conforming to IS: 4722/BS 2613 suitable for tropical conditions and with class F/H insulation																				
	(d)	Base Frame & Foundation:																				

S. No.	DSR-2021	Description	Unit	1 School building (G+2)	2 Hostel Boys G+2	3 Hostel Girls G+2	4 Principal Residence	5 Kitchen & Dining	6 Type-III Quarters (8+7 =15 Nos.) plus 1	7 Type-II Quarters (10 Nos.) in Single Block	8 Security Cabin & Entrance Gate	9 Misc. Building (ESS Building)	10 Underground Sump & Pump Room (PH-I&II)(50,000+50,000LTRS.)	11 Site Levelling	12 Retaining Wall	13 Sports	14 Septic Tank & Soak Pit	15 Road	16 Boundary Wall	Quantity	Rate (In Rs)	Amount (In Rs)
		Both the engine and alternator shall be mounted on suitable base frame made of MS channel with necessary reinforcement which shall be installed on suitable cement concrete foundation and vibration isolation arrangement as per recommendations of manufacturer.																			
	(e)	Fuel Tank:																			
		Daily service fuel tank of120 liters capacity fabricated out of 3 mm thick M.S. sheet complete with all standard accessories and fuel piping between fuel tank and diesel engine with MS class 'C' pipes of suitable dia. Complete with valves, level indications & accessories as required as per specifications.																			
	(f)	Exhaust System:																			
		Dry exhaust mainfold with hospital exhaust silencer and catalytic convertor.																			
	(g)	Starting System:																			
		12V/24V DC starting system comprising of starter motors: voltage regulator and arrangement for initial excitation complete with suitable nos. of batteries (25 plates, 180 Amp. Hour capacity lead acid type) as required as per specifications.																			
	(h)	Accoustic and weather proof enclosure with arrangement for fresh air intake for cooling of the engine & alternator, extraction, discharging hot air in to the atmosphere as per specifications.																	1.00	1.00	594200.00	5,94,200.00
45.02	MR 2	**AMF system for 62.5 KVA DG Set Part of DG.**																			
		Fabricating, installing, testing & commissioning of automatic mains failure control including auto by-pass panel, suitable for 62.5 KVA silent type DG set complete with relays, timers, set of CTs for metering & protection and energy analyser to indicate currents, phase and line voltages, frequency, power factor, KWH, KVARH & provision for overload, short circuit, restricted earth fault, under frequency, control cabling from AMF panel to diesel engine and elsewhere if required, all complete and inter locking																			
	(a)	(i) 1 No. 125 415V, 4P MCCB of 35kA.																			
		(ii) 2 Nos. 125A, 415V 4P Contactor																			
	(b)	Auto/Manual/Test/Off selector switch																			
	(c)	2 Nos over voltage relay, 2 Nos reverse power relay and 2 Nos under voltage relay.																			
	(d)	3 Sets of current transformers 15 P 10 accuracy for protection and 15 VA class-I for metering																			
	(e)	Energy analyser unit to indicate current voltage frequency power factor and KWH																			
	(f)	Indicating lamps for load on mains and load on set																			
	(g)	Fuse for instruments																			
	(h)	Battery charger, complete with transformer/ rectifier, D.C. voltmeter and ammeter, selector switch for trickle, off and boost and current adjustment.																			
	(i)	Main supply failure monitor																			
	(j)	Supply failure timer																			
	(k)	Restoration timer																			
	(l)	Control unit with three impulse automatic engine start/ston and failure to start lockout.																			
	(m)	Impulse counter with locking and reset facility.																			
	(n)	ON/OFF/Control circuit switch with indicator																			
	(o)	Audio/Video annunciation for																			
		(i) High water temperature																			
		(ii) Low lubricating oil pressure																			
		(iii) Engine over sreed																			
		(iv) Engine fails to start																			
		(v) Full load/maximum load warning																	1.00	1.00	129500.00	1,29,500.00
45.03	MR 3	Supplying and fixing exhaust gas piping of 75mm dia. welded black MS, B Class pipe conforming to IS:3589 cut to required lengths and installed with necessary bends, supports and clamps, anti-vibration mountings, insulation of exhaust system with mineral wool/Rockwool, 50 mm thick wiremesh & aluminum cladding etc., as required as per specifications.																	4.00	4.00	1280.00	5,120.00
		Total of sub-head (45.0) (Non DSR)																			**7,28,820.00**

	Type	Location	School				Boys Hostel G+2)v w/o kitchen				Girls Hostel (G+2) w/o kitchen				Warden			Kitchen			Principal Quarter			Type-III quarters+ Guest House			Type-II quarters			
			GF	FF	SF	Total	GF	FF	SF	Total	GF	FF	SF	Total	GF	FF	Total	GF	FF	Total	GF	FF	Total	GF	FF	Total	GF	FF	SF	Total
	Urinal partition (75x50cm size)	Boys toilet	3	3	3	9	4	4	4	12			0	0			0			0	0	0	0			0				0
	Total in sqm					**3.38**				**4.50**				**0**			**0**			**0**			**0**							
	Stainless steel Sink													0	1		1			0	1		1	8	8	16	4	4	2	10
	water cooler & Pantry/kitchen		3	2	2	7	1	2	2	5	1	2	2	5			0	2		2			0							0
	Total					**7**	**1**	**2**	**2**	**5**				**5**			**1**			**2**			**1**			**16**				**10**
	Laboratory sink													0																
	Chemistry/Physics & Biology Lab with store		4		8	12				0				0			0			0			0							0
	Total					**12**				**0**				**0**			**0**			**0**			**0**			**0**				**0**
	Eurpoean WC	Boys toilet	1	1	1	3	2	2	2	6				0	1		1			0	3		3	8	8	16	4	4	2	10
		Girls toilet	1	1	1	3				0	2	2	2	6			0			0			0			0				0
		PH toilet	1	1	1	3	1			1	1			1			0			0			0			0				0
		Principal Toil	1			1				0				0			0			0			0			0				0
		VP toilet	1			1				0				0			0			0			0			0				0
		Staff toilet/Toilet near gas bank	2			2				0				0			0			0			0			0				0
	Total					**13**				**7**			**2**	**7**			**1**						**3**			**16**				**10**
	Indian type WC pan													0									0			0	4	4	2	10
	boys + girls toilet		5	5	5	15	10	10	10	30	12	12	12	36	1		1	3		3				8	8	16				
	Total					**15**				**30**				**36**			**1**			**3**			**0**			**16**				**10**
	SS Jet for European WC	same as European WC				13				7					1		1			0	3		3			0	4	4	2	10
	Total					**13**				**7**				**7**			**1**						**3**			**16**				**10**
	PTMT bottle trap	wash basin	13	9	9	31	11	10	10	31	15	14	14	43			0			0	3		3			0				0
	wash basin	sink												0	3		3	3		3			0	24	24	48	12	12	6	30
	Total					**31**				**31**				**43**			**3**			**3**			**3**			**48**				**30**
	Urinal pots									0				0			0									0				0
										0				0			0	1		1						0				0
	Urinal									**0**				**0**			**0**			**1**										
	Single half stall urinal basins with 5 litre white P.V.C. cistern									0				0																
	Total						**0**	**0**	**0**	**0**			**0**																		
	Range of two urinal basins with 5 litre white P.V.C. cistern		2	2	2	6				0				0			0			0			0			0				0
	Total					**6**	**0**	**0**	**0**	**0**			**0**	**0**			**0**														
	three urinal set						2	2	2	6				0			0			0			0			0	2	2		4
	Total									**6**			**0**				**0**													
	PTMT towel ring	Principal Toil	1			1				0				0			0	3		3	3		3	16	16	32	8	8	4	20
		VP toilet	1			1				0				0			0			0			0			0				0
		Staff toilet	2			2				0				0			0			0			0			0				0
		PH toilet	1	1	1	3	1			1	1			1			0			0			0			0				0
		Boys & Girls Toilet				0	6	6	6	18	15	14	14	43	2		2													
	Total					**7**				**19**				**44**			**2**			**3**			**3**			**32**				**20**
	PTMT/CP brass bib cock													0			0													
18.54.3	**Long body**	on Lab sinks	4		8	12								0			0			0			0			0				
		bath rooms					11	10	10	31	15	14	14	43			0			0			0			0				
	water coolers sink		2	2	2	6	1	2	2	5	1	2	2	5			0			0			0			0				
	hand wash									0				0			0	9		9			0							
	court yard utensil wash	Wash area								0				0			0	24		24			0							
	back side utensil wash									0				0			0	4		4			0							
	water coolers									0				0			0			0			0							
	Laboratory sink									0				0	1		1			0	1		1	16	16	32	8	8	4	20
	toilet									0				0	2		2	3		3	3		3	32	32	64	16	16	8	40
	Total					**18**				**36**				**48**			**3**			**40**			**4**			**96**				**60**
18.54.1	**Short body**	Principal Toil	1			1				0				0			0			0	3		3	16	16	32	8	8	4	20
		VP toilet	1			1				0				0			0			0			0			0				0
		Staff toilet/PH Toilet	2			2	1	0	0	1	1		0	1			0			0			0			0				0
		Boys toilet	2	2	2	6	11	10	10	31				0	3		3	3		3			0			0				0
		Girls toilet	3	3	3	9				0	13	12	12	37			0			0			0			0				0
	Total					**19**				**32**				**38**			**3**			**3**			**3**			**32**				**20**
	PTMT/CP brass stop cock concealed	boys toilet	2	2	2	6	11	10	10	31				0			0	3		3	3		3	16	16	32	8	8	4	20
		girls toilet	3	3	3	9				0	13	12	12	37	2		2			0			0			0				0
	Total					**15**				**31**				**37**			**2**						**3**			**32**				**20**
	PTMT/CP brass angle stop cock (for washabsin	Principal Toil	2	0	0	2				0				0			0			0	6		6			0				0
		VP toilet	2	0	0	2				0				0			0			0			0			0				0
		Staff toilet 1 & 2	4	0	0	4				0				0			0			0			0			0				0
		Boys toilet	2	2	2	6	11	10	10	31				0	2		2			0			0			0				0
		Girls toilet	3	3	3	9				0	13	12	12	37			0			0			0			0				0
		water coolers	2	2	2	6	1	2	2	5	1	2	2	5			0			0			0			0				0
		wash basin	4	4	4	12	11	10	10	31	17	16	16	49			0			0			0	16	16	32	8	8	4	20
		urinals	2	2	2	6	2	2	2	6				0			0			0			0			0				0
		WC/EWC	2	2	2	6				0				0				3		3										

		urinal								0				0				1		1											
		wash basin								0				0				12		12											
		water coolers								0				0				2		2											
		wash area								0				0				15		15											
		front utensil wash area								0				0				24		24											
		back utensil wash area								0				0				4		4											
		Toilets								0				0											16	16	32	8	8	4	20
		geyser point (in bathroom)					2	2	2	6	2	2	2	6											16	16	32	8	8	4	20
	Total					**53**				**79**				**97**			**2**			**61**			**6**			**96**				**60**
	Wash basin Flat back	Principal Toil	1			1				0				0			0			0	3		3			0				0
		VP toilet	1			1				0				0			0			0			0	16	16	32	8	8	4	20
		Staff toilet	2			2				0				0	2		2			0			0			0				0
		PH toilet	1	1	1	3	1			1	1			1			0			0			0			0				0
		toilets (boys+girls)				0	10	10	10	30	12	12	12	36			0	3		3			0			0				0
	Total					**7**				**31**				**37**			**2**			**3**			**3**			**32**				**20**
	Oval shaped wash basin	Boys toilet	4	4	4	8				0				0			0	10		10			0			0				0
		Girls toilet	4	4	4	8				0				0			0			0			0			0				0
	Total					**16**				**0**				**0**			**0**			**10**										
	PVC waste pipe					0				0				0																
	Rectangular wash basins					7	11	10	10	31	15	14	14	43	2		2	3		3	4		4	16	16	32	8	8	4	20
	Oval shaped wash basin					16				0				0			0	10		10						0				0
	Sink for water cooler		2	2	2	6	1	2	2	5	1	2	2	5	1		1	6		6				8	8	16	4	4	2	10
	Urinals		2	2	2	6	6	6	6	18				0			0	1		1										0
	water coolers					0				0				0			0			0										0
	Total					**35**				**54**				**48**			**3**			**20**			**4**			**48**				**30**
	Toilet paper holder					13								0																
	same as European WC					0	0	0	0	7				0			1				3		3			16				10
	Total					**13**				**7**				**7**			**1**						**3**			**16**				**10**
	PVC connection pipe					0								0												0				
	Rectangular wash basins					7	11	10	10	31	15	14	14	43	2		2	3		3	3		3	16	16	32	8	8	4	20
	Oval shaped wash basin					16				0				0			0	10		10						0				0
	WC's cistern					28	11	10	10	31	15	14	14	43			0	3		3				16	16	32				0
	Urinals					6	0	0	0	0			0	0			0	1		1						0	8	8	4	20
	Geysers					1	2	2	2	6	2	2	2	6	2		2			0	3		3	16	16	32	8	8	4	20
	Total					**58**				**68**				**92**			**4**			**17**			**6**			**96**				**60**
	PTMT Soap Dish Holder					0								0										16	16	32	8	8	4	20
	Rectangular wash basins		13	9	9	31				0				0	2		2				3		3							
	sink in pantry		1			1				0				0																
	near laboratory sink		4		8	12				0				0																
	wash basins/bathroom					0	11	10	10	31	15	14	14	43				3		3										
	utensil wash areas					0				0				0				24		24			0							
	hand wash area					0				0				0				14		14										
	Total					**44**				**31**				**43**			**2**			**41**			**3**			**32**				**20**
	PTMT liquid soap container													0			0			0	3		3			0				0
	for washbasin in boys + girls toilet					0				0				0																
	for washbasin in PH toilet					0				0				0																
	for washbasin in VP toilet					0				0				0																
	for washbasin in staff toilet					0				0				0																
	for washbasin in Principal toilet					0				0				0																
	Total					**44**				**31**				**43**			**2**			**41**			**3**			**32**				**20**
	PTMT Towel Rail, 600mm long													0			0	3		3	3		3			0				0
	Principal, VP & Staff toilet					0								0																
	Bathroom									0				0																
	PH toilet					0				0				0																
	Wash area									0				0																
	Total					**0**				**0**				**0**			**0**			**3**			**3**			**0**				**0**
	CP shower rose						11	10	10	31				0							3		3	16	16	32	8	8	4	20
										0	15	14	14	43	2		2													
	Total					**0**				**31**				**43**			**2**			**0**			**3**			**32**				**20**
	PTMT Waste Coupling/CP brass pillar cock													0																
														0																
														0																
	Total																													
	U-shaped SS grab bar for PH toilet													0				0		0										
			1	1	1	3	1			1	1			1																
														0																
	Total					**3**				**1**				**1**				**0**		**0**										
	600x450mm Bevelled edge mirror													0													8	8	4	20
	Rectangular wash basins					7	11	10	10	31	15	14	14	43	2		2	3		3	3		3	16	16	32				
	Oval shaped wash basin					16								0																
	Labs		4		8	12								0																
	Total					**35**				**31**				**43**			**2**			**3**			**3**			**32**				**20**
	PTMT grating, circular type													0										24	24	48	12	12	6	30
	100mm nominal dia		9	5	5	19	7	6	6	19	7	6	6	19	3		3	5		5	4		4							
	Total					**19**				**19**				**19**			**3**			**5**			**4**			**48**				**30**
	PTMT grating, circular type													0										24	24	48	12	12	6	30
	125 mm nominal dia with 25 mm waste hole		17	9	9	35	11	10	10	31	15	14	14	43	3		3				4		4							
	Total					**35**	**11**	**10**	**10**	**31**			**14**				**3**						**4**			**48**				**30**
	stainless steel robe plate/pegs (hook) having three pegs (hook) in one strip	bathroom					11	10	10	31	15	14	14	43			2				3		3	16	16	32	8	8	4	20
		wash area								0				0																
		WC								0				0				2		2										

	Total						**11**	**10**	**10**	**31**			**43**			**2**			**2**			**3**			**32**				**20**

Type	Location	School				Boys Hostel				Girls Hostel				Warden		Kitchen		Principal Quarter			Type-III quarters+			Type-II quarters			
		GF	FF	SF	Total	GF	FF	SF	Total	GF	FF	SF	Total	GF	Total	GF	Total	GF		Total	GF	FF	Total	GF	FF	SF	Total
Urinal partition (75x50cm size)	Boys toilet	3	3	3	9	4	4	4	12				0														
Total in sum					**3.00**				**4.5**											**0**							
Stainless steel Sink														1	1	2	2	1		1	8	8	16	4	4	2	10
water cooler		4	4	4	12	4	4	4	12	1	1	1	3							0							
Total					**12**				**12**						**1**		**2**			**1**			**16**				**10**
Laboratory sink																											
Physics Lab					0				0				0														
Biology, Chemistry Lab /Pantry		6		12	18				0				0														
Total					**18**								**0**														
Eurpoean WC	Boys toilet/Bedroom to	1	1	1	3	2	2	2	6	2	2	2	6	1	1			2		2	8	8	16	4	4	2	10
	Girls toilet	1	1	1	3				0				0														
	PH toilet	1	1	1	3	1			1	1			1														
	Principal Toilet	1			1				0				0														
	VP toilet	1			1				0				0														
	Staff toilet	2			2				0																		
Total					**13**				**7**				**7**		**1**					**2**			**16**				**10**
SS Jet for European WC	same as European WC				13				7				7	1	1			2		2	8	8	16	4	4	2	10
Total					**13**				**7**				**7**		**1**					**2**			**16**				**10**
PTMT bottle trap																											
Principal, VP & Staff toilet/toilet	Washbasin	4			4					1			1	2	2			3		3	16	16	32	8	8	4	20
Total					**4**								**1**		**2**					**3**			**32**				**20**
Half stall urinal	Boys Toilet	4	4	4	12	6	6	6	18				0							0							
Total					**12**				**18**				**0**														
PTMT towel ring	Principal Toilet/toilet	1			1								0					3		3	16	16	32	8	8	4	20
	VP toilet	1			1								0														
	Staff toilet	2			2								0														
	PH toilet	1	1	1	3								0														
	wash basin					4	4	4	12	4	4	4	12	2	2	3	3										
	near handwash															6	6										
	near utensil wash															4	4										
Total					**7**				**12**				**12**		**2**		**13**			**3**			**32**				**20**
PTMT /CP brass bib cock																											
Long body	Lab sinks/kitchen sink/Utility	6	0	12	18								0	2	2			2		2							
	bath rooms				0	10	10	10	30	12	12	12	36	2	2			6		6	32	32	64	12	12	6	30
	water coolers	4	4	4	12	2	2	2	4	2	2	2	6														
	hand wash				0								0														
	court yard utensil wash				0								0			18	18										
	back side utensil wash				0								0			4	4										
	toilet/PH toilet/toilet in kitchen court				0	1			1	1			1		0	1	1										
	geyser point (near urinal/WC)				0	2	2	2	6	2	2	2	6			2	2										
	Kitchen/cooking area				0								0			3	3				16	16	32	8	8	4	20
Total					**30**				**41**				**49**		**4**		**28**			**8**			**96**				**50**
short body	Principal Toilet	1			1								0														
	VP toilet	1			1								0														
	Staff toilet	2			2								0														
	Boys toilet	3	4		7	13	12	12	37				0														
	Girls toilet	4	6		10					11	10		21														
	Assembly area				0								0														
	IWC/EWC/PH	1	1	1	3									2	2	3	3	1		1	8	8	16	8	8	4	20
Total					**21**				**37**				**21**		**2**		**3**			**1**			**16**				**20**
PTMT/CP brass ston cock concealed	boys toilet					11	10	10	31				0														
	girls toilet/Toilet									11	10		21	4	4			6		6	32	32	64	12	12	6	30
	toilet in kitchen court															1	1							8	8	4	
													0														20
Total					**0**				**31**				**21**		**4**		**1**			**6**			**64**				**50**
PTMT/CP brass angle ston cock	Principal Toilet	2			2				0				0	0				12		12							
	VP toilet	2			2				0				0	0													
	Staff toilet	2			2				0				0	0													
	Boys toilet IWC cistern	2	2	2	6	11	10	10	31				0	0	0			1		1	8	8	16	4	4	2	10
	Boys toilet EWC Cist	1	1	1	3	1	1	1	3				0	0	0			4		4	16	16	32	8	8	4	20
	Girls toilet	4	4	4	12				0	13	12	12	37														
	water coolers				0				0	1	1	1	3														
	wash basin	8	8	8	24	11	10	10	31	13	12	12	37	2	2	3	3	3		3	16	16	32	8	8	4	20
	urinals	4	4	4	12	6	6	6	18				0	0													
	WC				0								0	0													
	urinal				0								0	0													
	wash basin/handwash				0								0	0		1	1										
	water purifier	2	2	2	6	2	2	2	6				0	0		2	2										
	wash area/utility				0				0					0	1												
	front utensil wash area				0								0	0													
	back utensil wash area				0								0	0													
	Toilets/attached toilet				0								0	2	2	2	2										
	geyser point				0	2	2	2	6				0	0	0	2	2	4		4	16	16	32	8	8	4	20
	geyser point (for kitchen)				0								0	0							16	16	32	8	8	4	20
Total					**78**				**95**				**77**		**5**		**10**			**24**			**112**				**70**
Two in one long body nozzle bibcock	utility													1	1						8	8	16	4	4	2	10
Total					**0**				**0**				**0**		**1**					**0**			**16**				**10**
Flat back wash basin	Principal Toilet	0			0								0														
	VP toilet	0			0								0														
	Staff toilet/toilet	0			0								0	3	3			3		3	16	16	32	8	8	4	20
	PH toilet/WC	1	1	1	3	1			1	1			1			3	3										
	Boys Toilet	0	0		0	10	10	10	30	12	12	12	36														
	Girls toilet	0	0		0								0														
Total					**3**				**31**				**37**		**3**		**3**			**3**			**32**				**20**
PVC waste pipe	one each for flat back and oval washbasin, sink and utensil wash trough												0														
Flat back wash basins					3	11	10	10	31	13	12	12	37	2	2												
Oval shaped wash basin					28				0				0														
Sink/ Utility					18				0				0	2	2			1		1	8	8	16	4	4	2	10
Urinals					9	6	6	6	18				0														
sink for water coolers					12	4	4	4	12	4	4	4	12														
Total					**70**	**21**			**61**				**49**		**4**		0			**1**			**16**				**10**
Toilet paper holder																											
same as European WC					13				7				7	1	1			2		2	8	8	16	4	4	2	10
Total					**13**				**7**				**7**		**1**					**2**			**16**				**10**
PVC connection pipe													0														
Flat back wash basins		1	1	1	3	11	10	10	31	13	12	12	37	2	2	3	3	3		3	16	16	32	8	8	4	20
Oval shaped wash basin		12	8	8	28				0				0			9	9										
WC's cistern (IWC & EWC)		15	7	7	29				0	13	12	12	37	2	2	3	3	3		3	16	16	32	8	8	4	20
Urinals					0	6	6	6	18				0				0										
Geysers	kitchen (@1 no. per geyser)				0	1	1	1	3	1	1	1	3	2	2	1	1	2		2	16	16	32	8	8	4	20
Water purifier		2	2	2	6	4	4	4	12	4	4	4	12			2	2										
Total					**66**				**52**				**77**		**6**		**18**			**8**			**96**				**60**
Indian type WC pan	Bed room toilet																	1		1	8	8	16	4	4	2	10
	boys toilet/toilet	2	2	2	6	10	10	10	30	12	12	12	36	1	1	3	3										
	girls toilet	3	3	3	9																						
Total					**15**				**30**				**36**		**1**		**3**			**1**			**16**				**10**
PTMT Soap Dish Holder																											
Flat back wash basins																											
Oval shaped wash basin																											
wash basins																											
utensil wash areas																14	14										
hand wash area																											
bathroom/near shower tap						10	10	10	30	12	12.00	12.00	36	2	2	1	1	3		3	16	16	32	8	8	4	20
kitchen	near sink																				8	8	16	4	4	2	10
PH toilet									1	1			1														
Total					**0**				**31**				**37**		**2**		**15**			**3**			**48**				**30**
PTMT Towel Rail, 600mm long																3	3										
Principal, VP & Staff toilet		4			4																						
PH toilet/bathroom		1	1	1	3									2	2			3		3	16	16	32	8	8	4	20
kitchen area																4	4										
Total					**7**				**3**				**19**		**2**		**7**			**3**			**32**				**20**
PTMT Soap dispenser																											
Boys Toilet/washbasin/handwash		2	2	2	6	2	2	2	6					2	2	12	12	3		3	16	16	32	8	8	4	20
Girls Toilet		2	2	2	6				0	2	2	2	6														
Principal, VP & Staff toilet		4			4				0																		
PH toilet		1	1	1	3	1			1	1			1														
Total					**19**				**7**				**7**		**2**		**12**			**3**			**32**				**20**
PTMT Swivelling Shower																											
bathroom/toilet in kichen court area						11	10	10	31	11	10		21	2	2	1	1	3		3	16	16	32	8	8	4	20
Total					**0**				**31**				**21**		**2**		**1**			**3**			**32**				**20**
PTMT Waste Coupling																28	28										
Total					**0**												**28**										
U-shaped SS grab bar for PH toilet																0	0										
		1	1	1	3	1			1	1			1														
Total					**3**				**1**				**1**			**0**	**0**										
Oval shaped wash basin	Boys toilet	4	4	4	12								0							0			0				
	Girls toilet	4	4	4	12								0							0							
	Principal, VP & Staff t	4	0		4																						
	Handwash															6	6										
Total					**28**								**0**				**6**										

	600x450mm Bevelled edge mirror																											
	Flat back wash basins					3	11	10	10	31	11	10		21	2	2	3	3	3		3	16	16	32	8	8	4	20
	Oval shaped wash basin					28											9	9										
	Labs					4																						
	Total					**35**				**31**				**21**		**2**		**12**			**3**			**32**				**20**
	PTMT grating, circular type (without hole for waste pipe)													0														
	100mm nominal dia													0														
	E/WC					13								0			3	3										
	Girls Toilet		2	2	2	6								0														
	Boys Toilet		2	2	2	6	12	10	10	32				0														
	PH Toilet		1	1	1	3								0														
	Drinking water area		3	3	3	9					1	1		2														
	Toilet Common area													0														
	bathroom/washbasin/shower portion													0	2	2	3	3	6		6	32	32	64	8	8	4	20
	hand wash													0			3	3										
	utensil wash													0			14	14										
	balcony													0								8	8	16	4	4	2	10
	Total					**37**				**32**		**0**		**2**		**2**		**23**			**6**			**80**				**30**
	PTMT grating, circular type																											
	125 mm nominal dia with 25 mm waste hole																											
	Lab					18																						
	kitchen sink/utility														2	2	2	2	1		1	16	16	32	8	8	4	20
	Total					**18**					**0**	**0**				**2**		**2**			**1**			**32**				**20**
	stainless steel robe plate/pegs (hook) having three pegs (hook) in one strip																											
	Principal, VP & Staff toilet	toilet / bathroom door	4			4	11	10	10	31	10	10		20	2	2	3	3	3		3	16	16	32	8	8	4	20
		bedroom door													2	2	3	3	3		3	16	16	32	8	8	4	20
		WC																										
		PH toilet									1			1														
		Kitchen area																										
	Total					**4**				**31**				**21**		**4**		**6**			**6**			**64**				**40**
	SS butter fly hook																											
		Kitchen													1	1			1		1	8	8	16	4	4	2	10
																1					**1**			**16**				**10**
	100mm dia uPVC pipes																											
	School																											
	Soil pipes																											
	Toilets																											
	Waste pipe																											
	Staff toilet soil pipe																											
	waste pipe																											
	Principal & Vice principal toilet soil pipe																											
	waste pipe																											
	BIO & Chem lab																											
	Physics lab																											
	Vertcal toilet																											
	NGL to MH																											
	Vertcal staff toilet																											
	Vertcal Pri. & V. Prin. toilet																											
	vertical kitchen																											
	Back courtyard toilet																7.10	7.10										
	Kitchen/cooking platform																16.45	16.45										
	WB near entrance																20.40	20.40										
	Courtvard																9.90	9.90										
	toilet																8.00	8.00										
	Total					279				481				481		10		**62.00**			21			432				240
	Gully Trap		10			10	4			4	8			8	2	2	9	9	2		2	24		24	8			8
						10				4				8		2		**9**			2			24				8
	PVC waste darinage pipe 40mm																											
	WB/hand wash		20			20									1.50	1.50	11.00	11.00	2.25		2.25	####	###	24.00	6.00	6.00	3.00	15.00
	urinal		12			12																						
	utensil wash trough					0											38.00	38.00										
	Total					32				38						2.00		**49.00**			2.00			24.00				**15.00**
	Cleanup Plugs																											
	toilets		12			12	6	6	6	18	24			24	2	2			2		2	8	8	16	4	4	2	10
	labs/kitchen		2			2									1	1												
						0																						
	Total					14				18				24		3		**5**			2			16				**10**
	Floor Trap																											
	standard (normal type)	EWC & Lab sink/kitchen sink					11	10	10	31					1	1	2	2.00	1		1							
		bathroom/shower portion													2	2			3		3	16	16	32	8	8	4	20
		EWC														0												
		utility													1	1						8	8	16	4	4	2	10
		balcony													1	1						8	8	16	4	4	2	10
	Total					31				**31**						4		**2**			4			64				**40**
	Floor Trap (Hoooer type)																											
	with two or more inlet of size 40 to 65mm	washbasin/ urinal/ sink	12	12		24	10	10	10	30					**2**	2	3	3.00	3		3	24	24	48	12	12	6	30
		washbasin for P. VP ar	4			4																						
		utensil wash trouch															14	14.00										
		hand wash															3	3.00										
		drinking water cooler trough															2	2.00										
		shower																										
	Total					28				30						2		**22**			**3**			**48**				**30**

Doors & Window schedule is based on NESTS's reference drawings

Type	Location	Size (in Metre)		School			Total No.	Area (in sqm)	Cefficient for painting	S/E painting (in sqm)	Flash door non decorative (in sqm)	Flash door preplaminated (for toilet)		M.S tubular frame for window @ 9.12 Kg/Sqm	wt. of Steel glazed window @ 7.9 kg/sqm	wt. of Steel gauzed window @ 75% of glazed window kg/sqm	SS (grade 304) wire gauze of 0.5 mm dia wire	AL Tower bolt		AL sliding door bolt		AL handle		Hydraulic Door Closer	Glazing @90% of W & V qty.	Extra for frosted glass @90% of W & V qty.	MS casement stays	Brass casement W fasteners	Al floor door stopper	Extra for lipping to flush door	Extra for cutting rebate in flash door shutters	M.S. Grill @ 6.35 kg/sqm	Deduct not p & f MS butt hinges	Collapsible gate	M.S. Tee (40x40x6mm)door frame wt. @ 3.50 kg/metre
		W	H	GF	FF	SF				13.61.1	9.21.1	MR 7		10.15.1	10.11.1	10.11.1	10.29.2	9.97.1 (300mm)	9.97.4 (150mm)	9.96.1 (300mm)	9.96.2 (250mm)	9.100.1 (125mm)	9.100.2 (100mm)	9.84	10.3.1	9.12	9.68.1	9.85	9.101.2	9.23	9.26	9.48.1	9.55.2	10.3	10.13.1
Doors																																			
D1 (Aluminium door)	Entrance hall (main lobby)	2.40	2.10	1	0	0	1	5.04	0	0																									
GL (Aluminium fixed glazing)	Entrance hall (main lobby)	1.05	2.10	2	0	0	2	4.41	0	0																									
V4 (Aluminium fixed glazing)	Entrance hall (main lobby) above main door	2.40	0.30	1	0	0	1	0.72	0	0																									
D2 (Flash door)	Class room, Lab & other rooms	1.20	2.10	14	12	9	35	88.2	1.20	211.68	88.20							35	35	0	35	70	0	6					35	88.20	0		140		661.50
D3 (Flash door)	Lab store	1.00	2.10	1	0	3	4	8.4	1.20	20.16	8.40							4	4	0	4	8	0	6					4	8.40	0		16		72.80
D4 (Preplaminated flush door)	Toilet block (internal door)	0.75	2.10	11	7	7	25	39.38	0	0		39.38						25	25	0	25	50	0										75		433.13
D5 (Prelaminated flush door)	Janitor	0.60	2.10	1	1	1	3	3.78	0	0		3.78						3	3	0	3	6	0	3									12		50.40
D6 (Preplaminated flush door)	Toilet block main door and Mumty	1.00	2.10	2	2	3	7	14.7	0	0		14.70						7	7	0	7	14	0										28		127.40
SD (Preplaminated flush door)	Differently abled person toilet	1.20	2.10	1	1	1	3	7.56	1.20	18.14		7.56						3	3	0	3	6	0							7.56			12		56.70
CG (steel collapsible gate)	at main entrance	4.80	2.40	1	0	0	1	11.52	1.50	17.28																								11.52	
CGI (steel collapsible gate)	at corridor exit	2.40	2.40	3	0	0	3	17.28	1.50	25.92																								17.28	
Steel Windows/Ventilators																																			
W1	Class room, Lab & other rooms	1.95	1.50	19	24	24	67	195.98	0.50	195.98				1787.34	1548.24	0	0								176.38		134	134				1244.47			
V1	Toilet	0.60	0.60	10	6	6	22	7.92	0.50	7.92				72.23	62.57	0	0								7.13	7.13	44	44				50.29			
V2	Toilet	0.90	1.20	3	3	2	8	8.64	0.50	8.64				78.80	68.26										7.78	7.78	16	16				54.86			
V3	Class room, Lab & other rooms	1.95	0.60	27	23	21	71	83.07	0.50	83.07				757.60	656.25	0	0								74.76		284	284				527.49			
M.S. grill	M.S. grill at ends of long corridor	2.40	7.50	0	2	0	2	36.00	0.50	36.00				328.32	284.40	0	0								32.4		8	8				228.60			
								331.61	1.00	331.61				0.00	0.00	0	0								0	0	0	0							
										Total Qty.				**3024.29**	**2619.72**										**298.45**	**14.91**				**104.16**	**0.00**	**2105.71**		28.8	1401.93
										say				**3024.00**	**2620.00**	**0**	**0**	**77**	**77**	**0**	**77**	**154**	**0**	**15**	**298.00**	**15.00**	**486**	**486**	**39**	**104**	**0**	**2106**	**283**	**29**	**1402**

Classroom at GF = 2
Classroom at FF = 8
Classroom at SF = 6

Type	Location	Size (in Metre)		Hostel (G+2) without kitchen)(Boys			Total	Area (in sqm)	Cefficient for painting	S/E painting (in sqm)	Flash door non decorative (in sqm)	Flash door preplaminated (for toilet)	25mm dia MS curtain rod	M.S tubular frame for window @ 12.40 Kg/Sqm	wt. of Steel glazed window @ 7.91 kg/sqm	wt. of Steel gauzed window @ 70% of glazed window kg/sqm	SS (grade 304) wire gauze of 0.5 mm dia wire @70% of glazed window	AL Tower bolt		AL sliding door bolt		AL handle		Hydraulic Door Closer	Glazing @90% of W & V qty.	Extra for frosted glass @90% of W & V qty.	MS casement stays	Brass casement W fasteners	Al floor door stopper	Extra for lipping to flush door	Extra for cutting rebate in flash door shutters	M.S. Grill @ 6.35 kg/sqm	Deduct not p & f MS butt hinges	Collapsible gate	M.S. Tee (40x40x6mm)door frame wt. @ 3.50 kg/metre	Extra for providing vision panel	M.S. casement stays
		W	H	GF	FF	SF				13.61.1	9.21.1	MR 7	9.47.2	10.15.1	10.11.1	10.11.1	10.29.2	9.97.1 (300mm)	9.97.4 (150mm)	9.96.1 (300mm)	9.96.2 (250mm)	9.100.1 (125mm)	9.100.2 (100mm)	9.84	10.30.1	9.12	9.68.1	9.85	9.101.2	9.23	9.26	9.48.1	9.55.2	10.3	10.13.1	9.24.1	9.68.1
Doors																																			
D1 (Aluminium door)	Entrance lounge/lobby	1.50	2.10	1	0	0	1	0	0.00	0.00												0											19.95		
GL (Aluminium fixed glazing)	Entrance lounge/lobby	1.05	2.55	2	0	0	2	0	0.00	0.00												0											43.05		
D2 (preplaminated flush door)	Toilet block (internal door of bath & WC)	0.75	2.10	28	28	28	84	132.30	0	0		132.30						84	84	0	84	0	168										504		1455.30		
D3 (Flash door)	warden and commoon room	0.90	2.10	3	0	0	3	5.67	1.20	13.61	5.67		4.08					3	3	0	3	0	6					3	5.67				18	5.67	53.55	5.67	
D4 (Flash door)	Dormitory (8 beded room)	1.20	2.10	10	12	12	34	85.68	1.20	205.63	85.68		96.44					34	34	0	34	0	68					34	85.68				204		642.60	85.68	
D5 (preplaminated flush door)	Toilet block (main door), differently abled toilet, electrical room & Mumty	1.00	2.10	3	4	4	11	23.10	0	0		23.10						11	11	0	11	0	22	11									66		200.20		
D6 (Flash door)	corridor to backyard	1.50	2.10	0	0	0	0	0.00	1.20	0.00	0.00							0	0	0	0	0						0	0.00	0.00			0		0.00		
D7 (Flash door)		0.90	2.10	2	0	0	2	3.78	1.20	9.07	3.78							2	2	0	2	4						2	3.78				12		35.70		
D8 (Flash door)		1.80	2.10	1	0	0	1	3.78	1.20	9.07	3.78							1	1	0	1	2						1	3.78				6		21.00		
CG	at main entrance	4.54	2.85	1	0	0	1	12.94	1.50	38.82																								12.94			
Steel Windows/Ventilators																																					618
W1	Dormitory (8 beded room)	1.30	1.80	31	36	36	103	241.02	0.50	241.02			181.28	2988.65	1906.47	1334.53	168.71								216.92		618	618				1530.48					36
W4		1.50	1.80	2	2	2	6	16.20	0.50	16.20				200.88	128.14	89.7	11.34								14.58		36	36				102.87					72
W6		1.00	1.80	4	4	4	12	21.6	0.50	21.60				267.84	170.86	119.6	15.12								19.44		48	48				137.16					126
W7		0.48	1.80	5	8	8	21	18.14	0.50	18.14				224.94	143.49	100.44	12.7								16.33		126	126				115.19					60
W8		1.20	1.80	2	4	4	10	21.60	0.50	21.60				267.84	170.86	119.6	15.12								19.44		40	40				137.16					
V		0.75	0.60	29	30	30	89	40.05	0.50	40.05				496.62	316.80										36.05	36.05	0	0				254.32					
V2		0.90	1.20	0	0	0	0	0	0.50	0.00				0.00	0.00										0	0	0	0				0.00					0
V3		0.60	1.20	4	4	4	12	8.64	0.50	8.64				107.14	68.34	47.84	6.05								7.78	7.78	48	48				54.86					
V4		1.50	0.75	1	0	0	1	1.13	0.50	1.13				14.01	8.94										1.02	1.02	0	0				7.18					6
M.S. grill	M.S. grill for window							368.38	1.00	368.38																											
										Total Qty.				**1012.96**	**98.91**	**155.40**	**241.80**	**4567.92**	**2913.90**	**1811.71**	**229.84**				**331.56**	**44.85**	**916**	**916**	**40**	**98.91**	**0.00**	**2339.32**	**810**	**12.94**	**2471.35**	**91.35**	**918.00**
										say				**1012**	**99**	**155**	**242.00**	**4568**	**2914**	**1812**	**229**	**135**	**135**	**0**	**135**	**6**	**264**	**11**	**332**	**45**	**916**	**916**	**40**	**99**	**0**	**2339**	**810**	**13**	**2471**	**91**	**918**
															4726																						

Type	Location	Size (in Metre)		Warden Resi.			Total	Area (in sqm)	Cefficient for painting	S/E painting (in sqm)	Flash door non decorative (in sqm)	Flash door preplaminated (for toilet)		M.S tubular frame for window @ 12.40 Kg/Sqm	wt. of Steel glazed window @ 7.91 kg/sqm	wt. of Steel gauzed window @ 70% of glazed window kg/sqm	SS (grade 304) wire gauze of 0.5 mm dia wire @70% of glazed window	AL Tower bolt		AL sliding door bolt		AL handle		Hydraulic Door Closer	Glazing @90% of W & V qty.	Extra for frosted glass @90% of W & V qty.	MS casement stays	Brass casement W fasteners	Al floor door stopper	Extra for lipping to flush door	Extra for cutting rebate in flash door shutters	M.S. Grill @ 6.35 kg/sqm	Deduct not p & f MS butt hinges	Collapsible gate	M.S. Tee (40x40x6mm)door frame wt. @ 3.50 kg/metre
		W	H	GF						13.61.1	9.21.1	MR 7		10.15.1	10.11.1	10.11.1	10.29.2	9.97.1 (300mm)	9.97.4 (150mm)	9.96.1 (300mm)	9.96.2 (250mm)	9.100.1 (125mm)	9.100.2 (100mm)	9.84	10.3.1	9.12	9.68.1	9.85	9.101.2	9.23	9.26	9.48.1	9.55.2	10.3	10.13.1
Doors																																			
D1 (Flash door)	Main entrance door and bleony/utility door	1.00	2.10	3			3	6.30	1.20	15.12	6.30							3	3	0	3	0	6					3	6.30	0		12		54.60
D2 (preplaminated flush door)	Toilet	0.75	2.10	2			2	3.15	0.00	0.00		3.15						2	2	0	2	0	4					0				6		34.65
D3 (Flash door)	Bedroom1 & 2	0.90	2.10	2			2	3.78	1.20	9.07	3.78							2	2	0	2	0	4					2	3.78			8		35.70
Steel Windows/Ventilators																																			
W1	Bedroom 1 & 2	1.50	1.20	2			2	3.6	0.50	3.60				44.64	28.48	19.94	2.52								3.24	0	8	8				22.86			
W2	Dining/Living	1.00	1.20	1			1	1.2	0.50	1.20				14.88	9.49	6.64	0.84								1.08	0	4	4				7.62			
W3	Kitchen	0.90	1.05	1			1	0.95	0.50	0.95				11.78	7.51	5.26	0.67								0.86	0	4	4				6.03			
V1	Toilet block	0.60	0.90	2			2	1.08	0.50	1.08				13.39	8.54										0.97	0.97	4	4				6.86			
M.S. grill	M.S. grill for window							6.83	1.00	6.83																									
										Total Qty.				**84.69**	**54.02**	**31.84**	**4.03**								**6.15**	**0.97**				**10.08**		**43.37**			**124.95**
										say				**85**	**54**	**32**	**4**	**7**	**7**	**0**	**7**	**0**	**14**	**0**	**6.00**	**1.00**	**20**	**20**	**5**	**10.00**	**0**	**43**	**26**	**0**	**125**
															86																					

Type	Location	Size (in Metre)		Kitchen			Total	Area (in sqm)	Cefficient for painting	S/E painting (in sqm)	Flash door non decorative (in sqm)	Flash door preplaminated (for toilet)		M.S tubular frame for window @ 12.40 Kg/Sqm	wt. of Steel glazed window @ 7.91 kg/sqm	wt. of Steel gauzed window @ 70% of glazed window	SS (grade 304) wire gauze of 0.5 mm dia wire @70% of glazed	AL Tower bolt		AL sliding door bolt		AL handle		Hydraulic Door Closer	Glazing @90% of W & V qty.	Extra for frosted glass @90% of W & V qty.	MS casement stays	Brass casement W fasteners	Al floor door stopper	Extra for lipping to flush door	Extra for cutting rebate in flash door shutters	M.S. Grill @ 6.35 kg/sqm	Deduct not p & f MS butt hinges	Collapsible gate	M.S. Tee (40x40x6mm)door frame wt. @ 3.50 kg/metre
		W	H	GF						13.61.1	9.21.1	MR 7		10.15.1	10.11.1	10.11.1	10.29.2	9.97.1 (300mm)	9.97.4 (150mm)	9.96.1 (300mm)	9.96.2 (250mm)	9.100.1 (125mm)	9.100.2 (100mm)	9.84	10.3.1	9.12	9.68.1	9.85	9.101.2	9.23	9.26	9.48.1	9.55.2	10.3	10.13.1
Doors																																			
D1 (Aluminium door)	Double leaf door to dining (al. door)	1.80	2.10	2			2	7.56	0.00	0.00																									
D2 (Flash door)	Double leaf door to courtyard for boys & girls	1.20	2.10	2			2	5.04	1.20	12.10	5.04							2	2	2	0	8							2	5.04	5.04		**8**		37.80
D3 (Flash door)	Pantry, kitchen courtyard & handwash/toilet	1.20	2.10	7			7	17.64	1.20	42.34	17.64							7	7	0	7	14		4					7	17.64			**28**		132.30
D4 (Preplaminated flush door)	Toilet & gas bank	0.75	2.10	4			4	6.3	0	0		6.30						4	4	0	4	8											**12**		69.30
D5 (Flash door)	Store	1.00	1.20	4			4	9.4	1.20	20.16	8.40							4	4																72.80
CG	at main entrance of dining hall	2.40	2.10	2			2	10.08	1.50	15.12																								10.08	
Steel Windows/Ventilators																																			
W	Dining hall	1.50	1.80	6			6	16.2	0.50	16.20				200.88	128.14	89.7	11.34								14.58	0	24	24				102.87			
W1	Store, kitchen, pantry & dining	1.00	1.80	18			18	32.4	0.50	32.40				401.76	256.28	179.4	22.68								29.16	0	72	72				205.74			
W2	Cooking area in kitchen	0.90	1.65	6			6	8.91	0.50	8.91				110.48	70.48	49.34	6.24								8.07	0	24	24				56.58			
V	Toilet & gas bank	0.60	0.90	6			6	3.24	0.50	3.24				40.18	25.63										2.92	2.92	12	12				20.57			
M.S. grill	M.S. grill for window							60.75	1.00	60.75					0.00																				
										Total Qty.				**753.30**	**480.53**	**318.44**	**40.26**								**54.68**	**2.92**				**22.68**	**5.04**	**385.76**			312.2
										say				**753**	**481**	**318**	**40**	**17**	**17**	**2**	**11**	**30**	**0**	**4**	**55**	**3**	**132**	**132**	**9**	**23**	**5**	**386**	**48**	**10**	**312**
															799																					

Type	Location	Size (in Metre)		Principal Residence			Total	Area (in sqm)	Cefficient for painting	S/E painting (in sqm)	Flash door non decorative (in sqm)	Flash door preplaminated (for toilet)		M.S tubular frame for window @ 12.40 Kg/Sqm	wt. of Steel glazed window @ 7.91 kg/sqm	wt. of Steel gauzed window @ 70% of glazed window kg/sqm	SS (grade 304) wire gauze of 0.5 mm dia wire @70% of glazed window	AL Tower bolt		AL sliding door bolt		AL handle		Hydraulic Door Closer	Glazing @90% of W & V qty.	Extra for frosted glass @90% of W & V qty.	MS casement stays	Brass casement W fasteners	Al floor door stopper	Extra for lipping to flush door	Extra for cutting rebate in flash door shutters	M.S. Grill @ 6.35 kg/sqm	Deduct not p & f MS butt hinges	Collapsible gate	M.S. Tee (40x40x6mm)door frame wt. @ 3.50 kg/metre	MS jali door
		W	H	GF						13.61.1	9.21.1	MR 7		10.15.1	10.11.1	10.11.1	10.29.2	9.97.1 (300mm)	9.97.4 (150mm)	9.96.1 (300mm)	9.96.2 (250mm)	9.100.1 (125mm)	9.100.2 (100mm)	9.84	10.3.1	9.12	9.68.1	9.85	9.101.2	9.23	9.26	9.48.1	9.55.2	10.3	10.13.1	
Doors																																				
DO	Main door	1.00	2.10	1			1	2.1	1.20	5.04	2.10							2	2	2	0	4		1					1	2.10	2.10		**4**		18.20	
D1	Living room	1.00	2.10	1			1	2.1	1.20	5.04	2.10							1	1	0	1	2							1	2.10			**4**		18.20	
D2	bed room/kitchen/office	0.90	2.10	5			5	9.45	1.20	22.68	9.45							5	5	0	5	10							5	9.45			**20**		89.25	
D3 (Preplaminated flush door)	Toilet	0.75	2.10	4			4	6.3	0	0		6.30						4	4	0	4	8							4				**12**		69.30	
D4	kitchen	0.90	2.10	1			1	1.89	0.00	0.00		1.89						1	1	0	1	2							1	1.89			**4**		17.85	
Steel Windows/Ventilators																																				
W1	living/bed room-1/bed room-2	1.50	1.35	4			4	8.1	0.50	8.10				100.44	64.07	44.85	5.67								7.29	0	16	16				51.44				
W2	living/bed room-3	1.00	1.35	2			2	2.7	0.50	2.70				33.48	21.36	14.95	1.89								2.43	0	8	8				17.15				
W3	kitchen	1.00	1.05	1			1	1.05	0.50	1.05				13.02	8.31	5.82	0.74								0.95	0	4	4				6.67				
W4	entrance lobby	0.60	1.80	1			1	1.08	0.50	1.08				13.39	8.54	5.98	0.76								0.97	0	4	4				6.86				
V1	Toilet	0.60	0.75	4			4	1.8	0.50	1.80				22.32	14.24										1.62	1.62	8	8				11.43				
M.S. grill	M.S. grill for window							14.73	1.00	14.73																										
										Total Qty.				**182.65**	**116.52**	**71.60**	**9.06**								**13.26**	**1.62**				**15.54**	**2.10**	**93.55**			212.8	0
										say				**183**	**117**	**72**	**9**	**13**	**13**	**2**	**11**	**26**	**0**	**1**	**13**	**2**	**40**	**40**	**12**	**16.00**	**2**	**94**	**44**	**0**	**213**	**0.00**
																189																				

Type	Location	Size (in Metre)		Type-III Quarters (15 + 1 = 16 nos.)			Total	Area (in sqm)	Cefficient for painting	S/E painting (in sqm)	Flush door non decorative (in sqm)	Flush door preluminated (for toilet)		M.S tubular frame for window @ 12.40 Kg/Sqm	wt. of Steel glazed window @ 7.91 kg/sqm	wt. of Steel gauzed window @ 70% of glazed window kg/sqm	SS (grade 304) wire gauze of 0.5 mm dia wire @70% of glazed window	AL Tower bolt		AL sliding door bolt		AL handle		Hydraulic Door Closer	Glazing @90% of W & V qty.	Extra for frosted glass @90% of W & V qty.	MS casement stays	Brass casement W fasteners	Al floor door stopper	Extra for lipping to flush door	Extra for cutting rebate in flush door shutters	M.S. Grill @ 6.35 kg/sqm	Deduct not p & f MS butt hinges	Collapsible gate	M.S. Tee (40x40x6mm)door frame wt. @ 3.50 kg/metre	MS jali door
		W	H	per qtr		total qtrs				13.61.1	9.21.1	MR 7		10.15.1	10.11.1	10.11.1	10.29.2	9.97.1 (300mm)	9.97.4 (150mm)	9.96.1 (300mm)	9.96.2 (250mm)	9.100.1 (125mm)	9.100.2 (100mm)	9.84	10.3.1	9.12	9.68.1	9.85	9.101.2	9.23	9.26	9.48.1	9.55.2	10.3	10.13.1	
Doors																																			
D1	Main entrance door	1.00	2.10	1		18	18	37.8	1.20	90.72	37.80							18	18		2	72		18					18	37.80	0.00		**72**		327.60	
D2	bed room	1.00	2.10	2		18	36	75.6	1.20	181.44	75.60							36	2	0	36	72							36	75.60			**144**		655.20	
D3 (Prelaminated flush door)	Toilet	0.75	2.10	2		18	36	56.7	0	0		56.70						36	2	0	36	72							36				**144**		675.70	
D4 (Prelaminated flush door)	utility/balcony	0.90	2.10	2		18	36	68.04	0	0		68.04						36	2	0	36	72							36				**144**		642.60	
D5	mumty door (MS door)	1.00	2.10	2		2	4	8.4	1.00	16.80		8.40						4	2	0	4	8							4				**16**		72.80	
CG I	staircase	3.25	2.10	1		2	2	13.65	1.50	20.48																			2					13.65		
Steel Windows/Ventilators							0																						0							
W1	bed room-1,2	1.50	1.35	2		18	36	72.9	0.50	72.90				903.96	576.64	403.65	51.03								65.61	0	144	144				462.92				
W2	living/dining room	1.50	1.20	1		18	18	32.4	0.50	32.40				401.76	256.28	179.4	22.68								29.16	0	72	72				205.74				
W3	living/dining room	0.90	1.20	1		18	18	19.44	0.50	19.44				241.06	153.77	107.64	13.61								17.5	0	72	72				123.44				
W4	kitchen	0.90	1.05	1		18	18	17.01	0.50	17.01				210.92	134.55	94.19	11.91								15.31	0	77	77				108.01				
V1	Toilet	0.60	1.20	2		18	36	25.92	0.50	25.92				321.41	205.03										23.33	23.33	72	72				164.59				
M.S. grill	M.S. grill for window							167.67	1.00	167.67																										
								Total Qty.		**644.78**	**113.40**	**133.14**		**2079.11**	**1326.27**	**784.88**	**99.23**								**150.91**	**23.33**					**113.40**	**0.00**	**1064.70**			2321.9	0
								say		**645**	**113**	**133**		**2079**	**1326**	**785**	**99**	**130**	**26**	**0**	**114**	**296**	**0**	**18**	**151**	**23**	**432**	**432**	**132**	**113.00**	**0**	**1065**	**520**	**14**	**2322**	**0.00**
															2111																					

Type	Location	Size (in Metre)		Type-II Quarters 10 nos.			Total	Area (in sqm)	Cefficient for painting	S/E painting (in sqm)	Flush door non decorative (in sqm)	Flush door preluminated (for toilet)		M.S tubular frame for window @ 12.40 Kg/Sqm	wt. of Steel glazed window @ 7.91 kg/sqm	wt. of Steel gauzed window @ 70% of glazed window kg/sqm	SS (grade 304) wire gauze of 0.5 mm dia wire @70% of glazed window	AL Tower bolt		AL sliding door bolt		AL handle		Hydraulic Door Closer	Glazing @90% of W & V qty.	Extra for frosted glass @90% of W & V qty.	MS casement stays	Brass casement W fasteners	Al floor door stopper	Extra for lipping to flush door	Extra for cutting rebate in flush door shutters	M.S. Grill @ 6.35 kg/sqm	Deduct not p & f MS butt hinges	Collapsible gate	M.S. Tee (40x40x6mm)door frame wt. @ 3.50 kg/metre	MS jali door
		W	H	per Qtr		Total qtrs				13.61.1	9.21.1	MR 7		10.15.1	10.11.1	10.11.1	10.29.2	9.97.1 (300mm)	9.97.4 (150mm)	9.96.1 (300mm)	9.96.2 (250mm)	9.100.1 (125mm)	9.100.2 (100mm)	9.84	10.3.1	9.12	9.68.1	9.85	9.101.2	9.23	9.26	9.48.1	9.55.2	10.3	10.13.1	
Doors																																			
D1	*Main door*	1.00	2.10	1		10	10	21.00	1.70	50.40	21.00							10	10		20	70		10					10	21.00	21.00		**40**		187.00	
D2	bed room	1.00	2.10	2		10	20	42.00	1.20	100.80	42.00							20	20		20	40							20	42.00			**80**		364.00	
D3 (Prelaminated flush door)	Toilet	0.75	2.10	2		10	20	31.50	0	0		31.50						20	20		20	40							20	0.00			**60**		346.50	
D4 (Prelaminated flush door)	utility/balcony	0.90	2.10	2		10	20	37.80	0.00	0.00		37.80						20	20		20	40		2					20						357.00	
D5 (MS door)	mumty door	1.00	2.10	2		1	2	4.20	1.00	8.40		4.20						2	2		2	4		0					2						36.40	
CG I	staircase	3.25	2.10	1		1	1	6.83	1.50	10.25																								6.83		
Steel Windows/Ventilators							0																												
W1	bed room-1,2	1.50	1.35	2		10	20	40.50	0.50	40.50				502.20	320.36	224.25	28.35								36.45	0	80	80				257.18				
W2	living/dining	1.50	1.20	1		10	10	18.00	0.50	18.00				223.20	142.38	99.67	12.6								16.2	0	40	40				114.50				
W3	living/dining	0.90	1.20	1		10	10	10.80	0.50	10.80				133.92	85.43	59.8	7.56								9.72	0	40	40				68.58				
W4	kitchen	0.90	1.05	1		10	10	9.45	0.50	9.45				117.18	74.75	52.33	6.62								8.51	0	40	40				60.01				
V1	Toilet	0.60	1.20	2		10	20	14.40	0.50	14.40				178.56	113.90										12.96	12.96	40	40				91.44				
M.S. grill	M.S. grill for window							93.15	1.00	93.15																										
								Total Qty.		**356.15**	**63.00**	**73.50**		**1155.06**	**736.82**	**436.05**	**55.13**								**83.84**	**12.96**					**63.00**	**21.00**	**591.51**			1285.9	0
								say		**356**	**63**	**74.00**		**1155**	**737**	**436**	**55**	**72**	**72**	**0**	**82**	**144**	**0**	**12**	**84**	**13**	**240**	**240**	**72**	**63.00**	**21**	**592**	**180**	**7.00**	**1286**	**0.00**
															1173																					

for 10 nos. quarters

Type	Location	Size (in Metre)		Guest House			Total	Area (in sqm)	Cefficient for painting	S/E painting (in sqm)	Flush door non decorative (in sqm)	Flush door preluminated (for toilet)		M.S tubular frame for window @ 12.40 Kg/Sqm	wt. of Steel glazed window @ 7.91 kg/sqm	wt. of Steel gauzed window @ 70% of glazed window kg/sqm	SS (grade 304) wire gauze of 0.5 mm dia wire @70% of glazed window	AL Tower bolt		AL sliding door bolt		AL handle		Hydraulic Door Closer	Glazing @90% of W & V qty.	Extra for frosted glass @90% of W & V qty.	MS casement stays	Brass casement W fasteners	Al floor door stopper	Extra for lipping to flush door	Extra for cutting rebate in flush door shutters	M.S. Grill @ 6.35 kg/sqm	Deduct not p & f MS butt hinges	Collapsible gate	M.S. Tee (40x40x6mm)door frame wt. @ 3.50 kg/metre	MS jali door
		W	H	GF						13.61.1	9.21.1	MR 7		10.15.1	10.11.1	10.11.1	10.29.2	9.97.1 (300mm)	9.97.4 (150mm)	9.96.1 (300mm)	9.96.2 (250mm)	9.100.1 (125mm)	9.100.2 (100mm)	9.84	10.3.1	9.12	9.68.1	9.85	9.101.2	9.23	9.26	9.48.1	9.55.2	10.3	10.13.1	
Doors																																			
D1	Main door	1.00	2.10	1			1	2.1	1.20	5.04	2.10							1	1	0	2	2		1					1	2.10			4		18.20	
D2	bed room	0.90	2.10	2			2	3.78	1.20	9.07	3.78							2	2	0	2	4							2	3.78			8		35.70	
D3	kitchen	0.75	2.10	1			1	1.58	1.20	3.79	1.58							1	1	0		2							1	1.58					17.33	
D3 (Prelaminated flush door)	Toilet	0.75	2.10	3			3	4.73	0	0		4.73						3	3	0	3	6							3				9		51.98	
D5 (Prelaminated flush door)	mumty door	1.00	2.10	2			2	4.2	0.00	0.00		4.20						2	2	0	2	4		0					2						36.40	37.8
Steel Windows/Ventilators																																			
W1	Dining hall/bed room	1.50	1.50	3			3	6.75	0.50	6.75				83.70	53.39	37.37	4.73								6.08	0	12	12				42.86				
W2	living	1.80	1.50	1			1	2.7	0.50	2.70				33.48	21.36	14.95	1.89								2.43	0	4	4				17.15				
W3	kitchen	0.90	1.20	1			1	1.08	0.50	1.08				13.39	8.54	5.98	0.76								0.97	0	4	4				6.86				
V1	Toilet	0.60	0.60	2			2	0.72	0.50	0.72				8.93	5.70										0.65	0.65	4	4				4.57				
M.S. grill	M.S. grill for window							11.25	1.00	11.25																										
								Total Qty.		**40.40**	**7.46**	**8.93**		**139.50**	**88.99**	**58.30**	**7.38**								**10.13**	**0.65**					**7.46**	**0.00**	**71.44**			159.61	37.8
								say		**40**	**7**	**9**		**140**	**89**	**58**	**7**	**9**	**9**	**0**	**9**	**18**	**0**	**1**	**10**	**1**	**24**	**24**	**9**	**7**	**0**	**71**	**21**	**0.00**	**160**	**38.00**

S.no.	DSR/2019	Items	Unit	Archery	volley ball	Basket ball	Running Track	Quantity	Rate (In Rs)	Amount (In Rs)
				1nos.	2nos.	2nos.	1nos.			
		Earth work								
								-		-
1	2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:	sqm	1000			4800	5,800.00	92.55	5,36,790
								-		-
2	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.						-		-
2.1	2.8.1	All kinds of soil	Cum			4		3.60	252.3	908
								-		-
		PCC						-		-
3	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :						-		-
								-		-
3.1	4.1.10	1:5:10 (1 Cement : 5 coarse sand (zone-III) : 10 graded stone aggregate 40 mm nominal size)	Cum	8		122		129.10	5520.3	7,12,671
		for Shed						-		-
								-		-
3.2	4.1.10	1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size)	Cum	1	0.73	128		129.79	6788.6	8,81,072
								-		-
								-		-
								-		-
		Flooring						-		-
4	11.5	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	100		1216		1,316.00	854.3	11,24,259
								-		-
5	11.8	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	sqm			1216		1,216.00	63.2	76,851
								-		-
		Brick work						-		-
								-		-
6	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :						-		-
6.1	6.12.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm					-	773.75	-
								-		-
		Roofing						-		-

7	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin- charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	96				96.00	627.55	60,245
								-		-
		Steel work						-		-
8	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete						-		-
8.1	10.16.1	Hot finished welded type tubes	Kg	2000		1100		3,100.00	143.45	4,44,695
								-		-
9	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.						-		-
9.1	10.25.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	Kg	100				100.00	93.65	9,365
								-		-
		Finishing work						-		-
10	13.4	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5						-		-
10.1	13.4.1	1:4 (1 cement: 4 coarse sand)	sqm					-	263.55	-
								-		-
11	13.18	Neat cement punning.	sqm					-	62.75	-
								-		-
12	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :						-		-
12.1	13.61.1	Two or more coats on new work	sqm	24				24.00	121.55	2,917
13	13.5	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.	sqm			1216		1,216.00	189.4	2,30,310
13.1	13.52.2	On concrete work								
								-		-
		Road work						-		-
								-		-
								-		-
14	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres	Sqm	1100		1216	9600	11,916.00	156.75	18,67,833
								-		-
15	16.3	Supplying and stacking at site.						-		-
15.1	16.3.3	53 mm to 22.4 mm size stone aggregate	Cum					-	1749.75	-
15.2	16.3.7	Stone screening 11.2 mm nominal size (Type B)	Cum					-	1978.5	-
15.3	16.3.9	Good earth	Cum	150	108		960	1,218.00	483.9	5,89,390
								-		-
16	16.7	Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.	Mtr.	196	156	204	480	1,036.00	167.8	1,73,841
								-		-
17	16.66	Excavating holes upto 0.10 cum, including getting out the excavated soil, then returning the soil as deported in layers not exceeding 20 cm in depth, including consolidating and deposited layer by ramming watering etc., disposing of surplus excavated soil as directed with in a lead of 50 mm and lift upto 1.5 m.						-		-
17.1	16.66.1	All kind of soil	Cum	12	4			16.00	26.45	423

								-		-
18	18.1	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.						-		-
18.1	18.12.6	50 mm dia nominal bore	Mtr.		12			12.00	565.25	6,783
								-		-
19	16.6	Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling.	Sqm				1700	1,700.00	19.9	33,830
								-		-
								-		-
										-
		Total								**67,52,184**
		Non-Schedule Items						-		-
								-		-
A		**Basket Ball**						-		-
A-1		Basket ball - **Board and Basket (MS Frame considered in DSR item no. 10.6.1)**	no.			2		2.00	20000	40,000
B		Archery						-		-
B-1		4 Stands @ rs 5000/-	Nos.	4				4.00	5000	20,000
								-		-
B-2		4 targets @ rs 5000/-	Nos.	4				4.00	5000	20,000
								-		-
B-3		10 Bow & Arrow @ rs 7000/-	Nos.	10				10.00	7000	70,000
C		**Volley Ball**						-		-
								-		-
								-		-
C-1		NET @ rs 5000/-	no.		2			2.00	5000	10,000
								-		-
										-
		Total MR-(B)								**1,60,000**
		Amount (A + B)		**9,76,923**	**1,00,276**	**33,07,027**	**25,27,958**			**69,12,184**
		In lakhs		**9.77**	**1.00**	**33.07**	**25.28**			**69.12**
		Nos.		**1.00**	**2.00**	**2.00**	**1.00**			
		Total Amount of Sports Facilities								

S.No.	DSR/2019	ITEM	No.	L	B	H	Total Quantity	unit	
1		**Archery**		**50**	**X**	**20**	**1000**	**sqm**	
1.1	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres							
		for Shed	1	20	5		100	sqm	

		for Ground	1	50	20		1000	sqm	
		Total					**1100**	sqm	
1.2	16.3	Supplying and stacking at site.							
	16.3.9	Good earth							
		for Ground	1	50	20	0.15	150	cum	
		Total					**150**	cum	
1.3	2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:							
		for Ground	1	50	20		1000	sqm	
1.4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :							
	4.1.10	1:5:10 (1 Cement : 5 coarse sand (zone-III) : 10 graded stone aggregate 40 mm nominal size)							
		for Shed	1	20	5	0.075	7.5	cum	
	4.1.10	1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size)							
		for Shed	12	0.45	0.45	0.6	1.458	cum	
1.5	11.5	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete							
		for Shed	1	20	5		100	sqm	
1.6	16.7	Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.							
		for shed outer side	1	22	6		56	mtr.	
		for Ground outer side	1	50	20		140	mtr.	
		Total					**196**	**mtr.**	
1.7	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin- charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.							
		for shed outer side	1.2	20	4		96	SQM	
1.8	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.							
	10.16.1	Hot finished welded type tubes							
		for shed outer side	1	20	4	25	2000	KG	

1.9	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required							
	10.25.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete							
		for shed outer side	1	100.00			100	KG	
1.10	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :							
	13.61.1	Two or more coats on new work							
		for shed outer side	0.3	20	4		24	sqm	
1.11	16.66	Excavating holes upto 0.10 cum, including getting out the excavated soil, then returning the soil as deported in layers not exceeding 20 cm in depth, including consolidating and deposited layer by ramming watering etc., disposing of surplus excavated soil as directed with in a lead of 50 mm and lift upto 1.5 m.							
	16.66.1	All kind of soil	1	12			12	each	
		Non-Schedule Items							
1		4 Stands @ rs 5000/-		4			0	nos.	
2		4 targets @ rs 5000/-		4			0	nos.	
3		10 Bow & Arrow @ rs 7000/-		10			0	nos.	

2		**Volley ball**		**24**	**X**	**15**	**360**	**sqm.**	
2.1	16.7	Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.							
		for Ground outer side	1	24	15		78	mtr.	
2.2	16.3	Supplying and stacking at site.							
	16.3.9	Good earth							
		for Ground	1	24	15	0.15	54	cum	
2.3	16.66	Excavating holes upto 0.10 cum, including getting out the excavated soil, then returning the soil as deported in layers not exceeding 20 cm in depth, including consolidating and deposited layer by ramming watering etc., disposing of surplus excavated soil as directed with in a lead of 50 mm and lift upto 1.5 m.							
	16.66.1	All kind of soil	1	2			2	each	
2.4	8.1	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.							
	8.12.6	50 mm dia nominal bore							
		for Ground	2	3			6	mtr.	
2.5	4.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :							
	4.1.6	1::2 ;4(1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 20 mm nominal size)	2	0.45	0.45	0.9	0.3645	cum	
								cum	
		Total					**0.3645**	**cum**	

		Non-Schedule Items							
2.6		NET @ rs 5000/-	0	1			0	nos.	

Option -1									
3		**Basket Ball**		**32**	**X**	**19**	**608**	**sqm.**	
3.1	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres							
		for Ground	1	32	19		608	sqm	
3.2	16.7	Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.							
		for Ground outer side	1	32	19		102	mtr.	
3.3	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.							
	2.81	All kinds of soil	2	0.9	0.9	1.2	1.8	cum	
3.4	11.5	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete							
		for Ground	1	32	19		608	sqm	
3.5	11.8	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.							
		for Ground	1	32	19		608	sqm	
3.6	4.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :							
	4.1.10	1:5:10 (1 Cement : 5 coarse sand (zone-III) : 10 graded stone aggregate 40 mm nominal size)							
		for Ground	1	32	19	0.1	60.8	cum	
3.7	4.1.6	1::2 ;4(1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 20 mm nominal size)	2	1	1	1.5	3	cum	
		for Ground	1	32	19	0.1	60.8	cum	
							63.8		
3.8	16.3	Supplying and stacking at site.							
	16.3.3	53 mm to 22.4 mm size stone aggregate							
		for Ground					0	cum	

	16.3.7	Stone screening 11.2 mm nominal size (Type B)							
							0	cum	
3.9	16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .							
		for Ground					0	cum	
4	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.							
	10.16.1	Hot finished welded type tubes							
		for pole	1	550			550	KG	
	13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.							
	13.52.2	On concrete work	1	32	19		608	sqm	
	MR	Pole steup Board and Basket (MS Frame considered in DSR item no. 10.6.1)	1	1			1	no.	

4		**Running Track**							
4.1	2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:							
		for Ground	1	4800			4800	sqm	
4.2	16.3	Supplying and stacking at site.							
	16.3.9	Good earth							
		for Ground	1	4800		0.2	960	cum	
4.3	16.7	Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.							
		for Ground outer side	2	240			480	mtr.	
4.4	16.6	**Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling.**							
		for track	1	1700			1700	sqm	
4.5	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres.	2	4800			9600	sqm	

UG tank and Pump Room over UG tank

S.no.	Description	Unit	NO	L	B	H	TOTAL	Tank capacity without free board	Remarks
	Underground Tank		Litre	50000					
	Free board		Metre	0.30					
	Internal Tank size		Cum	12.00	4.00	2.40	115.20	100.80	115.20
	external dimenion for Earth work								
	Extra e/w margin on both side taken along external periphery	Mtr		1.00					
	Length	Mtr		13.40					
	Width	Mtr		5.40					
	Depth	Mtr		2.95					
	PCC Depth	Mtr		0.10					
	Raft Depth	Mtr		0.30					
	Wall Thickness	Mtr		0.20					
	Top Slab Thickness	Mtr		0.15					
	Manhole Cover	Each		2					
	Foot Rest	Each		12					
A	***EARTH WORKS:-***								
1	**Excavation Raft**								
	Raft	Cum	1	13.40	5.40	2.95	213.46		
						Total Qty.	**213.46**		
						Say	**213.00**		
2	**Extra Height of 1.5m**								
	Raft	Cum	1	13.40	5.40	1.45	104.92		
						Total Qty.	**104.92**		
						Say	**105.00**		
3	**Filling available Earth**								
	Taken equal to total E/w	Cum	1		213.46		213.46		
	volume of tank		-1	9.40	3.40	2.71	-86.61		**deduction made**
	footing PCC		-1	7.24			-7.24		
						Total Qty.	**119.61**		
						Say	**120.00**		
B	***CONCRETE WORKS:-***								
1	**PCC 1:5:10**								
	Raft	Cum	1	13.40	5.40	0.10	7.24		
						Total Qty.	**7.24**		
						Say	**7.00**		
2	**PCC Shuttering**								
	Raft	Sqm	1	37.60		0.10	3.76		
						Total Qty.	**3.76**		
						Say	**4.00**		
C	***REINFORCED CEMENT CONCRETE WORK:-***								
	SHUTTERING WORK:-								
	Foundation								
	Raft								
	along long side	Sqm	2	12.60		0.30	7.56		
	along short side	Sqm	2	4.60		0.30	2.76		
						Total Qty.	**7.56**		
						Say	**8.00**		
	Wall								
	Long walls	Sqm	4	12.40		2.4	119.04		
	Shorts walls (2 outer walls	Sqm	4	4.40		2.4	42.24		
	Short wall (01 internal divider wall)	Sqm	2	3.00		2.4	14.40		
						Total Qty.	**175.68**		
						Say	**176.00**		
	Column								
	For U/G tank C1 (300mm x 450mm)	Sqm	6	0.60		2.40	8.64		**?**
	For pump room over over U/G tank C2 (230mm x 300mm)	Sqm	4	1.06		2.60	11.02		
						Total Qty.	**19.66**		
						Say	**20.00**		
	Slab								
	U/G tank roof slab	Sqm	1	12.00	4.00		48.00		
	Less round manhole cover	Sqm	-2	0.64			-1.27		
	Pump room roof slab	Sqm	1	4.04	3.00		12.12		
						Total Qty.	**58.85**		
						Say	**59.00**		
	Beam								
	For U/G tank								
	B1	sqm	2	8.60		0.45	7.74		
	B2	sqm	3	3.00		0.45	4.05		
	For pump room								
	along long wall	sqm	2	4.50		1.13	10.17		
	along short wall	sqm	2	2.94		1.13	6.64		
						Total Qty.	**28.60**		
						Say	**29.00**		
i)	**Reinforcement in RCC Works**								
	Below Plinth Level		Concrete.	Coefficient		**Weight of R/F**			
	Foundation/raft	Cum	16.37	55	Kg/Cum	900.24	Kg		
	Columns	Cum	1.58	180	Kg/Cum	284.31	Kg		
	Rcc Wall	Cum	12.40	180	Kg/Cum	2232.36	Kg		
	Slab	Cum	10.78	95	Kg/Cum	1024.11	Kg		
	Beam	Cum	3.40	180	Kg/Cum	612.36	Kg		
			44.53		**Total Qty.**	**5053.38**	Kg		
					Say	**5053.00**	Kg		
ii)	**RCC Works**								
	Below Plinth Level								
	RCC Foundation								
	Raft	Cum	1	12.40	4.40	0.30	16.37		
						Total Qty.	**16.37**		
	RCC Wall								
	Long walls	Cum	2	11.40	0.20	1.95	8.89		
	short wall	Cum	2	3.00	0.20	1.95	2.34		
	short wall (divider wall)	Cum	1	3.00	0.20	1.95	1.17		

						Total Qty.	**12.40**		
	RCC Column								
	C1	Cum	6	0.30	0.45	1.95	1.58		
						Total Qty.	**1.58**		
	RCC Slab								
	Covereed area	Cum	1	13.40	5.40	0.15	10.85		
	Less round manhole cover	Cum	-2	0.25		0.15	-0.07		
						Total Qty.	**10.78**		
	RCC Beam								
	B1	Cum	2	8.10	0.30	0.45	2.19		
	B2	Cum	3	3.00	0.30	0.45	1.22		
						Total Qty.	**3.40**		
		G. Total of RCC upto plinth level					44.53		
						Say	**45.00**		
iii)	**Reinforcement in RCC Works**								
	Above Plinth Level		Concrete.	Coefficient		**Weight of R/F**			
	Columns	Cum	0.75	180	Kg/Cum	134.14	Kg		
	Slab	Cum	1.78	95	Kg/Cum	169.26	Kg		
	Beam	Cum	1.56	180	Kg/Cum	281.39	Kg		
			4.09		**Total**	**584.79**	Kg		
iv)	**RCC Works**								
	Above Plinth Level								
	RCC Column (230mm x 300mm)								
	C2	Cum	4	0.23	0.30	2.70	0.75		
						Total Qty.	**0.75**		
	RCC Slab (0.15m thick)								
	Roof	Cum	1	4.04	2.94	0.15	1.78		
						Total Qty.	**1.78**		
	RCC Beam (230mm x450mm)								
	along long wall	Cum	2	3.90	0.23	0.45	0.81		
	along short wall	Cum	2	2.80	0.30	0.45	0.76		
						Total Qty.	**1.56**		
		G. Total of RCC above plinth level					**4.09**		
						Say	**4.00**		
	Pump room								
	Outer Length	**4.50**	**Metre**						
	Outer Width	**3.40**	**Metre**						
	Floor Height	**3.05**	**Metre**						
	Column size	**0.23m x 0.30m**							
	Beam size	**0.23m x 0.45m**							
	Brick work in S/S								
	Long wall (out-to-out)	Cum	2	4.50	0.23	2.60	5.38		
	short wall (in-to-in)	Cum	2	2.94	0.23	2.60	3.52		
	Less door	Cum	1	1.00	0.23	2.10	0.48		
	Less ventilator	Cum	-2	1.80	0.23	0.45	-0.37		
	Less column	Cum	-4	0.30	0.23	0.45	-0.12		
	Parapet wall								
	Long wall (out-to-out)	Cum	2	4.50	0.23	0.45	0.93		
	short wall (in-to-in)	Cum	2	2.94	0.23	0.45	0.61		
						Total Qty.	**10.43**		
						Say	**10.00**		
4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:								
4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)				LS	**Total**	**1.00**		
	CC in coping and W/V sill								
	Roofing								
	CC gola								
	Long wall (out-to-out)	Metre	2	4.04			8.08	Metre	
	short wall (in-to-in)	Metre	2	2.94			5.88		
						Total Qty.	**14.96**		check linking
						Say	**15.00**		
	CC Khurra						**1.00**	No.	
	Water proofing	Sqm	1	4.04	2.94		11.88	Sqm	
						Total Qty.	**11.88**		
						Say	**12.00**		
9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:								
	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws								
	Door	Sqm	1	1.00		2.10	2.10		
						Total	2.10		
						Say	**2.00**		
10.13	Providing and fixing T-iron frames for doors of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.								
10.13.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).								

	Security cabin: MS tee 40x40x6mm wt. @ 3.50 kg/m	Kg	1	5.1		3.5	17.85		
						Total	17.85		
						Say	**18.00**		
10.11	Providing and fixing factory made ISI marked steel glazed windows and ventilators, side /top /centre hung, with beading and all members such as F7D,F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured								
10.11.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)								
	Pump room over UG tank								
	steel Ventilator wt. @ 12.30 kg/sqm	Sqm	2	1.80	0.45	12.30	19.93	Sqm	
						Total Qty.	**19.93**		
						Say	**20.00**		
10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :								
10.30.1	4.0 mm thick glass panes								
	Pump room over UG tank								
	glazing for Ventilator @ 90%	Sqm	2	1.80	0.45	0.90	1.46	Sqm	
						Total Qty.	**1.46**		
						Say	**1.00**		
9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete								
9.48.1	Fixed to steel windows by welding								
	Pump room over UG tank								
	grill for Ventilator, wt. @ 12.00 kg/sqm	kg	2	1.80	0.45	12.00	19.44	kg	
						Total Qty.	**19.44**		
						Say	**19.00**		
	CC flooring	Sqm	1	4.04	2.94		11.88	Sqm	
						Total Qty.	**11.88**		
						Say	**12.00**		
	CC skirting								
	Pump room								
	Long wall	Sqm	2	4.04		0.10	0.81	Metre	
	short wall	Sqm	2	2.94		0.10	0.59		
	Less door	Sqm	-1	1.00		1.10	-1.10		
						Total Qty.	**37.16**		
						Say	**37.00**		
10.01	Plaster Internal (1:6, 15mm thick)								
	Ground Floor to First Floor								
	Pump room over UG tank								
	inside plaster								
	Long walls	Sqm	2	4.04		2.75	22.22		
	short walls	Sqm	2	2.94		2.75	16.17		
	Less door	Sqm	-1	1.00		2.1	-2.10		
	Less Ventilator	Sqm	-2	1.8		0.45	-1.62		
	Parapet wall								
	Long walls	Sqm	2	4.04		0.45	3.64		
	short walls	Sqm	2	2.94		0.45	2.65		
						Total Qty.	**38.31**		
#REF!	Plaster external (1:6, 12mm thick)					**Say**	**38.00**		
	Pump room over UG tank								
	Parapet wall top								
	Long walls (out-to-out)	Sqm	2	4.50		0.25	2.25		
	Short walls (in-to-in)	Sqm	2	2.94		0.25	1.47		
						Total Qty.	**3.72**		
						Say	**4.00**		
13.16	6 mm cement plaster of mix								
13.16.1	1:3 (1 cement : 3 fine sand)								
	Security cabin ceiling	Sqm	1	4.04	2.94		11.88		
						Total Qty.	**11.88**		
						Say	**12.00**		
10.03	18mm cement plaster in two coats								
a)	1:4 (1 cement: 4 coarse sand)								
	Pump room over UG tank								
	Long walls	Sqm	2	4.50		3.65	32.85		
	short walls	Sqm	2	3.40		3.65	24.82		
	Less door	Sqm	-1	0.9		2.1	-1.89		
	Less ventilator	Sqm	-2	1.8		0.45	-1.62		
						Total Qty.	**54.16**		
						Say	**54.00**		
13.42	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.								
13.42.1	Two or more coats on new work								
	Qty. same as of inside plaster and ceiling plaster	Sqm					50.19		
						Total	**50.19**		
						Say	**50.00**		
10.07	Finishing walls with textured exterior paint of required shade :								

a)	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm								
	Qty. same as external plaster area plus externa 12mm plaster						57.88		
						Total	**57.88**		
						Say	**58.00**		
10.09	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					coeff.			
	Security cabin: Door	Sqm	1	1.00	2.10	1.20	2.52		
	Ventilator	Sqm	4	1.80	0.45	0.50	1.62		
	M.S grill	Sqm	2	1.80	0.45	1.00	1.62		
						Total	**1.62**		
						Say	**2.00**		
22.23	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, reservior, 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								
22.23.1	For vertical surface two coats @ 0.70 kg per sqm								
	quantity same as C/s for UG tank wall						176.00	Sqm	
22.23.2	For horizontal surface one coat @1.10 kg per sqm.								
	Qty. same as foe raft slab and roof slab of UG tank								
	U/G tank roof slab	Sqm	1	9.00	3.00		27.00		
	under side UG tank roof slab	Sqm	1	9.00	3.00		27.00		
	Less round manhole cover	Sqm	-2	0.785			-1.57		
						Total Qty.	52.43		
						Say	52.00	Sqm	

FIRE FIGHTING - RATE ANALYSIS						
5	**MR**	**Providing and fixing 150 mm dial diameter size Pressure gauge (0-15 Kg/Cm2) complete with shut off valve duly calibrated before installation complete as required & as per enclosed specification.**				
		DESCRIPTION	**UNIT**	**QUANTITY**	**RATE**	**AMOUNT**
		Details of cost for one no.				
		MATERIAL: (M/s Fire Shield)				
		Cost of Pressure gauge	each	1.00	495.00	495.00
		Installation Charges		4.00%		19.80
		TOTAL				514.80
		Add 1% Water charges		1.00%		5.15
		Total after adding water charges				519.95
		Add 12% GST applicable on work contract, reversible method (multiplying factor 0.1405)		14.05%		73.05
		Total after adding GST				593.00
		Add 15% Contractor's profit and overheads		15.00%		88.95
		Total after adding CP & OH				681.95
		Cost of each				681.95
		say				**682.00**
2	**MR**	**Providing and fixing Carbon-di-oxide fire extinguishers consisting of welded M.S cylindrical body, squeeze lever discharge valve fitted with internal discharge tube, 30cms long high pressure discharge hose, discharge nozzle, suspension bracket, confirming to IS : 15683 finished externally with red enamel paint and fixed to wall with brackets with rawl plug/dash fasteners complete with internal charge. Capacity 4.5 kg. ISI Marked.(Contractor should submit test certificate form manufacturer along with serial number of every extinguishers supplied.)**				
	CODE	**DESCRIPTION**	**UNIT**	**QUANTITY**	**RATE**	**AMOUNT**
		Details of cost for one no.				
		MATERIAL: (M/s Safex)				
	MR	Basic cost of CO2 type (BP 8200/- Less 35 %)	each	1.00	5330.00	5,330.00
		Installation Charges		2.00%		106.60
		TOTAL				5,436.60
		Add 12% GST applicable on work contract, reversible method (multiplying factor 0.1405)		14.05%		763.84
		Total after adding GST				6,200.44
		Add 15% Contractor's profit and overheads		15.00%		930.07
		Total after adding CP & OH				7,130.51
		Cost of each				7,130.51
		say				**7,131.00**
3	**MR**	**Providing and fixing (ABC Dry Chemical Powder) type Fire Extinguisher of Capacity 6 kg Confirms to IS 15683, bearing ISI mark complete with brass forged squeeze grip type valve fitted with pressure gauge , pressurize with dry Nitrogen gas filled, with discharge nozzle with wall mounting bracket (rubber gripped) complete with internal charges.**				
	CODE	**DESCRIPTION**	**UNIT**	**QUANTITY**	**RATE**	**AMOUNT**
		Details of cost for one no.				
		MATERIAL: (M/s Safex)				
	MR	Basic cost of ABC type(BP 3250/- Less 35 %)	each	1.00	2112.00	2,112.00
		Installation Charges		2.00%		42.24
		TOTAL				2,154.24
		Add 12% GST applicable on work contract, reversible method (multiplying factor 0.1405)		14.05%		302.67
		Total after adding GST				2,456.91
		Add 15% Contractor's profit and overheads		15.00%		368.54
		Total after adding CP & OH				2,825.45
		Cost of each				2,825.45
		say				**2,825.00**
1	**MR**	**Providing and fixing water Carbon-di-oxide (ISI marked) extinguishers including all accessories as per IS specification with wall bracket with rawl plug complete as reqd.**				

		Capacity 9 Litres				
	CODE	**DESCRIPTION**	**UNIT**	**QUANTITY**	**RATE**	**AMOUNT**
		Details of cost for one no.				
		MATERIAL: (M/s Safex)				
	MR	Basic cost of CO2 type (BP 4000/- Less 35 %)	each	1.00	2600.00	2,600.00
		Installation Charges		4.00%		104.00
		TOTAL				2,704.00
		Installation Charges		1.00%		27.04
		Total				2,731.04
		Add 12% GST applicable on work contract, reversible method (multiplying factor 0.1405)		14.05%		383.71
		Total after adding GST				3,114.75
		Add 15% Contractor's profit and overheads		15.00%		467.21
		Total after adding CP & OH				3,581.96
		Cost of each				3,581.96
		say				**3,582.00**
4	**MR**	**"Providing, fixing, testing and commissioning of control panel for Terrace Booster pumps. Incoming: MCCB 35A 1 set of Phase indicating lamps, 1 set of 35A Al bus bars, 1No Ammeter, 1No Voltmeter with phase selector switch Feeder for Booster Pumps and 1 No. 1 No. 32A TP MCCB without releases. DOL starter with over load relay, single phase preventor and indicating lamps with ON/OFF push buttons. 1 No. Automanual selector switch. Suitable for booster pumps"**				
	CODE	**DESCRIPTION**	**UNIT**	**QUANTITY**	**RATE**	**AMOUNT**
		Details of cost for one Set.				
		MATERIAL: (M/s Neptune)				
	MR	Unit Rate of Terrace Pump Panel (BP 35000/- Less 25 %)	each	1.00	26250.00	26,250.00
		TOTAL				26,250.00
		Add 12% GST applicable on work contract, reversible method (multiplying factor 0.1405)		14.05%		3,688.13
		Total after adding GST				29,938.13
		Add 15% Contractor's profit and overheads		15.00%		4,490.72
		Total after adding CP & OH				34,428.84
		Cost of each				34,428.84
		say				**34,429.00**

				LIGHTING											POWER				UPS	L.V				DB				
		DESCRIPTION		CEILING FAN 1200MM	Wall FAN 400MM	EXHAUST FAN (200mm)	EXHAUST FAN (300mm)	20W LED BRACKET LIGHT	12W LED DOWN LIGHTER	BATTEN HOLDER WITH LED 20W LAMP	BULK HEAD FITTING (WITH 10 W LED lamp)	10W LED MIRROR LIGHT	40W LED BATTEN	20W LED BATTEN (WALL / SURFACE)	5/6A LIGHT PLUG POINT	15/16A POWER PLUG POINT	15/16A FOR GYESER	16-25A AC POINT	2 x 6A PLUG POINT (UPS)	TV	VOICE	DATA	BELL	8WAY TPN	6WAY TPN	12WAY SPN	8WAY SPN	6WAY SPN
			nos																									
		SCHOOL BLOCK(G+2)																										
		GROUND FLOOR		**41**	**3**	**5**	**5**	**0**	**10**	**22**	**0**	**0**	**0**	**115**	**84**	**23**	**0**	**6**	**13**	**3**	**16**	**20**	**2**	**2**	**2**	**2**	**3**	**1**
		Entrance Hall	1											4	3	1												
		Porch	1											1														
		Office	1	4										6	10	1		1	4		4	4						
		Vice Principal Room	1	2										4	3	1		1			1	1	1					
		Waiting Room	1	1										1	2													
		Principal Room	1	4										6	4	1		1	1	1	1	1	1					
		Principal / VP Toilet	2			1				1																		
		TOTAL POWER LOAD (KW)	1	8										12	32	2					1	1						
		Boys' Toilet	1				1			2				3														
		Girls' Toilet	1				1			2				2														
		Differently abled Toilet	1			1				1																		
		Language Lab	1	4										7	1	1						1						
		Classroom	3	4										7	1	1						1						
		Staff Room 2	1	3						1				5	9	1		1	4	1	4	4						
		Staff Room 1	1	3						1				5	9	1		1	4	1	4	4						
		Staff Toilet (male)	1			1				1																		
		Staff Toilet (female)	1			1				1																		
		Recreation Room	0	4										6	4	1				1	1	1						
		Chemistry Lab & Store	0	8										12	17	2					1	1						
		Maths Lab	0	4										7	3	1					1	1						
		Medical Room	1	0	3		1							4	4	1					1	1						
		Pantry	1				1							1	2	1												
		General Store	1				1							2	1													
		Server Room	1											2	1	2		1										
		Staircases	2											1														
		Corridors	1						10	2				13		4								2	2	2	3	1
		Ramp	2							2				7														
		Assemble area stage	1							5						3												
		FIRST FLOOR		**48**	**0**	**1**	**2**	**0**	**10**	**9**	**0**	**0**	**0**	**120**	**24**	**17**	**0**	**0**	**0**	**1**	**8**	**15**	**0**	**2**	**2**	**2**	**3**	**1**
		Double Height Foyer & Terrace	0								3			3														
		Classroom	8	4										7	1	1						1						
		Computer Lab & Store	0	8										12	32	2			36		1	32						
		Boys' Toilet	1				1			2				3														
		Girls' Toilet	1				1			2				2														
		Differently abled Toilet	1			1				1																		
		Book Store	0	1										2		1												
		Library	1	12										18	12	4					7	6						
		Recreation Room	1	4										6	4	1				1	1	1						
		Staircases	2											1														
		Corridors	1						10					13		4								2	2	2	3	1
		Ramp	1							4				20														
		SECOND FLOOR		**50**	**0**	**1**	**2**	**0**	**10**	**7**	**3**	**0**	**0**	**121**	**142**	**17**	**0**	**0**	**32**	**0**	**3**	**40**	**0**	**2**	**2**	**2**	**3**	**1**
		Terrace	1								3			3														
		Classroom	6	4										7	1	1						1						
		Computer Lab & Store	1	10										12	32	3			32		1	32						
		Boys' Toilet	1				1			1				3														
		Girls' Toilet	1				1			1				2														
		Differently abled Toilet	1			1				1																		
		Lab Store	0	1										2		1												
		Biology Lab & Store	1	8										12	52	2					1	1						
		Physics Lab & Store	1	8										12	52	2					1	1						
		Staircases	2											1														
		Corridors	1						10					13		4								2	2	2	3	1
		Ramp	1							4				20														
		TOTAL		**139**	**3**	**7**	**9**	**0**	**30**	**38**	**3**	**0**	**0**	**356**	**250**	**57**	**0**	**6**	**45**	**4**	**27**	**75**	**2**	**6**	**6**	**6**	**9**	**3**

VOLTAGE DROP OF EMRS JHARKHAND - PATHNA

S.NO	DESCRIPTION		TYPE OF CABLE	TOTAL LENGTH OF CABLE
	FROM	TO		
1)	HT METER	HT PANEL	XLPE	60 RM
2)	HT PANEL	TRANSFORMER	XLPE	15 RM
3)	TR (250 KVA)	LT PANEL	XLPE	50 RM
4)	DG SET (62.5KVA)	EMER PANEL	XLPE	10 RM
5)	LT PANEL	Block Panel-KITCHEN/DINNING	XLPE	190 RM
6)	LT PANEL	BOYS HOSTEL PANE	XLPE	180 RM
7)	LT PANEL	GIRLS HOSTEL PANE	XLPE	235 RM
8)	LT PANEL	Block Panel-PRINCIPAL ROOM	XLPE	250 RM
9)	LT PANEL	Meter Board- TYPE-II BUILDING	XLPE	320 RM
10)	LT PANEL	Meter Board- TYPE-III (A) BUILDING	XLPE	280 RM
11)	LT PANEL	Meter Board- TYPE-III (B) BUILDING	XLPE	300 RM
12)	LT PANEL	School Building Panel	XLPE	120 RM
13)	School Building Panel	Fire Fighting Panel	XLPE	30 RM
14)	School Building Panel	UPS INPUT	XLPE	30 RM
15)	LT PANEL	Capacitor Panel	XLPE	20 RM
16)	BOYS HOSTEL P/	WARDEN PANEL (FOR BOYS)	XLPE	60 RM
17)	GIRLS HOSTEL P	WARDEN PANEL (FOR GIRLS)	XLPE	60 RM
18)	EMER PANEL	KITCHEN/DINNING (EMER)	XLPE	180 RM
19)	EMER PANEL	SCHOOL BUILDING VTPN DB	XLPE	120 RM
20)	EMER PANEL	BOY'S HOSTEL+WARDEN (EM PANEL)	XLPE	180 RM
21)	EMER PANEL	GIRL'S HOSTEL+WARDEN (EM PANEL)	XLPE	235 RM
22)	EMER PANEL	PLUMBING PANEL	XLPE	160 RM
23)	EMER PANEL	External Lighting Feeder Piller-1	XLPE	320 RM
24)	EMER PANEL	External Lighting Feeder Piller-2	XLPE	80 RM

25)	EMER PANEL	ESS, SECURITY ROOM	XLPE	70 RM
				3480 RM
S.no	Total			
1	Cable Supply	3.5CX25 AL		1405 RM
2		3.5CX35 AL		120 RM
3		3.5CX50 AL		200 RM
4		3.5CX70 AL		250 RM
5		3.5CX95 AL		120 RM
6		3.5CX120 AL		415 RM
7		3.5CX150 AL		970 RM
8	Cable Laying	Upto 35 sq. mm		1525 RM
9		Above 35 sq. mm and upto 95 sq. mm		570 RM
10		Above 95 sq. mm and upto 185 sq. mm		1385 RM

EMRS -HILLY REGION GIRLS HOSTEL (G+2) WITHOUT KITCHEN MEASUREMENT SHEET

				LIGHTING											POWER				UPS	L.V				DB				
S.NO		DESCRIPTION		CEILING FAN 1200MM	EXHAUST FAN (200mm)	EXHAUST FAN (300mm)	EXHAUST FAN (450mm)	BATTEN HOLDER WITH LED 20W LAMP	12W LED DOWN LIGHTER	15W LED DOWN LIGHT	20W LED BRACKET LIGHT	BULK HEAD FITTING (WITH 10 W LED lamp)	40W LED BATTEN	20W LED BATTEN (WALL / SURFACE)	5/6A LIGHT PLUG POINT	15/16A POWER PLUG POINT	15/16A FOR GYESER	16-25A AC POINT	6A PLUG POINT (UPS)	TV	VOICE	DATA	BELL	8WAY TPN	6WAY TPN	12WAY SPN	8WAY SPN	6WAY SPN
			Nos.																									
		HOSTEL (G+2) WITHOUT KITCHEN																										
		GROUND FLOOR (76 Beds)		**49**	**1**	**5**	**0**	**29**	**8**	**0**	**0**	**0**	**40**	**43**	**87**	**6**	**4**	**2**	**0**	**1**	**2**	**2**	**1**	**2**	**0**	**0**	**0**	**0**
		8 BED Dormatory	8	4				2					4		8													
		6 BED Dormatory	2	4				2					4		6													
		Toilet	2			2		4						7			2											
		Handicap Toilet	1		1			1																				
		Entrance lounge / Porch	1	1										3	2													
		Drinking water cooler	1												1	1												
		Warden Room	1	2										3	2	1		1			1	1	1					
		Common Room	1	6										8	3	1		1		1		1						
		Electrical Room	1			1								1	1	1					1							
		Corridors	1						8					12	2	2								2				
		Staircase	2											1														
		FIRST FLOOR(88 Beds)		**48**	**0**	**4**	**0**	**36**	**8**	**0**	**0**	**0**	**48**	**30**	**92**	**4**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**
		8 BED Dormatory	8	4				2					4		8													
		6 BED Dormatory	4	4				2					4		6													
		Toilet	2			2		4						7			2											
		WATER COOLER+ OPEN TERRACE	2					1							1	1												
		Corridors	1					2	8					14	2	2								2				
		Staircase	2									0		1														
		SECOND FLOOR (88 Beds)		**48**	**0**	**4**	**0**	**36**	**8**	**0**	**0**	**6**	**48**	**30**	**92**	**4**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**
		8 BED Dormatory	8	4				2					4		8													
		6 BED Dormatory	4	4				2					4		6													
		Toilet	2			2		4						7			2											
		WATER COOLER+ OPEN TERRACE	2					1							1	1												
		Corridors	1					2	8					14	2	2								2				
		Staircase	2									0		1														
		Terrace	1									6																
		TOTAL		**145**	**1**	**13**	**0**	**101**	**24**	**0**	**0**	**6**	**136**	**103**	**271**	**14**	**12**	**2**	**0**	**1**	**2**	**2**	**1**	**6**	**0**	**0**	**0**	**0**

EMRS -HILLY REGION BOYS HOSTEL (G+2) WITHOUT KITCHEN MEASUREMENT SHEET

				LIGHTING											POWER				UPS	L.V				DB				
S.NO		DESCRIPTION		CEILING FAN 1200MM	EXHAUST FAN (200mm)	EXHAUST FAN (300mm)	EXHAUST FAN (450mm)	BATTEN HOLDER WITH LED 20W LAMP	12W LED DOWN LIGHTER	15W LED DOWN LIGHT	20W LED BRACKET LIGHT	BULK HEAD FITTING (WITH 10 W LED lamp)	40W LED BATTEN	20W LED BATTEN (WALL / SURFACE)	5/6A LIGHT PLUG POINT	15/16A POWER PLUG POINT	15/16A FOR GYESER	16-25A AC POINT	6A PLUG POINT (UPS)	TV	VOICE	DATA	BELL	8WAY TPN	6WAY TPN	12WAY SPN	8WAY SPN	6WAY SPN
			Nos.																									
		HOSTEL (G+2) WITHOUT KITCHEN																										
		GROUND FLOOR (76 Beds)		**49**	**1**	**5**	**0**	**29**	**8**	**0**	**0**	**0**	**40**	**43**	**87**	**6**	**4**	**2**	**0**	**1**	**2**	**2**	**1**	**2**	**0**	**0**	**0**	**0**
		8 BED Dormatory	8	4				2					4		8													
		6 BED Dormatory	2	4				2					4		6													
		Toilet	2			2		4						7			2											
		Handicap Toilet	1		1			1																				
		Entrance lounge / Porch	1	1										3	2													
		Drinking water cooler	1												1	1												
		Warden Room	1	2										3	2	1		1			1	1	1					
		Common Room	1	6										8	3	1		1		1		1						
		Electrical Room	1			1								1	1	1					1							
		Corridors	1						8					12	2	2								2				
		Staircase	2											1														
		FIRST FLOOR(88 Beds)		**48**	**0**	**4**	**0**	**36**	**8**	**0**	**0**	**0**	**48**	**30**	**92**	**4**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**
		8 BED Dormatory	8	4				2					4		8													
		6 BED Dormatory	4	4				2					4		6													
		Toilet	2			2		4						7			2											
		WATER COOLER+ OPEN TERRACE	2					1							1	1												
		Corridors	1					2	8					14	2	2								2				
		Staircase	2									0		1														
		SECOND FLOOR (88 Beds)		**48**	**0**	**4**	**0**	**36**	**8**	**0**	**0**	**6**	**48**	**30**	**92**	**4**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**
		8 BED Dormatory	8	4				2					4		8													
		6 BED Dormatory	4	4				2					4		6													
		Toilet	2			2		4						7			2											
		WATER COOLER+ OPEN TERRACE	2					1							1	1												
		Corridors	1					2	8					14	2	2								2				
		Staircase	2									0		1														
		Terrace	1									6																
		TOTAL		**145**	**1**	**13**	**0**	**101**	**24**	**0**	**0**	**6**	**136**	**103**	**271**	**14**	**12**	**2**	**0**	**1**	**2**	**2**	**1**	**6**	**0**	**0**	**0**	**0**

				LIGHTING											POWER				UPS	L.V					DB				
S.NO		DESCRIPTION		CEILING FAN 1200MM	EXHAUST FAN (200mm)	EXHAUST FAN (300mm)	BATTEN HOLDER WITH LED 20W LAMP	12W LED DOWN LIGHT	15W LED DOWN LIGHT	18W LED DOWN LIGHT	BULK HEAD FITTING (WITH 10 W LED lamp)	40W LED BATTEN	20W LED BATTEN (WALL / SURFACE)	5/6A LIGHT PLUG POINT	15/16A POWER PLUG POINT	15/16A FOR GYESER	16-25A AC POINT	6A PLUG POINT (UPS)	TV	VOICE/TELEPHONE	DATA	BELL	8WAY TPN	6WAY TPN	12WAY SPN	8WAY SPN	6WAY SPN
			nos																										
		GROUND FLOOR		**4**	**3**	**0**	**9**	**0**	**0**	**0**	**2**	**5**	**0**	**6**	**7**	**2**	**1**	**0**	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**
		Living/ Dining Room	1	2			1					2		1	2				1	1	1	1	1				
		Kitchen	1		1		1					1		2	2	1											
		Utility balcony	1				1								1												
		Bedroom 1	1	1			1					1		1	1		1										
		Bedroom 2	1	1			1					1		1	1												
		Verandah and Terrace	1				1				2			1													
		Toilet 1	1		1		1									1											
		Toilet 2	1		1		2																				
		TOTAL		**4**	**3**	**0**	**9**	**0**	**0**	**0**	**2**	**5**	**0**	**6**	**7**	**2**	**1**	**0**	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**

				LIGHTING										POWER				UPS	L.V				DB				
S.NO		DESCRIPTION		CEILING FAN 1200MM	EXHAUST FAN (200mm)	EXHAUST FAN (300mm)	BATTEN HOLDER WITH LED 20W LAMP	12W LED DOWN LIGHT	15W LED DOWN LIGHT	18W LED DOWN LIGHT	BULK HEAD FITTING (WITH 10 W LED lamp)	40W LED BATTEN	20W LED BATTEN (WALL / SURFACE)	5/6A LIGHT PLUG POINT	15/16A POWER PLUG POINT	15/16A FOR GYESER	16-25A AC POINT	6A PLUG POINT (UPS)	TV	VOICE/TELEPHONE	DATA	BELL	8WAY TPN	6WAY TPN	12WAY SPN	8WAY SPN	6WAY SPN
			nos																								
		GROUND FLOOR		**4**	**3**	**0**	**9**	**0**	**0**	**0**	**2**	**5**	**0**	**6**	**7**	**2**	**1**	**0**	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**
		Living/ Dining Room	1	2			1					2		1	2				1	1	1	1	1				
		Kitchen	1		1		1					1		2	2	1											
		Utility	1				1								1												
		Bedroom 1	1	1			1					1		1	1		1										
		Bedroom 2	1	1			1					1		1	1												
		Verandah and Terrace	1				1				2			1													
		Toilet 1	1		1		1									1											
		Toilet 2	1		1		2																				
		BOYS HOSTEL WARDEN QUARTER		4		2	5	4	0	0	2	0	4	11	5	3	3	0	3	1	0	1	1	0	0	0	0
		TOTAL POWER LOAD (KW)																									
		TOTAL		**4**	**3**	**0**	**9**	**0**	**0**	**0**	**2**	**5**	**0**	**6**	**7**	**2**	**1**	**0**	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**

EMRS - Kitchen & Dinning measurement sheet

				LIGHTING										POWER				UPS	L.V				DB				
S.NO		DESCRIPTION		CEILING FAN 1200MM	EXHAUST FAN (200mm)	EXHAUST FAN (300mm)	BATTEN HOLDER WITH LED 20W LAMP	12W LED DOWN LIGHTER	15W LED DOWN LIGHTER	18W LED DOWN LIGHTER	BULK HEAD FITTING (WITH 10 W LED lamp)	40W LED BATTEN	20W LED BATTEN (WALL / SURFACE)	5/6A LIGHT PLUG POINT	15/16A POWER PLUG POINT	15/16A FOR GYESER	16-25A AC POINT	6A PLUG POINT (UPS)	TV	VOICE	DATA	BELL	8WAY TPN	6WAY TPN	12WAY SPN	8WAY SPN	6WAY SPN
			nos																								
		GROUND FLOOR		**26**	**8**	**6**	**20**	**0**	**0**	**0**	**3**	**60**	**4**	**29**	**23**	**0**	**1**	**0**	**2**	**0**	**2**	**0**	**2**	**0**	**0**	**0**	**0**
		Handwash Area	2									3															
		Dining Room	2	9			8					12		8	2				1		1		1				
		Utility/Wash	2									3		1													
		Toilet	2		1		1																				
		Pantry	1	4								3			4												
		Kitchen	1			6						8		8	8												
		Store 1	1		1								1		1		1										
		Store 2	1		1								1		1												
		Gas Bank and Terrace	1		1		1				3																
		Toilet (service area)	1		1		1																				
		Preparation Area	1	4								13		3	3								1				
		Store 3	1		1								1		1												
		Store 4	1		1								1		1												
		TOTAL		**26**	**8**	**6**	**20**	**0**	**0**	**0**	**3**	**60**	**4**	**29**	**23**	**0**	**1**	**0**	**2**	**0**	**2**	**0**	**2**	**0**	**0**	**0**	**0**

FIRE FIGHTING SYSTEM - Hilly REGION HOSTEL WITHOUT KITCHEN & SCHOOL BLDG ON PATTERN (G+2)

S. NO.	DESCRIPTION	UNIT	QTY. - SCHOOL(G+2)						QTY. -BOYS'HOSTEL-2B (G+2)						QTY. -GIRLS'HOSTEL-3B (G+2)						QTY. - KITCHEN & DINING (G)/ ESS				Total
			Ground Floor	First Floor	Second Floor	Terrace	Vertical	TOTAL	Ground Floor	1st floor	Second Floor	Terrace	Vertical	TOTAL	Ground Floor	1st floor	Second Floor	Terrace	Vertical	TOTAL	Ground Floor	Terrace	Vertical	TOTAL	
	FIRE FIGHTING AND HYDRANT SYSTEM																								
1	**Teraace Pump**	Each				1		1.0				1		1.0				1		1.0				-	**3**
2	**Control Panel For Terrace Pump**	Each				1		1.0				1		1.0				1		1.0				-	**3**
3	**First-aid Hose Reel**	Each	2	2	2	0		6.0	2	2	2	0		6.0	2	2	2	0		6.0				-	**18**
4	**Internal M.S (Heavy Class) pipe**							-						-						-				-	**0**
	25 mm dia	Metre	2	2	2			6	2	2	2			6	2	2	2			6					**18**
	65 mm dia	Metre					20	20.0					20	20					20	20				-	**60**
	80 mm dia	Metre				70		70.0				50		50				50		50				-	**170**
	100 mm dia	Metre				15		15.0				15		15				15		15				-	**45**
5	**Butter Fly Valve**							-						-						-				-	**0**
	100 mm dia	Each				2		2.0				2		2.0				2		2.0				-	**6**
6	**Non-Return Valve**							-						-						-				-	**0**
	80 mm dia	Each				1		1.0				1		1.0				1		1.0				-	**3**
7	**Gun metal gate valve with C.I. wheel**							-						-						-				-	**0**
	25 mm nominal bore	Each	2	2	2	0		6.0	2	2	2	0		6.0	2	2	2	0		6.0				-	**18**
8	**Stainless steel Y-strainer**							-						-						-				-	**0**
	100 mm dia	Each				1		1.0				1		1.0				1		1.0				-	**3**
9	**Pressure gauge (0-15 Kg/Cm2) complete**							-						-						-				-	**0**
	150mm dia.	Each				1		1.0				1		1.0				1		1.0				-	**3**
10	**Air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top terrace eyel**	Each				1		1.0				1		1.0				1		1.0				-	**3**
11	**Fire Extinguisher, Carbon-di-oxide type capacity 4.5 Kg**	Each						-						-						-	2			2.0	**2**
12	**6kg ABC (Powder Type) Fire Extinguisher.**	Each	4	4	4			12.0	3	3	3			9.0	3	3	3			9.0	9			9.0	**39**
13	**9 ltrs CO2 Fire Extinguisher.**	Each						-				0	0	-				0	0	-	2			2.0	**2**

			LIGHTING									POWER				UPS	L.V				DB				
S.NO		DESCRIPTION	CEILING FAN 1200MM	EXHAUST FAN (450mm)	20W LED BRACKET LIGHT	12W LED DOWN LIGHTER	15W LED DOWN LIGHTER	BATTEN HOLDER WITH LED 20W LAMP	BULK HEAD FITTING (WITH 10 W LED lamp)	40W LED BATTEN	20W LED BATTEN (WALL / SURFACE)	5/6A LIGHT PLUG POINT	15/16A POWER PLUG POINT	15/16A FOR GYESER	16-25A AC POINT	6A PLUG POINT (UPS)	TV	VOICE	DATA	BELL	8WAY TPN	6WAY TPN	12WAY SPN	8WAY SPN	6WAY SPN
		MISCELLANEOUS BUILDING																							
a		SUB STATION BUILDING	4	4	0	0	0	0	0	0	13	0	4	0	0	0	0	0	0		0	0	0	1	0
b		PUMP & GUARD ROOM	1	0	0	0	0	0	0	0	4	4	2	0	0	0	0	1	0		0	0	0	0	1
c		UG TANK	0	0	0	0	0	0	0	0	6	0	1	0	0	0	0	0	0		0	0	0	0	1
		TOTAL	**5**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**23**	**4**	**7**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**2**

EMRS - Type II Qtrs measurement sheet (Phase II)

				LIGHTING										POWER				UPS	L.V				DB				
S.NO		DESCRIPTION		CEILING FAN 1200MM	EXHAUST FAN (200mm)	EXHAUST FAN (300mm)	BATTEN HOLDER WITH LED 20W LAMP	12W LED DOWN LIGHTER	15W LED DOWN LIGHTER	BULK HEAD FITTING (WITH 10 W LED lamp)	Decorative light fittings for LED bulbs (w/o bulbs)	20W LED tube light (w/o tubes)	40W LED BATTEN (WALL / SURFACE)	5/6A LIGHT PLUG POINT	15/16A POWER PLUG POINT	15/16A FOR GYESER	16-25A AC POINT	6A PLUG POINT (UPS)	Cable TV Pt.	VOICE/TELEPHONE	DATA	BELL	8WAY TPN	6WAY TPN	12WAY SPN	8WAY SPN	6WAY SPN
	Total 10 Qtrs. (Block 1 (G+2) = 10 nos)																										
		TOTAL Qty	**Nos.**	**30**	**0**	**10**	**80**	**0**	**15**	**1**	**0**	**43**	**0**	**60**	**60**	**10**	**0**	**0**	**10**	**10**	**0**	**10**	**0**	**0**	**10**	**0**	**0**
		Living/Dining Room	10	1			1					1		1	1				1	1		1			1		
		Bed Room 1	10	1			1					1		1	1												
		Bed Room 2	10	1			1					1		1	1												
		Toilet - 1	10				1									1											
		Toilet - 2	10				1																				
		Utility Area	10				1								1												
		Kitchen	10			1	1					1		2	2												
		Balcony	10				1							1													
		Stair Case +Terrace	3							1		1															
		Common Area	3						5																		
		TOTAL		**30**	**0**	**10**	**80**	**0**	**15**	**1**	**0**	**43**	**0**	**60**	**60**	**10**	**0**	**0**	**10**	**10**	**0**	**10**	**0**	**0**	**10**	**0**	**0**

EMRS - Type III Qtrs measurement sheet (Phase II)

		LIGHTING										POWER				UPS	L.V				DB				
DESCRIPTION		CEILING FAN 1200MM	EXHAUST FAN (200mm)	EXHAUST FAN (300mm)	BATTEN HOLDER WITH LED 20W LAMP	12W LED DOWN LIGHTER	15W LED DOWN LIGHTER	BULK HEAD FITTING (WITH 10 W LED lamp)	Decorative light fittings for LED bulbs (w/o bulbs)	20W LED tube light (w/o tubes)	40W LED BATTEN (WALL / SURFACE)	5/6A LIGHT PLUG POINT	15/16A POWER PLUG POINT	15/16A FOR GYESER	16-25A AC POINT	6A PLUG POINT (UPS)	Cable TV Pt.	VOICE/TELEPHONE	DATA	BELL	8WAY TPN	6WAY TPN	12WAY SPN	8WAY SPN	6WAY SPN
TOTAL Qty	**Nos.**	**72**	**0**	**18**	**144**	**0**	**20**	**8**	**0**	**94**	**0**	**108**	**126**	**36**	**18**	**0**	**18**	**18**	**0**	**18**	**0**	**0**	**18**	**0**	**0**
Living/Dining Room	18	2			1					2		1	2				1	1		1			1		
Bed Room 1	18	1			1					1		1	1		1										
Bed Room 2	18	1			1					1		1	1												
Toilet - 1	18				1									1											
Toilet - 2	18				1																				
Kitchen	18			1	1					1		2	2	1											
Utility Area	18				1								1												
Balcony	18				1							1													
Stair Case +Terrace	4							2		1															
Common Area	4						5																		
TOTAL		**72**	**0**	**18**	**144**	**0**	**20**	**8**	**0**	**94**	**0**	**108**	**126**	**36**	**18**	**0**	**18**	**18**	**0**	**18**	**0**	**0**	**18**	**0**	**0**

EMRS - Principal Qtr. measurement sheet (Phase II)

				LIGHTING										POWER				UPS	L.V				DB				
S.NO		DESCRIPTION		CEILING FAN 1200MM	EXHAUST FAN (200mm)	EXHAUST FAN (300mm)	BATTEN HOLDER WITH LED 20W LAMP	10 W LED Mirror LIGHT	20 W LED Bracket LIGHT	BULK HEAD FITTING (WITH 10 W LED lamp)	Decorative light fittings for LED bulbs (w/o bulbs)	20W LED tube light (w/o tubes)	40W LED BATTEN (WALL / SURFACE)	5/6A LIGHT PLUG POINT	15/16A POWER PLUG POINT	15/16A FOR GYESER	16-25A AC POINT	6A PLUG POINT (UPS)	Cable TV Pt.	VOICE/TELEPHONE	DATA	BELL	8WAY TPN	6WAY TPN	12WAY SPN	8WAY SPN	6WAY SPN
		TOTAL Qty		**7**	**4**	**0**	**13**	**1**	**1**	**2**	**0**	**9**	**0**	**8**	**9**	**2**	**3**	**1**	**2**	**2**	**1**	**1**	**1**	**1**	**0**	**0**	**0**
		Entrance Porch	1				1																1	1			
		Entrance Lobby	1									1															
		Office	1	1			1					1		1	1		1	1		1	1						
		Bed Room - 1	1	1			1					1		1	1		1		1								
		Bed Room - 2	1	1			1					1		1	1												
		Bed Room - 3	1	1			1					1		1	1												
		Toilet - 1	1		1		1	1								1											
		Toilet - 2	1		1		1																				
		Toilet - 3	1		1		1									1											
		Dress	1				1							1													
		Living Room	1	2			1		1			2		1	2		1		1	1		1					
		Dining Room	1	1			1					1		1	1												
		Varandah/Utility	1				1			2					1												
		Kitchen	1		1		1					1		1	1												
		TOTAL		**7**	**4**	**0**	**13**	**1**	**1**	**2**	**0**	**9**	**0**	**8**	**9**	**2**	**3**	**1**	**2**	**2**	**1**	**1**	**1**	**1**	**0**	**0**	**0**

Name of work : Construction of Eklavya Model Residential School (EMRS) at Village - Fatehpura District - Dahod, Gujrat. (Single Phase)

ABSTRACT OF COST (FURNITURE)

Item No	Specification	Items	Sample Image	Quantity	Unit	Rate	Amount
1	Supplying and installing at site knock down type class room Dual Desk specially designed for rugged use. The dual desk shall be made of ERW M.S. tubular section fitted with pre-laminated particle board top, seat & back with 2mm thick machine pressed PVC egde banding glued with industrial adhesive and diffused with board monolithically alongwith MS hook/hanger for water bottle and bag. All the exposed corners shall be rounded with a fillet/corner radius upto 50mm. The overall appearance of the finished product shall be strictly as per sample photographs attatched: DUAL DESK TOP –18 mm Both Side Laminated (BSL) PreLam Partical Board 400 mm wide BENCH/SEAT TOP – 18 mm BSL PreLam Partical Board 330 mm wide FRONT SHELF – 18 mm BSL PreLam Partical Board 300 mm (Wide). BENCH BACK – 18 mm BSL PreLam Partical Board 250 mm (W). Modesty Panel – 18 mm BSL PreLam Partical Board 300 mm (W). Supporting Understrucure- Left Hand and Right Hand frame consisting of vertical, horizontal and Cross Member made up of 25 mm outer dia x 1.2 mm (wall thickness) ERW tube confirming to IS Grade 4923:1997 and shall be finised with epoxy polyster powder coated finish with DFT 50-60 Micron confirming IS 13871:1993. The support system of Bench and Shelf shall also made up of made up of 25 mm (outer dia) x 1.2 mm outer dia ERW tube confirming to IS Grade 4923:2019 and shall be finised with epoxy polyster powder coated DFT 50-60 Micron confirming IS 13871:1993. Resting support plate made of Table top , provided on the top of vertical members shall be made up of 3mm Thk CRCA Steel sheet Conforming IS: 513:2008. The legs shall be fitted with PVC Leveler. Construction is fully welded with MIG welding and assembled using M6 trilobular screws (As per DIN 7500) with Zn blue plating. Compact top, seat and back panels are assembled using M6 Countersunk Trilobular screws(as per DIN 7500) with Zn Black Plating (As per IS 1573:1986). The Dual Desk shall design shall ensure comfortability in entering, seating and standing during use.	Duel Desk					
1(a)	Dual Desk- Overall Size 1050-1100 mm (W) x 930-940mm (D) x 650mm (H) - Desk Depth 390-400mm. Seat Height 375mm (for Classs 6-8)			96.00	Each	7,100.00	6,81,600.00
1(b)	Dual Desk- Overall Size 1050-1100 mm (W) x 975-985mm (D) x 750mm (H) - Desk Top 400mm. Seat Height 450mm (for Classs 9-12)			160.00	Each	7,600.00	12,16,000.00
2	Supplying and installing at site knock down type Office Table as per approved design and directrion of Engineer-in-charge. Work Top - Work top shall be made 25mm thick Pre-laminated MDF board with decorative lamination on one side and balancing lamination on other side confirming to IS 12406:2003 with post forming on front, back and machine pressed PVC egde banding 2mm thick glued with industrial adhesive and diffused with board monolithically on other two sides. Table top shall have 75mm overhung on front and 25mm overhung on sides. Understructure- C-type leg shall be made of tubular section of 50mm x 50mm x 1.6mm (wall thickness) thick vertical member and 40mm x40mm x1.6mm (wall thickness) Horizontal M.S. pipe confirming IS-Grade 4932 shall be finished with epoxy polyster powder coated DFT 50-60 Micron. The legs shall be fitted to the ground with M8 screw leveler with the height adjustment up to 15mm. The cross members shall be mounted by end brackets made of 3mm thick CRCA steel sheet confirming IS 513: 2008 and finished with epoxy polyster powder coated DFT 50-60 Micron confirming IS 13871:1993. Wire management - Electrical wires shall be carried from horizintal/ vertical duct made of 0.7mm CRCA steel sheet confirming to IS 513:2008. The switch plate or grommet depending upon requirement shall also be provided for electrical/LAN connection on table top. Modesty Panel -Modesty Panel of height 450mm shall be made of 1.5mm thick CRCA sheet sheet confirming to IS 513: 2008 and shall be finised with epoxy polyster powder coated DFT 50-60micron. Storage body- Storage top shall also be made of 25mm thick Pre-lam MDF board confirming to IS 12406:2003 with post forming on two sides and machine pressed PVC egde banding 2 mm thick glued with industrial adhesive and diffused with board monolithically on other two sides. The body of storage units shall be made of 0.8mm thick CRCA steel Sheet and skirting shall be of 1.2mm thick CRCA steel sheet confirming to IS 513: 2008 finished with epoxy powder coated of DFT 50-60 Micron confirming IS 13871:1993. Internal Shelves shall be also made up of 0.8mm CRCA steel sheet confirming to IS 513: 2008 and shall be mounted with the Metal shelf support pin made of 2mm thick CRCA Steel sheet with Nickel or Chrome plating. M10 screw leveler is given with height adjustment up to 12mm to 15mm.	Principal & Vice Principal Table					
2(a)	Table of Size 1800mm (W) x 750mm (D) x 750mm (H) with Side Storage of Size 900mm (W) x 450mm (W) X 750mm (H) and Back Storage 1800mm (W) x 450mm (D) x 750mm (H)	Prinicipal Table		1.00	Each	42,500.00	42,500.00
2(b)	Table of Size 1650mm (W) x 750mm (D) x 750mm (H) with Side Storage of Size 900mm (W) x 450mm (W) X 750mm (H) and Back Storage 1650 mm (W) x 450mm (D) x 750mm (H)	Vice Prinicipal Table		1.00	Each	37,500.00	37,500.00
2(c)	Office table with overall Size of desk 1350mm (L) x 750mm (W) x 750mm (H)& Side Storage Unit of size 900mm (L) x 450mm (W) x 750mm (H)	Office Table		6.00	Each	20,500.00	1,23,000.00
3	Supplying and installing at site knock down type Office Table made of Pre-laminated MDF board with decorative lamination on one side and balancing lamination on other side top of size 1199 X 590 X 735 mm. Worktop shall be rounded in all four corners and should have an overhung of 50mm alongwith one drawer unit made of 0.5mm thick CRCA Steel sheet. The table top shall be supported over legs consists of MS ERW round tube of 25mm dia x 1.2mm (wall thickness) and Cross Horizontal Members including Leg rest of 25mm dia x 1.2mm (wall thickness) M.S. ERW tube. All steel components be shall be finised with epoxy polyster powder coated DFT 50-60micron.	Teacher's table		25.00	Each	4,950.00	1,23,750.00

4	Supplying and installing at site knock down type 12 Seater Meeting Table of of overall size 3600 x 1350 (maximum) x 750 mm (Knock down type). Table Top shall be made of 25mm thick Pre-laminated Partical Board with decorative lamination on one side and balancing lamination on other side whereas the Gable Ends shall be of 25mm thick Pre-laminated Partical Board with decorative lamination on both side alongwith 2mm thick machine pressed PVC edge banding glued with industrial adhesive and monolithically diffused. Supporting Understructure consists of 2 Metal C Legs on either ends of table support frame made of 50mm x 50mm x 1.6 mm (wall thickness) MS ERW tube and One number Wire Carrier leg at middle of 50mm x 50mm x1.6mm (wall thickness), 4 numbers Horizontal connector of 40mm X 40mm X 1.6mm thick MS Pipe between supporting vertical legs. All The MS Pipes and Sheet shall be finished with epoxy powdercoated of DFT 50-60micron. The 'C' typed metal legs shall be kept 150mm inside from outer edge of table top. WIRE MANAGEMENT - The Vertical (stake) & Horizontal (cable tray) wire carriers are placed below worktop, made up of CRCA steel sheet with epoxy powder Coating & Fixed to the understructure with specially designed brackets, including provision of placing switch plates/grommet in the cable tray .	Meeting Table		2.00	Each	38,150.00	76,300.00
5	Supply and Istallation of Library Table in sizes of 2400mm (L) x 900mm (W) x 750mm (H) consisting of follwing specification:- Work Top - Work top shall be made of 25mm thick Pre-laminated Partical Board with decorative lamination on one side and balancing lamination on other side confirming to IS 12823: 1990, alongwith 2 mm thick Machine pressed PVC edge banding glued with industrial adhesive and monolithically diffused with board on exposed edges. Understructure Supporting frame shall consists of Three Metal C-Legs (two at either ends and one in middle of table) and joined by two numbers Horizontal connector made of tubular section 40mm x 40mm x 1.6mm (wall thickness) confirming to IS 4923:1997. The entire metal frame shall be finised with epoxy polyster powder coated DFT 50-60 Micron. C-typed metal legs shall be kept 150 mm inside from from end of table. Legs shall be fitted to the ground with M8 screw leveler with the height adjustment up to 12mm to 15mm.	Library Table		10.00	Per Unit	12,000.00	1,20,000.00
6	Supplying and installing at site knock down type Dual Computer Work Station of unit Size 1500mm (L) x 600m (W) x 750mm (H) for two students Work Top- Work top shall be made 25mm thick Prelam particle board with decorative lamination on one side and balancing lamination on other side confirming to IS 12823: 1990 with 2mm thick Machine pressed PVC edge banding glued with industrial adhesive and monolithically diffused with board on all sides. Understructure supporting frame consist of 2 Metal C Legs on either ends of table support frame made of 50mm x 50mm x 1.6 mm (wall thickness) MS ERW tube and One number Wire Carrier leg at middle of 50mm x 50mm x1.6mm (wall thickness), 4 numbers Horizontal connector of 40mm X 40mm X 1.6mm thick MS Pipe between supporting vertical legs. The MS Pipes shall be finished with epoxy powdercoated with DFT of 50-60 Micron confirming to IS 13871:1993. The legs shall be fitted to the ground with M8 screw leveler with the height adjustment up to 15mm. Wire management-The Vertical /Electrical duct & Horizontal Cable tray (wire carriers) are made of CRCA steel sheet & fixed to the understructure below worktop with specially designed brackets. Provision for fixing Switch plates are privided in the cable tray for easy access through wire mangaer or PVC grommet. Screens / privacy panel: - Screen height will be 300mm above work-top made of prelam particle board/White Board alternatively as approved by Engineer-in-Charge. In addition privacy panel of 300 mm height, on work top, shall be provided between two workstation.	Computer Work Station		18.00	Per dual Unit	17,000.00	3,06,000.00
7	Supply and Istalltion of Library Open book Shelf (Single Side) of Sizes 1800mm (H) x 900mm (W) x 316mm (D) body and shelves shall be made up of 0.8mm thick CRCA steel Sheet and skirting of 1.2mm thick CRCA steel sheet confirming to IS 513: 2008 and fixed with CRCA steel sheet brackets of approved design finished with epoxy powder coated finish (DFT minimum 50-60 micron). Number of adjustable shelf shall be five with six loading levels . Load bearing capacity of the shelf shall be 30Kgs UDL. The construction shall be aesthetically appealing completely welded. M10 screw leveler with height adjustment up to 15mm shall be provided at bottom end of legs.	One Side book Shelf		10.00	Each	12,500.00	1,25,000.00
8	Supply & Placing of Glass-door Storage of Size 916 mm (W) x 486mm (D) x 1980mm (H). It should have shelf thickness of 0.7mm, Back thickness of 0.8mm, Door thickness of 0.8mm (high yield strength) with clear glass of 3.0mm thick and all other components shall have a thickness of 0.9mm. These components shall be made of CRCA steel sheet 'D' grade high yield strength as per IS 513:2008 The glass door storwel shall have a SS handle and a Two-way locking mechanism with shooting bolt. It should have a height-wise adjustable shelf mounting which shall have a Uniformly Distributed Load Capacity of max 40 Kg. It should also have a M10 Screw type Leveller with Hex plastic base.All metal components would be epoxy polyster powder coated DFT 50-60 Micron confirimg to IS 13871:1993	Steel Glass Door Almira		6.00	Each	24,000.00	1,44,000.00
9	Supply & Placing of Metal Almirah of Size 916mm (W) x 486mm (D) x 1980mm (H). It should have the shelf thickness of 0.7 mm, Back thickness of 0.8mm, Door thickness of 0.8mm (high yield strength) and all other components shall have a thickness of 0.9mm. These components shall be made of CRCA steel sheet 'D' grade high yield strength as per IS:513. The Storwel Plain should have a suitable handle and Three-way locking mechanism with Shooting Bolts. It should have a height wise adjustable shelf mounting which shall have a Uniformly Distributed Load Capacity of max 40 Kg. It shall have 4 no.s full shelves. A4 size box file(85 W x 285 D x 345 H mm) can be stored vertically on three shelves and the clear space above fourth shelf is 240mm. It should also have a M10 Screw type Leveller with Hex plastic base. All metal components would be powder coated with epoxy powder coating of 50-60 micron DFT Confirming IS 13871:1993	Steel Almira		10.00	Each	21,000.00	2,10,000.00

10	Supply and Istallation of 5- Seater sofa consisting of one number 3-Seater Sofa of overall size (1950mm x 785mm x 750mm) and one number 2-Seater Sofa (1550mm (W) x 785mm (D) X 750mm (H), under-structure is made up of Natural Hard wood battens and 12mm THK COMMERCIAL PLYWOOD. High density foam shall be used for seat and back. The seat is made up of PU foam with density 32±2 Kg/m3 having an additional top layer of PU foam with density 28±2 Kg/m3, upholstered with leatherette. The back is made up of PU foam with density 28+/-2 Kg/m3 with additional top layer of PU foam with density 23+/-2 Kg/m3, upholstered with leatherete. LEATHERITE -ABRASION RESISTANCE in excess of 80,000 cycles, 600 to 650 GSM. Legs shall be made Mild Steel (MS) powder coated with minimum 50-60 micron DFT confriming IS 13871:1993	One Set of 5 Seater Sofa (1-3 seater &1-2 seater)		1.00	Per Set	59,000.00	59,000.00
11	Supply and Installation of 4-seater sofa consisting of two number 2-Seater Sofa (1550mm (W) x 785mm (D) X 750mm (H), understructure is made up of Natural Hard wood battens and 12mm THK COMMERCIAL PLYWOOD. High density foam is used for seat and back , The seat is made up of PU foam with density 32±2 Kg/m3 having an additional top layer of PU foam with density 28+/-2 Kg/m3, upholstered with leatherette. The back is made up of PU foam with density 28±2 Kg/m3 with additional top layer of PU foam with density 23+/-2 Kg/m3, upholstered with leatherette. LEATHERITE - ABRASION RESISTANCE in excess of 80,000 cycles, 600 to 650 GSM. Legs shall be made Mild Steel (MS) powder coated with minimum 50-60 micron DFT confriming IS 13871:1993	One Set of 4 Seater Sofa (2-2 seater)		2.00	Per Set	55,000.00	1,10,000.00
12	Supply and installation of Steel bed of overall size 1775-1825mm (L) x 875mm (W) x 650/450mm (H) consisting of following specification:- HEADBOARD: Head Board consists of MS tube of 25 x 50 x 1.6 mm thick vertical legs connected with 2 number horizontal members of MS ERW tube 25mm x 50m x 1.6mm (wall thickness) and one number MS ERW tube of 25mm x 25mm x 1.6mm (wall thickness) at middle confirming to IS 4923:1997. The construction is partially welded with MIG welding confirming to IS standard IS 816:1969 and is also tested as per the IS grade IS 822:1970. Legs shall be fitted to the ground with M8 screw leveler with the height adjustment up to 12mm to 15mm, if required. Head Board and Tail board are connected to middle frame with 2 mm thick CRCA bracket confirming to IS 513: 2008.Connecting bracket is welded on vertical pipe. End to end dimensions for the Headboard is 875mm (W) x 650mm (H). Whole Assembly is finished with epoxy powder coated of a minium thickness of DFT 50-60 Micron confirming to IS 13871:1993. TAILBOARD-Tail Board consists of vertical legs of MS ERW tube of 25x50x1.6mm thick connected with one number horizonal MS pipe 50x25x1.6mm thick Conforming IS 4923:1997. Construction is partially welded with MIG welding confirming to IS standard IS 816:1969 and welding is also tested as per the IS grade IS 822:1970. Legs shall be fitted to the ground with M8 screw leveler with the height adjustment up to 12mm to 15mm if required .To connect Tailboard with middle frame 2mm thick CRCA sheet bracket is used conforming IS 513: 2008 . Connecting bracket is welded on vertical pipe. End to end dimensions for the Tailboard is 875mm (W) x 450mm (H). The whole assembly shall be finished with epoxy powder coated of a minium thickness of DFT 50-60micron confirming to IS 13871:1993. Bed Stagging– Head board and Tail boad are joined togather by bed stage made up of 12 mm Merine grade ply supported over steel framework consisting of two outer MS ERW Pipe 25x50x1.2mm thick and 04 numbers cross braccing of MS ERW pipe of 25x25x1.2mm thick in middle conforming IS 4923:1997 and welded to each other by MIG welding. End to end dimensions for the middle frame is 1725-1775(L)x825mm(W) for mattress size of 1725-1775 x 800 mm. FINAL ASSEMBLY: Headboard, Tailboard, and middle frame shall be assembled and connected by 4 Nos of connecting Brackets & M8x16 Allen Bolt. The bed stage shall be 10-12 mm below side frame to provide proper fixity to mattress. End to end dimensions for the bed is 1775-1825 (L)x875(W)x650/450mm(H). Finish- All metal components are given anti-rust surface treatment and are finised with epoxy polyster powder coated DFT 50-60 Micron confirming to IS 13871:1993. **(Note- The overall sizes of bed shall be kept 1825mm x 875mm (to fit a mattress of size 1775mm x 800mm). However, the same shall be ascertained and not approved by engineer in charge as per actual room layout, position**	Metal Bed		486.00	Each	8,500.00	41,31,000.00
13	Supplying and installing at site knock down type Metal Table with Integrated Storage 1750mm (L) x 600mm (W) x 750mm (H) for two students Work Top Shall be made up of 25mm thick Prelam (OSL) particle board confirming to IS 12823: 1990 with 2mm thick Machine pressed PVC edge banding glued with industrial adhesive and monolithically diffused with board on all sides. Supporting Strucure of table top consits of 4 vertical Legs of ERW M.S. tube 40 x 40 x 1.6 mm and one storage unit at middle. The vertical legs are connected with 2 cross horizontal members of size ERW M.S.Tube of 40 x40 x 1.6 mm provided at top. The table shall have provisions of foot-rest made up of 25mm x 25mm x 1.2mm ERW M.S. pipe fitted in between two vertical legs and also support the storage unit & acts as bracing member. All ERW pipes shall confirm to IS 4923: 1997 and shall be finised with epoxy polyster powder coated DFT 50-60 Micron Confirming IS 13871:1993. Drawer Unit: SPECIFICATIONS :- Table shall have 2 numbers of Metal Storage consiting of Shutter of size consiting of 350 (W) x 550 (D) x 280 (H) mm with provision for Pad Lock. All metal component including shutter and Shelf shall be made of 0.8 mm thick CRCA steel sheet confirm to IS 4923 : 1997 and shall be powder coated with epoxy powder coating of DFT 50-60 Micron Confirming IS 13871:1993.	Metal Table with Integrated Storage 1750(L) x 600(W) x 750(H).		240.00	Each	9,500.00	22,80,000.00
14	Supplying and installing at site knock down type SS Dinning Table consists of Dinning Top made up of 1mm thickness Stainless steel sheet of SS 304 Grade with overall dimension of 2400mm (L) X 760mm (D) X 750mm (H). The table top shall be reinforced with a 18mm thick HDHMR Board. Dinning top sheet shall be extended to the sides for a depth upto 24 mm under the table top in all directions including , edge rounding, grinding and finishing ,etc all complete . The Table top shall finish in such a manner to avoid any sharp edges. Supporting understrucure of table consists of 4 numbers C- Leg frame made up of MS ERW tube 40mm x 40 mm x 1.6 mm and are connected to 6 numbers horizontal members of MS ERW tube 25 x 25 x 1.6 mm. Stool Seats shall be made of 300mm dia SS 202 Grade formed Plates of 1mm thick resting over 12mm HDHMR which in turn supported over 3mm thick MS Plate welded to vertical supporting leg. The supporting vertical member of each stool seat consists of MS ERW tube 40mm x 40 mm x 1.6 mm and is connected to C-legged frame of table top. All Metal components of entire assembly confirm to IS 4923: 1997. Both the horizontal and vertical pipes are welded together by MIG welding confirming to IS standard IS 816:1969 and is tested for welding confirming to IS 822:1970. All CRCA Steel componets shall be finised with epoxy polyster powder coated DFT 50-60 Micron confirming IS 13871:1993. The understructure height shall be 725mm from the ground and stool shall height of 500mm from the ground & foot rest structure of MS ERW tube of 40 x40 x 1.6 mm , shall be 125mm from ground.	8 Seater SS Top Fixed Canteen Table 2400 x 750		4.00	Each	41,000.00	1,64,000.00

15	Supplying and installing at site knock down type SS Dinning Table consists of Dinning Top made up of and 1mm thickness stainless steel sheet of SS 304 Grade with overall dimension of 1800mm (L) x 760mm (D) x 750mm (H). The table top is rainforced with a 20mm HDHMR Board. Dinning top sheet shall be extended to the sides for a depth of 24 mm in all directions including , edge rounding, grinding and finishing ,etc all complete . The Table top shall finish in such a manner to avoid any sharp edges. Supporting understrucure of table consists of 3 numbers Leg frame made up of 40mm x 40mm x 1.6mm M.S. ERW tube and are connected to 4 numbers horizontal members of MS ERW tube 25mm x 25mm x 1.6 mm. Stool Seats are made of 300 mm dia SS 202 Grade formed Plates of 1 mm thickness resting over welded 12 mm HDHMR which in turn supoorted over 3 mm thick MS Plate weled to vertical supporting leg. The supporting vertical member of each stool seat consists of MS ERW tube 40mm x 40 mm x 1.6 mm and is connected to C-legged frame of table top. All Metal components of entire assebmly confirm to IS 4923: 1997. Both the horizontal and vertical pipes are welded together by MIG welding confirming to IS standard IS 816:1969 and is tested for welding confirming to IS 822:1970. All CRCA Steel components shall be finishded with epoxy polyster powder coated DFT 50-60 Micron confirming IS 13871:1993. Understructure height will be 725mm from the ground, the stool height will be 500mm from the ground foot rest structure	6 Seater SS Top Fixed Canteen Table 1800 x 750		30.00	Each	36,000.00	10,80,000.00
16	Supply and installation of Lab Stool Seat made up of 300 mm dia SS 202 Grade formed Plates of 1 mm thickness welded over 3 mm thick MS Plate and 12 mm HDHMR Board . The Stool seat is supported by four legs 25mm dia x 1.6 mm M.S. round Pipe. Height of stool shall be 540mm from the floor. The legs shall be provided with PU/PVC leveller at the bottom and finished with epoxy powder coated finish (DFT 50-60 Micron) Confirming IS 13871:1993.	Lab Stool		93.00	Each	2,300.00	2,13,900.00
17	Supplying & placing in position High back Executive Chair as per indicative photograph and specification: i) SEAT/BACK ASSEMBLY: The seat and back should be made up of 12 ±1mm. thick hot-pressed plywood and upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam should be designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. BACK SIZE 47.5 cm. (W) x 69.5 cm (H) SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D) ii) HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR polyurethane foam should be moulded with density = 45±2 kg/m3 and hardness load 16 ± 2 kgf for 25% compression. iii) ARMRESTS :The one-piece armrests should be injection moulded from black Co-polymer Polypropylene. iv) CENTER TILT SYNCHRO mechanism: The mechanism should be designed with the following features: • 360° revolving type. • Upright-position locking • Tilt tension adjustment • Seat/back tilting ratio of 1:3. v) PNEUMATIC HEIGHT ADJUSTMENT: The pneumatic height adjustment has an adjustment stroke of 12.0 ±0.3cm. vi)TELESCOPIC BELLOW ASSEMBLY The bellow should be 3 piece telescopic type and injection moulded in black Polypropylene. vii) PEDESTAL ASSEMBLY:The pedestal should be injection moulded in black 33% glass-filled Nylon-66 and fitted with 5 nos. twin wheel castors. The pedestal should be 66.3 ±0.5cm. pitch-center dia. (76.3 ±1.0cm with castors). viii)TWIN WHEEL CASTORS: The twin wheel castors should be injection moulded in Black Nylon.	High Back Chair		1.00	Each	10,888.00	10,888.00
18	Supplying & placing in position medium back Executive Chair as per indicative photograph and specification: i) SEAT/BACK ASSEMBLY: The seat and back should be made up of 1.2 ±0.1cm. thick hot-pressed plywood and upholstered with .fabric upholstery covers and moulded Polyurethane foam. The back foam should be designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area BACK SIZE 47.5 cm. (W) x58.0 cm (H) SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D) ii) HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR polyurethane foam should be moulded with density = 45±2 kg/m3 and hardness load 16 ± 2 kgf for 25% compression. iii) ARMRESTS :The one-piece armrests should be injection moulded from black Co-polymer Polypropylene. iv) CENTER TILT SYNCHRO mechanism: The mechanism should be designed with the following features: • 360° revolving type. • Upright-position locking • Tilt tension adjustment • Seat/back tilting ratio of 1:3. v) PNEUMATIC HEIGHT ADJUSTMENT: The pneumatic height adjustment has an adjustment stroke of 12.0 ±0.3cm. vi) TELESCOPIC BELLOW ASSEMBLY : The bellow should be 3 piece telescopic type and injection moulded in black Polypropylene. vii) PEDESTAL ASSEMBLY:The pedestal should be injection moulded in black 33% glass-filled Nylon-66 and fitted with 5 nos. twin wheel castors. The pedestal should be 66.3 ±0.5cm. pitch-center dia. (76.3 ±1.0cm with castors). viii)TWIN WHEEL CASTORS:The twin wheel castors should be injection moulded in Black Nylon.	Medium Back Chair		1.00	Each	9,734.00	9,734.00
19	Supplying & placing in position visitor Chair as per indicative photograph and specification: i) SEAT/BACK ASSEMBLY: The seat and back should be made up of 12 ±1mm. thick hot-pressed plywood and upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam should be designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area.BACK SIZE 47.5 cm. (W) x58.0 cm (H) SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D) ii) HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR polyurethane foam should be moulded with density 45±2 kg/m3 and hardness load 16±2 kgf for 25% compression. iii) ARMRESTS :The one-piece armrests should be injection moulded from black Co-polymer Polypropylene. iv) TUBULAR FRAME: The powder coated (DFT 50-60 Micron) pressed tubular frame should be cantilever type & made of 25±2 mm. x 2mm (thick) M.S. ERW Tube.	Visitor Chair		53.00	Each	7,371.00	3,90,663.00

20	Supplying & placing in position chair with MOULDED PLY SHELL: The seat & back is made up of moulded ply in Veneer or Laminate finish in single piece of Shell size - 420 mm (W) X 410 mm (D) X 440 (H) X Thickness 12 mm. UNDER STRUCTURE: The Understructure is made up of dia. 25.4 ±0.3mm. x 1.6mm thick M.S. E.R.W. tube supporting frame in C-shape and welded to 250mm x 250mm x 2mm thick MS plate welded at seat level to support seat with necesary fixing arrangement . The framework shall be epoxy coated having DFT 50-60 Micron. The leg at bottiom shall be fitted to rubber bush.	Chair without arm		480.00	Each	2,400.00	11,52,000.00
21	Supplying & placing in position in position Wooden chair of Dimension - 480W x 420D x 820H UNDERSTRUCTURE:The Understructure is made from Hot pressed rubber wood. BACKREST: The backrest is made up of plywood and foam upholstered with polyester fabric. SEAT:The seat is made up of 12mm thick (7 layers) hot pressed plywood and moulded seat foam upholstered with fabric. SEAT FOAM: Foam made out of moulded Polyurethane foam with the following properties: • Density (IS-7888-1976) : 50-55 Kg/m3.• Hardness: 28+/-3 Kgf.• Compression set (IS-7888-1976): 10% Max.• Tensile strength (IS-7888-1976): 0.9-1.2 Kg/cm2• Tear strength(Min) (IS-8067) : 0.6 Kg/cm(min)• Resilience (IS-7888-1976): 40% - 60% • Elongation (IS-7888-1976): 110 % GLIDE:The glide is made from Nylon. SEAT AND BACK FABRIC PROPERTIES: Content: 100% Polyester 170 GSM Abrasion Resistance:Over 30000 cycle.Bursting Strength: 19.1 kg/cm²Tear Strength (NF).	Chair without arm		80.00	Each	3,150.00	2,52,000.00
22	Supplying & placing in position in position Steel chair as per specifcation detailed below:- 1)SEAT/BACK ASSEMBLY: The seat and back should be made from 10±0.01mm. thk. hot pressed ply and should be true resistant tant commercial plywood and upholstered with P.U. foam and fabric. BACK SIZE: 420 mm. (W) X 265mm (H) SEAT SIZE: 420mm. (W) X 420mm. (D) 2)HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR Polyurethane foam should be moulded with density =45+1-2 kg/m3 and Hardness load 16 ± 2 kgf for 25% compression. 3)UNDERSTRUCTURE ASSEMBLY : The assembly should be a mainframe made of 25.4 ±0.3mm. x 1.6mm thick M.S. E.R.W. tube and a welded leg tube made of dia. 25.4 ±0.3mm. x 1.6mm thick M.S. E.R.W. tube .to the form the complete assembly which should be black powder coated (DFT 50-60 Micron). **Note-Colour of fabricc may be decised by engineer-incharge considering overall colour scheme.**	Chair without arm		61.00	Each	3,150.00	1,92,150.00
23	Supplying and installing in position Metal Lockers with Cam Lock one unit consiting of 381mm (W) x 381mm (D) x 1831mm (H) with 4 Lockers. Body-LH and RH Side and back panel is made up of 0.8mm thick CRCA steel sheet confirming to IS 513:2008 which is having standard dimension 1831 x380mm. Shelf hanging bracket is welded on both the side panel by spot welding. Shelf hanging bracket is made up of 0.8mm thick CRCA steel sheet confirming to IS 513:2008. front frame, top and bottom part made up 0.8mm thick CRCA steel sheet confirming to IS 513:2008 and horizontal part is made up 1mm thick CRCA Steel sheet confirming to IS 513:2008. On a front frame horizontally provision is given at a common distance to hold shutter bracket. Locker's top is made up of 0.8mm thick CRCA Steel sheet confirming IS 513:2008 which is having standard dimension 375 x378mm. Shelf is also made up of 0.8 mm CRCA Steel sheet confirming to IS 513:2008. Shutter- Is made up on 0.7mm thick CRCA Steel sheet confirming to IS 513:2008. All the shutter are hung on shutter pin and shutter bracket, louvers are given in shutter for air flow. PVC flush handle and name plate is used for handling and for name plate tagging. Standard locking arrangment is used for locking each shutter. The bodies including shelves are given anti-rust surface treatment & are powder coated with epoxy polyester powder coating of DFT 50-60 Micron confirimg to IS 13871:1993.	Personal Locker Unit		8.00	Each	10,850.00	86,800.00
24(a)	Supplying and installing in position Super White' writing grade resin coated steel writing surface conforming to International Standards, 100% smooth and 100% scratch-free surface and shall have magnetic property for sticking magnets or magnet impregnated objects. Frame- Satin-finish alloy aluminum (6063-T6) frame and precision engineered paper honeycomb core to make the board 100% warp-free and 100% flat. Can be mounted in landscape as well as portrait orientation on a wall with the help of built-in wall hanging clips Excellent erasibility with no ghost-marks, high scratch-resistance with easy-wipe properties and maximum readability with minimum glare makes Material: Resin Coated Steel Writing Surface, Alloy Aluminum Frame, Paper Honeycomb Core & Virgin ABS Corners. Size of the board: 1750 mm x 1150 mm	Magnetic White Board		4.00	Each	10,300.00	41,200.00
24(b)	Supplying and installing in position 'Green' writing grade melamine writing surface (chalk sheet) conforming to IS:2046/1997, with 100% clean and 100% scratch-free surface. Frame- Satin-finish alloy aluminium (6063-T6) frame and precision engineered paper honeycomb core to make the board 100% warp-free and 100% flat. Can be mounted in landscape as well as portrait orientation on a wall with the help of built-in wall hanging clips Excellent erasibility with no ghost-marks, high scratch-resistance with easy- wipe properties, maximum readability with minimum glare and minimum chalk dust formation with clean & continuous lines of chalk. Works well with all standard chalk sticks	Melamine Surface Non-Magnetic Chalk Board-2350 X 1150 mm'		22.00	Each	8,500.00	1,87,000.00
25	knocked down glass top rectangular centre table with a single storage shelf of 8 mm tempered glass located in the bottom portion shape supported by a set of four legs. The table's top is made of 10 mm tempered glass, while the frame and legs are constructed from other wood materials. The understructure supporting the top, as well as the storage compartment, are also made of wood, and the shoes/buffers are made of nylon. The dimensions of the table are approximately 1000mmX650mmX430 mm. The legs measure 35mm x 35mm and the understructure support material has a thickness of 8 millimeters. The legs are connected at the adjacent sides with four buffers/shoes at the bottom of the legs. The table top has a walnut finish	Tea Table of Size 1000 x 650 x 450 mm		3.00	Each	9,800.00	29,400.00

26	Supply & installtion of Physics Lab Table of size 1800(L) x 1000(W) x 860(H) with specification as under: Work Top Shall be made up of 25mm thick Prelam (OSL) HDHMR Board confirming to IS 12823: 1990 with post formed edge moulding on Two side and 2 mm thick Machine pressed PVC edge banding glued with industrial adhesive and monolithically diffused with board on other two sides. Supporting Strucure of table top consits of 4 vertical Legs of ERW tube 50 x50 x 1.6 mm and one storage unit at middle. The vertical legs are connected with 2 lateral and 2 longitudinal cross members of size ERW Tube of 40 x 40 x 1.6 mm provided at top and 2 lateral cross members of size 40x40x1.6 mm. The table shall have provisions of foot rest made up of 25 x25 x1.2 mm ERW pipe fitted in between two vertical legs and also support the storgae unit & acts as bracing member. All ERW pipes shall confirm to IS grade IS 4923 and shall be finised with epoxy polyster powder coated DFT 50-60 Micron Confirming IS 13871:1993. Drawer Unit: - Table shall have 4 numbers of Metal Storage consiting of Shutter of size consiting of 350 (W) x 450 (D) x 350 (H) mm with Pad Lock provision . All metal component including shutter and Shelf shall be made of 0.8mm thick	Physic Table Size of 1800(L) x 1000 (W) x 860(H)		6.00	Each	21,000.00	1,26,000.00
							1,37,21,385.00
					GST @12% on X	**A**	16,46,566.20
					Amount including GST @ 12%	**B = (X+A)**	1,53,67,951.20
					Contractor Margin 15% on B	**C**	23,05,192.68
					Total Amount including CPOH 15%, 12% GST	**(B+C)**	**1,76,73,143.88**
						Say	**1,76,73,144.00**

ABSTRACT OF COST (Kitchen Machinery)								
S. No.	**CODE**	**Description of works**	**SIZE**	**Quantity**		**Sample Image**	**BASIC UNIT RATE (without GST) (in Rs.)**	**Amount**
1	**01**	SITC of SS One Burner STOCK POT RANGE Comprising: 16Ga. SS 304 GR Top, Body 20 Ga. 304 GR SS, 1 no. 400mm x 400mm Cast iron pan support, 1 no. burner with pilot lamp, 1 no. 20 Ga. SS drip tray with handle, 38mm SQ 16 Ga. SS pipe legs. With adjustable bullet feet. 100mm setback Body/legs for Gas pipe routing.	24 X 24 X 26 (inches)	3	Nos.		**11,200.00**	**33,600.00**
2	**02**	SITC of SS 2 BURNER INDIAN COOKING RANGE Comprising: 16Ga. SS 304 GR Top, Body 20 Ga. 304 GR SS, 2 no. 400mm x 400mm Cast iron pan support, 2 no. burner with pilot lamp, 2 no. 20 Ga. SS drip tray with handle, 38mm SQ 16 Ga. SS pipe legs. With adjustable bullet feet.	44 X 24 X 34 (inches)	1	No.		**22,500.00**	**22,500.00**
3	**03**	SITC of SS SINGLE SINK UNIT Comprising: 16 Ga. SS 304 GR Top, 150mm High Rear splash, Top provided with One (1) no. 450mm x 450mm x 250mm deep of 16 Ga. S.S. 304 GR Sink Complete with 50mm dia lever handle operated waste outlet, 38mm SQ 16 Ga. SS legs. With adjustable feet. With three side	24 X 24 X 34+6 (inches)	1	No.		**12,000.00**	**12,000.00**
4	**04**	SITC of SS TILTING TYPE BULK COOKER Comprising: Inner Cell of bottom 4 mm & side wall 1.5 mm thick Stainless Steel 304 grade, Outer wall- made of 18 GA SS 304 grade, Lid - 18 GA SS 304 grade with Heavy Duty Spring loaded for Easy open & close with SS Handle, Panels - made of 20 GA SS 304 grade, Stand - SS Pipe 50mm x 50mm,16GA. Tilting arrangement - On wheel with Gear arrangement and Interlock Brake. For Water - One Swivel Type Sink Cock fitted with SS pipe Long Nipple to Connect Existing Water Point.	200 LTRS (Capacity)	1	No.		**79,000.00**	**79,000.00**
5	**05**	SITC of SS TILTING TYPE BOILING PAN Comprising: Inner Cell of bottom 4 mm & side wall 3 mm Stainless Steel 304 grade, Outer wall- made of 18 GA SS 304 grade, Lid - 18 GA SS 304 grade with Heavy Duty Spring loaded for Easy open & close with SS Handle, Panels - made of 20 GA SS 304 grade, Stand - SS Pipe 50mm x 50mm,16GA. Tilting arrangement - On wheel with Gear arrangement and Interlock Brake. For Water - One Swivel Type Sink Cock fitted with SS pipe Long Nipple to Connect Existing Water Point. 3 no. “RV” type burner with pilot lamp	200 LTRS (Capacity)	1	No.		**75,000.00**	**75,000.00**

6	**06**	SITC of SS SPICE TROLLY Comprising: 16 Ga.304 SS Top all side turned up 50mm, Two (2) no Full width 18 Ga. SS 304 grade Bottom shelves.Four (4) no. 100mm dia uprights on Castors.	18 X 24 X 34 (inches)	2	No.		**11,000.00**	**22,000.00**
7	**07**	SITC of SS WORK TABLE WITH 1 Bottom Shelf Comprising: 16 Ga. 304 SS Top. All sides turned down 50mm & in 12mm. 18 Ga. SS 304 Bottom shelves. Four (04) no. 38mm sq SS legs. With adjustable bullet feet.	44 X 24 X 34 (inches)	7	No.		**11,500.00**	**80,500.00**
8	**08**	SITC of CHAPATI HOT PLATE Comprising: Full 12 mm thick MS Plate with LHS puffer plate, Exterior 20 Ga. SS 304 cladding, Built-in pressure Controller regulator, 38mm SQ 16 Ga. SS pipe legs with adjustablebullet feet, Four (4) no. "RV" type burner with pilot lamp Smooth Plate.	52 X 26 X 34 (inches)	2	No.		**34,500.00**	**69,000.00**
9	**09**	SITC of SEMI AUTOMATIC CHAPATI MAKING MACHINE Comprising: Gas operated, with all gas fiitings, burners and necessary electric motor of rating 0.75 KW, 220V ISI mark all complete.	800 Pcs /Hrs (capacity)	1	No.		**2,23,000.00**	**2,23,000.00**
10	**10**	SITC of CONVEYOR TYPE TOASTER Comprising: SS 20 GA body with necessary electrical motor and heating element of Power : 1.5 kw, 220V etc with timer controllar all complete ISI marks.	120-150Pcs /Hrs (Capacity)	2	Nos.		**33,000.00**	**66,000.00**
11	**11**	SITC of SS 4 DOOR VERTICAL CHILLER Comprising: Exterior/Interior wall of 20 Ga. 304 grade SS cladding, Internal temp range from 0 Deg to + 4 Deg Celsius, With doors 20 GA Inside and 18 GA. 304 grade SS outside Four (4) Nos. half size Insulated self closing type SS doors, complete with handle, gasket, Compressor (Emerson or equivalent make) & Controls 1 KW-220 V AC with adjustable bullet feet.	48 X 28 X 78 (inches) 900 LTRS capacity	2	Nos.		**1,08,000.00**	**2,16,000.00**

12	**12**	SITC of DEEP FREEZER: 50mm thick PU foam on all sides with plastric material body. Brand - Voltas or equivalent rating 1 KW 220 V AC all complete as per manufacturer specifications	500 LTRS (Capacity)	1	No.		**35,000.00**	**35,000.00**
13	**14**	SITC of DRY MASALA GRINDER Comprising: SS Jar of Capacity 5 kg, with electric motor of Power rating : 1/2 Hp, 220V of ISI mark all complete as per manufacturers specification .	5 KG (Capacity)	1	No.		**17,000.00**	**17,000.00**
14	**15**	SITC of PULVERISER Comprising: 20 GA SS body, electrically operated with electric motor of Power : 2 HP, 220V of ISI mark, etc all complete as per manufacturer specifications.	2 HP	1	No.		**15,500.00**	**15,500.00**
15	**16**	SITC of DOUGH KNEADER- Comprising: 16 GA bowl of SS and 20 GA SS body, electrically operated with motor of Power : 2 HP, 220V of ISI mark, etc all complete as per manufacturer specifications.	20 LTRS (Capacity)	1	No.		**52,000.00**	**52,000.00**
16	**18**	SITC of SS 6 VESSEL HOT BAIN MARIE WITH 1/1 Gastro-Norm PAN WITH FRONT TRAY RAIL Comprising: 16 Ga. SS 304 Grade Top, 1No tank 16 Ga.304 SS grade Bain Marie complete with water outlet, 4.0 k.w. heating element, 6 no. Gastro-Norm 1/1 Pan, 150mm deep with lid, Front Pipe Trai Rail, Full length 18 Ga. SS 304 grade Bottom shelve, Electrical panel complete with thermostat, on-off switch & light indicator with 4 No. 38mm sq. pipe 16 GA SS	84 X 26+12 X 34 (inches)	2	Nos.		**52,000.00**	**1,04,000.00**
17	**18A**	SITC of SS 6 VESSEL HOT BAIN MARIE WITH 1/1 Gastro-Norm PAN WITH FRONT TRAY RAIL Comprising: 16 Ga. SS 304 Grade Top, 6 no. Gastro-Norm 1/1 Pan, 150mm deep with lid, Front Pipe Trai Rail, Full length 18 Ga. SS 304 grade Bottom shelve, with 4 No. 38mm sq. pipe 16 GA SS legs with adjustable	84 X 26+12 X 34 (inches)	2	Nos.		**42,000.00**	**84,000.00**

18	**19**	SITC of PLATFROM TROLLY Comprising: 16 GA 25 mm dia SS 304 grade pipe pulling/pushing arrangement, 16 GA.304 SS platform Top all side turned down 50mm, Four (4) no. 100mm dia uprights on Castors.	34 X 24 X 34 (inches)	3	Nos.		**14,500.00**	**43,500.00**
19	**20**	SITC of KITCHEN UTILITY TROLLY Comprising: 16 GA 25 mm dia SS 304 grade pipe pulling/pushing arrangement, 16 GA.304 grade SS top all side turned up 50mm, Two (2) no Full width 18 Ga. SS 304 grade Bottom shelves with Four (4) no. 100mm dia uprights on Castors all complete.	34 X 24 X 34 (inches)	2	Nos.		**16,000.00**	**32,000.00**
20	**21**	SITC of SS POT RACK - 4 SHELF Comprising: Four (4) nos 20mm x 20mm x 16 Ga. SS squre pipe Grade 304 SS Shelves welded to SS square pipe uprights with 38mm x 38mm x 16GA 304 grade SS squre pipe, upright with adjustable bullet feet all complete.	60 X 30 X 66 (inches)	2	Nos.		**28,450.00**	**56,900.00**
21	**22**	SITC of SS STORAGE RACK - 4 SHELF Comprising: 18 Ga. 304 grade SS Shelves four (4) nos with frame of four nos. vertical angles size 38 x38x 3 mm of SS grade 304 all complete.	44 X 16 X 66 (inches)	6	Nos.		**14,500.00**	**87,000.00**
22	**23**	Supplying of HDPE PALLET of capacity 2200 to 2500 kg,	48 X 40 X 8 (inches)	4	Nos.		**7,000.00**	**28,000.00**

23	**24**	SITC of POTATO PILLER Comprising: 20 GA SS body, electrically operated with electric motor of Power : 2 HP, 220V of ISI mark, all complete as per manufacturer specifications.	20 KG (Capacity)	1	No.		**38,000.00**	**38,000.00**
		KITCHEN VENTELATION SYSTEM						**-**
24	**V1**	SITC of SS HOOD WITH SS FILTER Comprising: 22 GA. SS Welded Body Construction, with Removable 20 GA. SS "V" section filters set in continuous channel, to be suspended on ceiling with hanger rods of sufficient capacity all complete.	54 X 30 X 24 (inches)	1	No.		**20,000.00**	**20,000.00**
25	**V2**	SITC of SS HOOD WITH SS FILTER Comprising: 22 GA. SS Welded Body Construction, Removable 20 GA. SS "V" section filters set in continuous channel, To be suspended on ceiling with hanger rods of sufficient capacity all complete.	36 X 30 X 24 (inches)	3	Nos.		**13,000.00**	**39,000.00**
26	**V5**	SITC of GI DUCTING FOR HOT AIR SUCTION Comprising: 22 GA. GI sheet ducting as per requiremt as site requirement all complete.	46 SQM	46.45	SQM		**1,388.00**	**64,472.60**

27	**V6**	SITC of FAN FOR HOT AIR SUCTION Comprising: Electric Motor of Comptron or equivalent make - 3 HP Power/ 2.25 KW, 440V ISI mark as per manufacturer specifications complete.	3 HP AXIAL (motor Capacity)	1	No.		**39,000.00**	**39,000.00**
		KITCHEN LPG SYSTEM						**-**
28	**L1**	SITC of 10 CYLINDER (5 X 2 = 10) LPG GAS MANIFOLD SYSTEM WITH ALL FITTINGS COMPLITE SET Comprising: 1" dia pipe M.S. manifold, 10 no Non-Retrun-Valve, 10 cylinder pigtail, 10 no clicon addaptor, 2 no ball valve, 1 no Double-Bottle-Connection 1 no perset regulator, 1 no adjustable regulator,	10 CYLINDER (capacity)	10	Nos.		**2,200.00**	**22,000.00**
29	**L2**	SITC of 1/2" DIA LPG PIPE LINE FROM MANIFOLD TO ALL LPG EQUIPMENTS WITH CONNECTION COMPLITE SET Comprising: 1/2" dia M.S. pipe line, 1 no pressure gauge with valve & Needle Control Valve, all connection - 1 no socket, 1no Needle Control Valve, 1no burnner pigtel clump, bend, socket, union set, painted with yellow paint etc including neccesary leakage testing all complete.	60 Metre APPROX	61.00	SQM		**1,935.00**	**1,18,035.00**
			Total					**17,94,007.60**
			GST		**12%**			**2,15,280.91**
			Total amount with GST12%					**20,09,288.51**
			Transportation, installation etc		**5%**			**1,00,464.43**
			Total					**21,09,752.94**
			Contractor profit		**15%**			**3,16,462.94**
								24,26,215.88