

**NAME OF THE WORK: - DETAIL BOQ FOR CONSTRUCTION OF 200 SEATED BOY'S HOSTEL (G+2) FOR GOVT
POLYTECHNIC DHENKANAL , ODISHA**

Sl.No	DESCRIPTION OF ITEMS	AMOUNT (Rs)		
		SCHEDULED	NON SCHEDULED	SCHEDULE + NON SCHEDULE
1	CIVIL WORK	5,52,05,570.37	71,25,008.56	6,23,30,578.94
2	ELECTRICAL WORK		1,34,18,771.70	1,34,18,771.70
3	PH WORK	75,79,377.13	43,08,440.09	1,18,87,817.22
4	SEPTIC TANK	17,62,295.47		17,62,295.47
	Grand Total	6,45,47,242.97	2,48,52,220.36	8,93,99,463.33

NAME OF THE WORK: - DETAIL BOQ FOR CONSTRUCTION OF 200 SEATED BOY'S HOSTEL (G+2) FOR GOVT POLYTECHNIC DHENKANAL, ODISHA								
SLNo	OSR/ NON SCHEDULED RATE(NSR)	DESCRIPTION OF ITEMS	UNIT	BOY'S HOSTEL QTY GOVT POLY DHENKANAL	RATE		AMOUNT (Rs.)	
					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
		CIVIL WORK						
1	OSR AR 2006 Item No. - 3 SR 2022	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150 mm in thickness..	Sqm	827.00	10.19		8,426.98	
2	OSR AR 2006 item no 1a SR 2022	Earth work in excavation IN ALL TYPES OF SOILS by manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10sqm on plan) including disposal of excavated earth up to 50 m and lift upto 1.5m with all lead and lift including shoring, shuttering & dewatering (if required) with cost of all Labour, Labour cess ,Hire & Running charges of the water pumps, Sundries, T & P required for the work complete as directed by the Engineer- in- charge.	Cum	737.25	367.57		2,70,990.98	
3	OSR AR 2006 item no 1a SR 2022	Extra lift of 1.5m or part there of over the initial lift of 1.5m in all kinds of embankments and road works and ordinary earth work in general. 1st Extra lift of 1.5m (upto 7.5m)	Cum	298.58	394.09		1,17,668.25	
4	OSR AR 2006 item no 15 SR 2022	Supplying & Filling foundation trenches , plinth & ditches with clean course river sand well watered and rammed in layers not exceeding 23 c.m. in depth with all lead and lift including cost, conveyance, loading, unloading, stacking,royalties and all taxes of sand,cost & conveyance of water, cost of all Labour,labour cess,T&P required for the work etc. complete in all respect as directed by the Engineer- in- charge.	cum	870.36	1225.43		10,66,565.25	
5	OSR AR 2006 item no 3 SR 2022	Providing and laying plain cement concrete of (1:3:6) in foundation and floors using 40mm. size black hard crusher broken granite stone metal and screened and washed sharp sand for mortar of approved quality and from approved quarry including hoisting, lowering, laying concrete, ramming, watering and curing etc. complete including cost, conveyance, royalties and cost of all labours,labour cess, T&P etc complete as per specification & direction of the Engineer-in-charge.	cum	165.48	7273.99		12,03,700.20	
6	OSR AR 2006 item no 14 SR 2022	Back filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5m. etc. complete in all respect as directed by the Engineer- in -charge.	cum	310.75	204.26		63,472.97	
7	OSR AR 2006 Pg no-163 SR 2022	Disposal of surplus excavated materials by mechanical means from the work side etc. complete. upto 5km. Lead	cum	818.31	328.95		2,69,181.93	
8	NSR	Providing & applying of pre constructional anti-termite treatment by (A)Chemicals The chemical used for the soil treatment shall be of the following with the concentration shown is aqueous emulsion. Imidachloprid 30.5% SC, Doses: 2.1 ml per lit of water (B) Method of Treatment 1.Treatment of Top Surface of Plinth Filling 2.Treatment at Junction of the wall and the floor 3.Treatment of Soil Along External Perimeter of Building 4. Treatment of Soil Surrounding Pipes, Waste and Conduits	sqm	827		189.27	-	1,56,527.94
9	OSR AR 2006 Concrete item no. - 5 or Centering and Shuttering item no- 10 SR 2022	R.C.C. work of M-25 grade with 20mm and down grade black hard black crusher broken granite stone chips of approved quality from approved quarry including hoisting, lowering, laying and compacting concrete, watering curing, centering, shuttering and finishing the exposed surfaces smooth with cost, conveyance, royalties, taxes of all materials with all labour,labour cess and T & P required for the work etc. complete in all respect but excluding the cost and conveyance of M.S. rods or Tor steel and binding wire of 18 to 20 gauge and labour charges for straightening, cutting, bending, binding and tying the grills and placing in proper position and as per spection and the direction of the Engineer-in-charge.					-	-
10		RCC in Foundation & Plinth					-	-
11		Footing & Pedestal	cum	166.51	8191.80		13,64,016.62	-
12		Plinth Beam	cum	69.28	9223.59		6,39,010.38	-
13		Lift Wall	cum	3.32	12287.81		40,758.68	-
14		Column	cum	13.23	8191.80		1,08,377.49	-
15		Ground floor					-	-
16		Column	cum	36.02	19263.53		6,93,872.35	-
17		Roof Beam	cum	51.62	19263.50		9,94,382.08	-
18		Roof Slab	cum	116.84	16826.09		19,66,010.83	-
19		Stair Case	cum	9.66	19100.90		1,84,514.65	-
20		Lintel	cum	10.45	17293.96		1,80,783.90	-
21		Sill	cum	6.43	17293.96		1,11,200.16	-
22		Chajja	sqm	129.56	1502.14		1,94,615.11	-
23		First Floor					-	-
24		Column	cum	36.02	21713.65		7,82,125.67	-
25		Roof Beam	cum	51.62	21713.65		11,20,858.61	-
26		Roof Slab	cum	112.35	18788.67		21,10,906.74	-
27		Stair Case	cum	9.66	21518.48		2,07,868.52	-
28		Lintel	cum	12.03	19350.11		2,32,824.78	-
29		Sill	cum	7.42	19350.11		1,43,577.82	-
30		Chajja	sqm	226.19	1711.35		3,87,090.26	-
31		Second Floor					-	-
32		Column	cum	36.02	24646.42		8,87,764.05	-
33		Roof Beam	cum	51.62	24646.42		12,72,248.20	-
34		Roof Slab	cum	112.35	21136.40		23,74,674.54	-
35		Stair Case	cum	9.66	24412.19		2,35,821.76	-
36		Lintel	cum	12.03	21810.18		2,62,424.88	-
37		Sill	cum	7.42	21810.18		1,61,831.54	-
38		Chajja	sqm	226.19	1961.99		4,43,782.52	-
39		Terrace Floor					-	-
40		Column	cum	16.04	28157.16		4,51,584.53	-
41		Roof Beam	cum	7.78	28157.16		2,19,062.70	-
42		Roof Slab	cum	27.83	23945.15		6,66,468.53	-
43		Lintel	cum	1.35	24753.80		33,417.63	-
44		Sill	cum	1.74	24753.80		43,071.61	-
45		Chajja	sqm	1.26	2262.18		2,850.34	-
46	OSR AR 2006 item no-9 SR 2022	Supplying Cutting, straightening coiled or bent up M.S. Rod or tor steel of primary steel producers such as (grade Fe-500D) etc. including bending, binding, welding and jointing if necessary and tying the grills and placing in position as required for R.C.C. Work and for providing fan hooks as required, hoisting, lowering, laying including cost, conveyances of M.S. Rod or tor steel and binding wires of 18 to 20 gauge and labour required for the work for bending, binding and tying the grills in all floors with labour cess etc. (payment will be made on standard weight of B.I.S. for M.S. Rods or tor steel only) etc. complete as per specification & direction of Engineer-in-charge.					-	-

47		Foundation	Qntl	258.43	10488.31		27,10,493.95	-
48		Ground floor	Qntl	352.77	10488.31		36,99,961.12	-
49		First Floor	Qntl	358.30	10528.55		37,72,379.47	-
50		Second Floor	Qntl	359.3	10570.79		37,98,084.85	-
51		Terrace Floor	Qntl	86.39	10615.16		9,17,043.67	-
52	OSR AR 2006 item no-3 SR 2022	Fly Ash brick masonry in cement mortar (1:6) in Foundation & Plinth using Fly Ash bricks of 23 x 11 x 75 cm size having a crushing strength of not less than 75 kg./sqcm with dimensional tolerance $\pm$ 2% including splays cutting circular moulding chamfering and corbelling and similar such type of works with all necessary projections watering and curing after immersing the bricks in water at least for six hours before use including cost, conveyance, royalties with all labour,labour cess and T & P required for the work complete in all respect as per specification and direction of Engineer-in-Charge.					-	-
53		Foundation	cum	32.87	6701.81		2,20,288.49	-
54	OSR AR 2006 item no-3 SR 2022	Fly Ash brick masonry in cement mortar (1:6) in Superstructure using Fly Ash bricks of 23 x 11 x 75 cm size having a crushing strength of not less than 75 kg./sqcm with dimensional tolerance $\pm$ 2% including splays cutting circular moulding chamfering and corbelling and similar such type of works with all necessary projections watering and curing after immersing the bricks in water at least for six hours before use including cost, conveyance, royalties with all labour,labour cess and T & P required for the work complete in all respect as per specification and direction of Engineer-in-Charge.					-	-
55		Ground floor	cum	159.10	6741.10		10,72,492.31	-
56		First Floor	cum	169.72	7196.94		12,21,463.60	-
57		Second Floor	cum	169.72	7720.74		13,10,363.22	-
58		Terrace Floor	cum	85.59174	8323.13		7,12,391.18	-
59	OSR AR 2006 item no-14 SR 2022	Providing 16 mm thick cement plaster with cement mortar of mix (1:6) with screened and washed sharp sand for mortar and finished smooth to the rough surface of walls in all heights after racking out joints including watering and curing, rounding of corners, providing grooves where ever necessary with cost, conveyance, royalties, with cost of all labour,labour cess, T&P, and scaffolding required for the work etc. complete in all respect and specification and direction of the Engineer in charge. (Outer side plastering)					-	-
60		Ground floor	sqm	696.52	334.41		2,32,925.01	-
61		First Floor	sqm	583.74	342.91		2,00,169.12	-
62		Second Floor	sqm	583.74	351.52		2,05,197.45	-
63		Terrace Floor	sqm	397.25	360.49		1,43,204.65	-
64	OSR AR 2006 item no-4 SR 2022	Providing 12mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement & screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary)including watering and curing, rounding of corners etc. complete with cost,conveyance,loading, unloading, royalties and taxes of all materials, cost of all labour,T&P and scaffolding required for the work etc. as directed by the Engineer-in-charge.					-	-
65		Ground floor	sqm	1724.95	232.22		4,00,574.52	-
66		First Floor	sqm	2161.94	241.55		5,22,206.75	-
67		Second Floor	sqm	2161.94	251.34		5,43,380.74	-
68		Terrace Floor	sqm	457.58	261.72		1,19,759.67	-
69	OSR AR 2006 item no-27 SR 2022	Providing 6 mm thick cement plaster with cement mortar of mix (1:4) with screened and washed sharp sand for mortar and finished smooth to R.C.C. work after closed deep chipping & slurry treatment including watering and curing, rounding of corners, providing grooves where ever necessary with cost, conveyance and royalties of all materials with cost of all labour, T&P, and scaffolding required for the work etc. complete in all respect as directed by the Engineer in charge.					-	-
70		Ground floor	sqm	987.99	244.02		2,41,093.27	-
71		First Floor	sqm	924.42	250.16		2,31,252.91	-
72		Second Floor	sqm	924.42	256.65		2,37,252.39	-
73		Terrace Floor	sqm	50.61	263.14		13,317.52	-
74		Priming one coat with water bound wall cement primer.					-	-
75		Ground floor					-	-
76		Outer	sqm	696.52	98.88		68,874.68	-
77		Inner	sqm	2712.94	98.88		2,68,266.25	-
78		First Floor					-	-
79		Outer	sqm	583.74	102.90		60,064.51	-
80		Inner	sqm	3086.36	101.36		3,12,839.12	-
81		Second Floor					-	-
82		Outer	sqm	583.74	102.90		60,064.51	-
83		Inner	sqm	3086.36	103.84		3,20,487.10	-
84		Terrace Floor					-	-
85		Outer	sqm	397.25	111.63		44,344.22	-
86		Inner	sqm	508.19	106.44		54,089.71	-
87	OSR AR 2006 item no-2 SR 2022	Finishing plastered surfaces of walls with cement based wall putty (Water based) of approved make and finishing the surface smooth and even by sand papering to receive painting in walls, at all heights with staging wherever necessary with cost, conveyance, all materials, cost of all labour,labourcess, all T&P etc. required for the work complete in all respect as per the direction of the Engineer-in-charge.					-	-
88		Ground floor	sqm	2712.94	101.95		2,76,589.66	-
89		First Floor	sqm	3086.36	103.13		3,18,302.48	-
90		Second Floor	sqm	3086.36	104.19		3,21,580.19	-
91		Terrace Floor	sqm	508.19	105.37		53,550.01	-
92	OSR AR 2006 item no-20 SR 2022	Painting two coats with plastic emulsion paint with a approved quality primer to make an even finished surface in all floors and heights to wall surface of approved make and shade including sand papering, applying putty wherever necessary & cost of scaffolding, staging charges with cost, conveyance, cost of all labour,labour cess, T&P etc. complete as per the direction of the Engineer-in-charge.					-	-
93		Ground floor	sqm	2712.94	130.15		3,53,099.99	-
94		First Floor	sqm	3086.36	132.75		4,09,714.29	-
95		Second Floor	sqm	3086.36	135.46		4,18,090.67	-
96		Terrace Floor	sqm	508.19	138.18		70,220.68	-
97	OSR AR 2006 item no-20 SR 2022	Wall painting two coats with Weather coat paint (1st quality) exterior grade of approved make & with a approved quality primer to make an even finished surface in all floors and heights with all scaffolding and staging charges including cost, conveyance, cost of all labours, T & P, sundries etc. as required for the work complete in all respect as per the direction of the Engineer-in-Charge.					-	-
98		Ground floor	sqm	598.02	120.83		72,259.95	-
99		First Floor	sqm	583.74	125.20		73,083.08	-
100		Second Floor	sqm	583.74	129.80		75,769.45	-
101		Terrace Floor	sqm	397.25	134.64		53,484.95	-

102	OSR AR 2012 item no- 1(B) SR 2022	Providing Granite stone matt finished 20mm thick of area above 0.40 Sqm in flooring of approved quality, colour and size in floors, treads on steps and landings in all floors at all height on 20mm thick bed of cement mortar of mix (1:4) laid in proper slope and gradient with screened and washed sharp sand for mortar and fixing with neat white cement slurry, grouting the joints with neat white cement slurry mixed with required quantities of pigments of approved make to match the shades of the granite tile if required watering and curing for 21 days, including edge moulding at required places including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, Labour cess, sundries, T&P required for the work etc. complete in all respect as per specification and direction of Engineer-in-charge.						
103		Ground Floor	sqm	140.11	3657.29		5,12,430.50	-
104		First Floor	sqm	38.889	3673.58		1,42,861.70	-
105		Second Floor	sqm	38.89	3690.57		1,43,522.50	-
106		Terrace Floor	sqm	11.49	3708.39		42,609.36	-
107	OSR AR 2006 item no- 17 SR 2022	Providing Mat finished Granite stone prepolished 10mm thick of area above 0.40 Sqm in dado/skirting, riser of steps of approved quality, colour and size in dado/ skirting, riser of steps, wall on 12mm thick bed of cement mortar of mix (1:3) and laid in proper plumb and line with screened and washed sharp sand for mortar and fixing with neat white cement slurry, grouting the joints with neat white cement slurry mixed with required quantities of pigments of approved make to match the shades of the granite tile if required watering and curing for 21 days, including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, Labour cess, sundries, T&P required for the work etc. complete in all respect as per specification and direction of Engineer-in-charge.						
108		Ground Floor	sqm	10.11	3815.77		38,577.39	-
109		First Floor	sqm	4.77	3840.07		18,305.63	-
110		Second Floor	sqm	4.77	3865.68		18,427.70	-
111		Terrace Floor	sqm	2.04	3892.58		7,940.87	-
112	OSR AR 2012 item no- 1(B) SR 2022	Supplying, fitting and fixing vetrified Industrial tiles in floors of premium grade having thickness 8mm to 10mm of size 300mm x 300mm conforming to IS 4457 with colour / printed series of approved on 20mm thick bed of C.M. (1:4) including cost of all materials, labour, T&P etc. required for the work in all respect as directed by the Engineer in charge.						
113		Ground Floor	sqm	12.48	1558.07		19,444.74	-
114	OSR AR 2012 item no- 1(B) SR 2022	Providing vitrified tile flooring using Double charged vitrified tiles having thickness of 8mm to 10mm conforming to IS 13755 of 600mmx600mm (coloured/printed) of premium quality in floors, treads on steps and landings on 20mm thick bed of cement mortar of mix (1:4) laid in proper slope and gradient with screened and washed sharp sand for mortar and fixing with neat white cement slurry, grouting the joints with neat white cement slurry mixed with required quantities of pigments of approved make to match the shades of the vitrified tile if required , watering and curing for 21 days, including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, Labour cess , sundries, T&P required for the work, complete in all respect as per specification and direction of Engineer-in-charge.						
115		Ground Floor	sqm	446.18	1341.42		5,98,516.56	-
116		First Floor	sqm	624.24	1357.59		8,47,461.98	-
117		Second Floor	sqm	624.24	1374.58		8,58,069.07	-
118	OSR AR 2006 item no- 17 SR 2022	Providing vitrified tile in dado/ skirting using vitrified tiles having thickness of 8mm to 10mm conforming to IS 13755 of 600mmx600mm, (coloured/printed) in dado/ skirting, riser of steps, wall on 12mm thick bed of cement mortar of mix (1:3) laid in proper slope and gradient with screened and washed sharp sand for mortar and fixing with neat white cement slurry, grouting the joints with neat white cement slurry mixed with required quantities of pigments of approved make to match the shades of the vitrified tile if required watering and curing for 21 days, including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, Labour cess, sundries, T&P required for the work, complete in all respect as per specification and direction of Engineer-in-charge.						
119		Ground Floor	sqm	48.20	1499.78		72,289.40	-
120		First Floor	sqm	67.85	1524.09		1,03,409.37	-
121		Second Floor	sqm	72.27	1549.69		1,11,996.39	-
122	OSR AR 2012 item no- 1(B) SR 2022	Supplying, fitting and fixing of Antiskid Ceramic Floor Tiles in flooring using special plain / printed series Ceramic Floor Tile of premium grade (having minimum thickness 7 mm to 8 mm & size 300 mm x 300 mm, conforming to IS 13755 of approved quality and shade in floors, treads on steps and landings on 20 mm thick bed of cement mortar of mix (1:4) and Spacer Bar of 3mm laid in proper slope and gradient with screened & washed sharp river sand for mortar and fixing with neat white cement slurry, grouting the joints with neat white cement slurry mixed with required quantities of pigments (Tiles are to be immersed in the water for required time before use) of approved make to match the shades of the Ceramic Floor Tiles if required including cost, conveyance, loading, unloading, stacking, royalties , all taxes, rubbing, cost of all Labour, Labour cess, Sundries, T&P required for the work , Watering , Curing for required days , cleaning the flooring space manually etc. complete in all respect as directed by the Engineer-in-charge.						
123		Ground Floor	sqm	56.13	1383.79		77,671.91	-
124		First Floor	sqm	69.46	1399.95		97,240.67	-
125		Second Floor	sqm	69.46	1416.94		98,420.93	-
126	OSR AR 2006 item no- 17 SR 2022	Supplying, fitting & fixing of 400 x 400 mm special plain/printed series Ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm conforming to IS 13753 laid on 10 mm thick cement mortar (1:3) Spacer Bar of 3mm (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge.						
127		Ground Floor	sqm	184.91	1494.47		2,76,334.98	-
128		First Floor	sqm	208.50	1518.90		3,16,689.82	-
129		Second Floor	sqm	208.50	1544.50		3,22,028.67	-
130	OSR AR 2012 item no- 1(B) SR 2022	Providing 16mm, thick finished kota stone flooring using kota stone of approved quality, colour and size above 0.10 sqm in floors, treads on steps and landing on 20mm. thick bed of cement mortar mix of (1:4) with screened and washed sharp river sand for mortar and cement of approved quality, grouted with neat white cement slurry laid in proper slope joining the Kota stone with neat white cement slurry mixed with required quantity of pigment of approved marks to match the shades of the kota stone to kota colour if required, watering and curing for the required period , including cost, conveyance, loading, unloading, royalties, and taxes of all materials, cost of all labour, sundries, T&P required for the work including cost of rubbing mechanically and wax polishing etc complete in all floors at all height in all respect as directed by the Engineer-in-charge.						
131		Ground Floor	sqm	146.91	1859.80		2,73,222.92	-

132	OSR AR 2006 item no- 17 SR 2022	Providing 16mm. thick finished kota stone in dado/skirting using kota stone slab above 0.10 sqm of approved quality, colour and size in dado, risers of steps on 12mm. thick bed of cement mortar mix of (1:3) with screened and washed sharp river sand for mortar and cement of approved quality, grouted with neat white cement slurry laid in proper slope mixed with required quantity of pigment of approved marks to match the shades of the kota tiles to kota colour if required, watering and curing for the required period, including cost, conveyance, loading, unloading, royalties, and taxes of all materials, cost of all labour, sundries, T&P required for the work including rubbing mechanically and wax polishing etc. in all floors at all height complete in all respect as directed by the Engineer-in-charge.					-	-
133		Ground Floor	sqm	12.42	2168.49		26,932.60	-
134	OSR AR 2012 item no- 1(B) SR 2022	Supplying, fitting & fixing of Chequered tiles in floors of approved make laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) and filling joints with slurry including cost of all materials, labour T&P etc required for the work all complete as per direction of the Engineer-in-charge					-	-
135		Ground Floor	sqm	27.09	1114.51		30,192.08	-
136	NSR	Factory made single leaf Solid WPC (Wood polymer) composite door shutter of 25mm thick compacted with wood grain finish structural foam panel of 29mm thickness and a density of 650kg/cu.mtr shall be used as core material for fitting the metal fittings such as tower bolts, aldrops, handles etc shall be provided. A structural adhesive compatible with (EPS) foam shall be used for bending the core material. The material and process for manufacturing the door shutters shall conform to RV-TIFAC composites Design Centre's standards and specifications and the door shutters conforming to relevant I.S.specification. The finish of door shutter will be plain colour white/ Ivory/ Beige/ Light grey/ Mahogany/ Teak wood or any other colour using high quality pigments. Three heavy whight mild steel butt hinges type-II (ISI marked) size 100mm are to be fitted on one side of shutter.					-	-
137		Ground Floor	Sqm	60.27		6,410.76	-	3,86,376.69
138		First Floor	Sqm	46.2		6,410.76	-	2,96,177.25
139		Second Floor	Sqm	46.20		6,410.76	-	2,96,177.25
140	NSR	Factory made Solid WPC door frame of size 95mmx55mm fabricated. The door frame consist of four segments which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screw. The WPC frame shall be provided with The material and process for manufacturing the door frames shall conform to Relavent I.S.specification. The finish of door frame will be plain colour white/ Ivory/ Beige/ Light grey/ Golden brown/Mahogany/ Teak wood/sand stone/Champagne/Pastel blue or any other colour using high quality pigments complete in all respect as per specification and direction of the Engineer in charge.					-	-
141		Ground Floor	Rmt	121.10		1,314.87	-	1,59,231.24
142		First Floor	Rmt	101.80		1,314.87	-	1,33,854.17
143		Second Floor	Rmt	101.80		1,314.87	-	1,33,854.17
144	NSR	30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.					-	-
145		Ground Floor	Sqm	20.48		3,574.63	-	73,208.38
146		First Floor	Sqm	34.65		3,574.63	-	1,23,860.86
147		Second Floor	Sqm	34.65		3,574.63	-	1,23,860.86
148	NSR	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.					-	-
149		Ground Floor	Rmt	64.35		711.47	-	45,782.83
150		First Floor	Rmt	113.85		711.47	-	81,000.40
151		Second Floor	Rmt	108.90		711.47	-	77,478.64
152	NSR	Aluminium hanging floor door stopper with twin rubber & stopper					-	
153		Ground Floor	Each	38.00		79.64	-	3,026.32
154		First Floor	Each	39.00		79.64	-	3,105.96
155		Second Floor	Each	39.00		79.64	-	3,105.96
156	NSR	Glazed Aluminium openable doors With Door Closer: Providing and fixing lockable openable system Aluminum works for openable doors applications. The extruded aluminium sections should be made from Grade 6063-T5 & Anodized with Texguard coating. All profiles should be Non insulated Profiles. Corner connection will be Butt joint with Screw using Nano gaskets for sealing. All other major accessories should also be made by the same manufacturer. All panels will have no visible hinge or connecting hardware and shall not be connected on any side of the outer frame. The outer frame Depth will be 72mm. All materials which are used should be corrosion-resistant. Glass to be used is 6 mm toughened. The system should qualify Airtightness ASTM E283: 10.7m3/h.m2 at 75Pa of pressure, Water tightness ASTM E300: 240 Pa, System should have functionality and design, within restrictions defined by technical specifications of anodizin					-	-
157		Ground Floor	Sqm	3.15		29,442.18	-	92,742.87

158	NSR	System Aluminum Sliding Windows - Single Glazed (With MESH): Providing and fixing System Aluminum works for Sliding windows with 50mm & 35mm visible aluminum section width in the center mullion. The extruded aluminums sections should be made from Grade 6063-T5 & Anodized with Tex guard coating, silicon coated to suit marine atmosphere. All profiles should be None insulated Profiles. Corner connection will be Butt joint with Screw using Nano gaskets for sealing. All other major Accessories should also be made by the same manufacture. All Slider windows will be center locking. Integrated Anti-lift in slider panel, EPDM gaskets should be used in slider windows in all meeting points instead of Brush Pile. Frame width shall be 72 mm for 3 track (2 Glazed panels and 1 Mesh panel track provision) with +/- 2mm maximum tolerance. Provision of mesh track must be inbuilt in the offered system. All materials which are used should be corrosion-resistant so that they are good functioning in different environments and that there are no negative influences either on the aluminum or on the surface treatment. The system should allow the application of glazing or panels with thickness up to 8mm. The external perimeter of aluminum sections should be Anodized with Tex guard coating, the system should qualify Airtightness ASTM E283: 10.7m3/h.m2 at 75Pa of pressure, Water tightness ASTM E300: 240 Pa, Wind load resistance ASTM E330: 2400 Pa. System should have a 10 year warranty on properties, functionality and design, within restrictions defined by technical specifications of anodizing applies to normal and realistically foreseeable use. All Slider windows will be center locking.					-	-
159		Ground Floor	sqm	48.60		19,530.18	-	9,49,166.75
160		First Floor	sqm	51.84		19,530.18	-	10,12,444.53
161		Second Floor	sqm	51.84		19,530.18	-	10,12,444.53
162		Terrace Floor	sqm	6.48		19,530.18	-	1,26,555.57
163	NSR	System Aluminum fixed cum louvered ventilators - Single Glazed Providing and fixing System Aluminum fixed cum louvered ventilators - Single Glazed with 50mm & 35mm visible aluminum section width in the center mullion. The extruded aluminums sections should be made from Grade 6063-T5 & Anodized with Tex guard coating, silicon coated to suit marine atmosphere. All profiles should be None insulated Profiles. Corner connection will be Butt joint with Screw using Nano gaskets for sealing. All other major Accessories should also be made by the same manufacture. in all meeting points instead of Brush Pile. All materials which are used should be corrosion-resistant so that they are good functioning in different environments and that there are no negative influences either on the aluminum or on the surface treatment. The system should allow the application of frosted glazing or panels with thickness up to 8mm. Part will be fixed, part will be louvered. The external perimeter of aluminum sections should be Anodized with Tex guard coating, the system should qualify Airtightness ASTM E283: 10.7m3/h.m2 at 75Pa of pressure, Water tightness ASTM E300: 240 Pa, Wind load resistance ASTM E330: 2400 Pa.					-	-
164		Ground Floor	sqm	6.60		6,678.80	-	44,080.08
165		First Floor	sqm	9.12		6,678.80	-	60,910.66
166		Second Floor	sqm	7.92		6,678.80	-	52,896.10
167	NSR	Toilet /Sunken Providing and applying Single component synthetic rubber, AquaArm Saniflex based coating with a coverage of 1.2 kg /m2 over primer surface with AquaArm Uniprime GE. The coating shall be taken upto 300mm from finished floor level on the vertical walls. The coating shall have an elongation of a minimum of 80% when tested as per ASTM D 412 and tensile strength of 1 N/mm2. Thorough surface preparation by mechanical means to level and plain the surface of walls and floors of the toilet areas. All cracks and crevices to be filled and made good to receive waterproofing coating treatment. The coating shall cover all the floor area of the wet area (toilet) and be applied over on to the vertical walls minimum 300mm height above the floor in two or more coats to achieve required thickness. Protective Plaster: Providing and laying avg. 15 mm thick, CM 1:4 plaster admixed with , Integral Waterproofing Compound @ 200 ml / bag of cement. (cement and sand shall be supplied by the main contractor Pipes being fixed for plumbing shall be fixed in holes which are mechanically core cut, more than the dia of the pipes. Pipes shall be fixed by grouting the annular space with non-shrink cementitious grout of proprietary make. Before grouting the pipes shall be wrapped with a waterproofing fleece material at least 50 mm wide and then grouted to fill in the grout, ensuring total watertight plumbing fittings. Contractor shall submit methodology statement with all detail in illustrative sketch form and get approved from Engineer in charge. Application shall be carried out by approved applicator of manufacture and as per recommended by manufacturer. Actual applied area (plan area + wall area) of toilet/ sunken shall be measured for payment. Cost includes all material (for surface preparation,					-	-
168		First Floor	sqm	69.46		764.64	-	53,111.89
169		Second Floor	sqm	69.46		764.64	-	53,111.89
170	OSR AR 2006 SR 2022	Supplying and Fixing of M.S. Window Grill made out of M.S Flat conforming to IS 2062/2006 painted with Red Oxide Primer as per the design approve by E.I.C including cost, conveyance of all materials, priming, and labour for fitting fixing etc. complete as per the instruction of Engineer-in-Charge					-	-
171		Ground Floor	kg	4509.74	94.23		4,24,974.45	-
172		First Floor	kg	5544.64	94.23		5,22,498.04	-
173		Second Floor	kg	5544.64	94.23		5,22,498.04	-
174		Terrace Floor	kg	648.00	94.23		61,064.15	-
175	OSR AR 2006 item-3 SR 2022	Painting two coat with approved synthetic enamel paint to new wood & iron work including cost, conveyances, royalties of all materials and cost of all labour with T&P required for the work etc. complete as per specification & direction of Engineer in charge.					-	-
176		Ground Floor	sqm	64.42	226.32		14,580.89	-
177		First Floor	sqm	90.16	231.99		20,915.83	-
178		Second Floor	sqm	90.16	237.89		21,447.77	-
179		Terrace Floor	sqm	7.20	244.02		1,756.97	-
180	OSR AR 2012 item-11 SR 2022	Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm x 32mm x 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm x 32mm x 2mm in 3 rows in stair case as per approved design and specification, buffing, polishing etc with cost, conveyance, cost of all labour, labour cess, T&P etc. required for the work complete in all respect as per direction of the Engineer-in-charge.					-	-
181		Ground Floor	kg	356.25	361.20		1,28,676.79	-
182		First Floor	kg	251.47	361.20		90,830.46	-
183		Second Floor	kg	251.47	361.20		90,830.46	-

184	NSR	OHT Tank Surface Preparation Surface shall be clean and free of dirt, oil and other contaminants, shall be removed manually or mechanical means / compressed air. Primer Supplying and applying moisture insensitive primer to the concrete surface of Arment, AquaArm Primer PUDC @400g/m2. Coverage of primer shall depend on the surface. Polyurethane Protective Coating Supplying and applying two component hi- build solvent free PU coating, AquaArm Coat PU Plus of 1mm thickness @1sqm/1ltr. The material shall have following properties: Volume Solid- 100% as per ASTM D2697 Shore D Hardness- >50 as per ASTM 2240 Tensile - >10mpa as per ASTM D 638 Elongation- >35% as per ASTM D638 Pull off Adhesion- > 2mpa					
185		Terrace Floor	sqm	14.70	932.20	-	13,703.34
186	OSR AR 2006 item no-17 SR 2022	2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size HG chips including all cost, conveyance, royalty & taxes etc.comp.to work site for new work as per the specification approved by the department & direction of E.I.C				-	-
187		Terrace Floor	sqm	821.09	631.89	5,18,835.40	-
188		Head Room floor	sqm	5.95	704.46	4,188.01	-
189	NSR	TERRACE WATERPROOFING Surface Preparation: Mechanically grinding the surface to remove the bitumen primer from the surface including sealing of cracks if any with epoxy putty/ SBR Latex. Treatment of Pipe Penetration: Providing and sealing the gaps in the core cuts around PVC pipes treated with epoxy bonding agent & sprinkled sand; using Armgrout M 65 non shrink grout followed by sealing of the same joint by using 2 coats of waterproofing coating & SealArm Joint Tape. Coving: Providing and making coving 50mm*50mm at the junction of slab and vertical offsets with Cement Mortar 1:3 and admixed with ReArm SBR 45 at dosage of 1ltr per 50kg cement. (cement and sand shall be in the scope client) Application of Primer: Apply Epoxy based primer AquaArm Primer PUDC over well prepared surface at 250-300 gm/Sq.Mtr. Waterproofing Coating: Providing and applying single component moisture cured waterproofing coating to sound, moisture free concrete surface with AquaArm SPU SPL. Application of waterproofing coating @ recommended consumption of 1.5 kg/sqm for total average system thickness of 1 mm in two coats using Roller, all complete as per manufacturer's methodology. Membrane Termination shall be done at 300 mm above FFL or as per site conditions using 8mm * 8mm groove and filling with PU sealant,. Payment shall be made as per actual area of measurement. For vertical exposed areas, where plastering is to be done, sand shall be sprinkled over the tacky final coat of sealer coat on vertical surface. Later after final curing, plastering should be done. The membrane formed shall confirm to following minimum properties:				-	-
190		Terrace Floor	sqm	827.03	1,247.26	-	10,31,521.44
191	NSR	Expansion joint Treatment Surface Preparation: The area to be treated should be cleaned thoroughly with mechanical means especially for structure. For new surfaces grinding, vacuum cleaning will be sufficient and it should be ensured that the substrate is clean fine pored and free from any loose particles, dust laitance, mould release agents & curing compounds etc. Use suitable methods to prepare the substrate dependent on its condition such as brushing, grinding milling, shot-blasting and water jetting. Providing and applying High performance Expansion joint Sealing system,600mm x 250mm as per roll size of SealArm Tape TPE and fixing it with Epoxy adhesive ReArm Bond 4031, allows irregular and high movement in more than one direction, whilst maintaining a high quality seal, mixing by mechanical means of ReArm Bond 4031, Applying on both sides of the joint and Fixing of tape over joint as per suitable mentioned width of the tape, and complete work as per manufacturer's specification. The tape should be not fixed at the junction to allow free movement. The termination of the membrane on the parapet wall shall be done with epoxy adhesive as same on the horizontal slab. The Parameters for Treatment are as follows: Shore A Hardness Approx. : 87 Tear Resistance-length wise(DIN EN 12311-2 Method B): >12.5 N / m Elongation at break (DIN EN 12311-2 Method B): >500% Tearing Resistance(nail shank) length wise (DIN EN 12310 -1): >200N Water vapour permeability (DIN EN 1931 Method B): >40 m.				-	-
192		Ground Floor	sqm	59.40	2,950.00	-	1,75,230.00
193		First Floor	sqm	59.40	2,950.00	-	1,75,230.00
194		Second Floor	sqm	59.40	2,950.00	-	1,75,230.00
195		ELECTRICAL WORK				5,52,05,570.37	71,25,008.56
196		Sub-Head I (modular Wiring Items)				-	-
197	NSR	Recessed wiring to light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor of ISI marked with 20 mm dia HMS FRLS PVC conduit ISI marked 6A modular type (anti bacterial & flame retardant type) switch ISI marked and ceiling rose ISI marked of modular type G.I box with metallic cover plate (both side) (anti bacterial & flame retardant type) of suitable size, modular box with 1.5 sq. Mm FRLS PVC insulated single core multistandard copper conductor as earth wire including all accessories and connection as per direction of Engineer -in -Charge.				-	-
198		GROUP-A	Nos	152.00	726.88	-	1,10,485.76
199		GROUP-B	Nos	132.00	1,078.52	-	1,42,364.64
200		GROUP-C	Nos	156.00	1,525.74	-	2,38,015.44
201	NSR	Supplying ,fixing of 6A Plug on the same board in existing switch board with complete fitting by 01 no of 6A switch & socket (modular type)(anti bacterial & flame retardant type) & other required accessories of ISI marked as approved as per direction of Engg. -in -Charge. (Maximum 02 nos point in one circuit).	Nos	101.00	231.28	-	23,359.28
202	NSR	Supplying,fixing of 6A Plug on the separate board with complete fitting by 01 no of 6A switch & socket(modular type)((anti bacterial & flame retardant type)) with suitable size modular box & cover(anti bacterial & flame retardant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge.. (Maximum 02 nos point in one circuit).	Nos	75.00	650.18	-	48,763.50

203	NSR	Supplying,fixing of 1x16A Plug on the separate board with complete fitting by 01 no of 16A switch & socket(modular type)((anti bacterial & flame retardant type)) with suitable size modular box & cover(anti bacterial & flame retardant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge.. (For equipment power)	Nos	55.00		810.66	-	44,586.30
204	NSR	Supplying,fixing of 1x6A+1X1 6A Plug on the separate board with complete fitting by 01 no of 16A+1 no 6A switch & socket(modular type) (anti bacterial & flame retardant type) with suitable size modular box & metallic cover plate (both side)(anti bacterial & flame retardant type)including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge.. (For equipment power)(Maximum 02 nos point in one circuit).	Nos	44.00		1,526.92	-	67,184.48
205	NSR	Supplying,fixing of 3x6A+1X1 6A Plug on the separate board with complete fitting by 01 no of 16A+3 nos 6A switch & socket(modular type) (anti bacterial & flame retardant type) with suitable size modular box & metallic cover plate (both side)(anti bacterial & flame retardant type)including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge. (For equipment power). (Maximum 02 nos point in one circuit).	Nos	60.00		2,351.74	-	1,41,104.40
206	NSR	Recess wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 1.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor. In 20 mm dia non metallic heavy duty conduit (LDB to LSB/LIGHT CKT)(2X1.5+1X1.5)	Mtr	600.00		187.62	-	1,12,572.00
207	NSR	Recess wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 2.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty conduit.(BDB to LSB/LIGHT CKT/5A PLUG/UPS POINT) (2X2.5+1X1.5)	Mtr	350.00		204.14	-	71,449.00
208	NSR	Recess wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 4 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty conduit .(PDB to PSB/ POWER POINT/AC POINT) (2X4+1X1.5)	Mtr	325.00		225.38	-	73,248.50
209	NSR	Recess wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 4 nos single core 10 sq. mm copper wire for phase and neutral and 02 nos of single core 6 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty conduit .(LFDB TO FLOOR PANEL TO TPN BDB power) (4X10+2X6)	Mtr	350.00		526.28	-	1,84,198.00
210	NSR	Supply and fixing CALL bell (Ding dong type) /Buzzer on the existing switch box/cover. as required as per direction of Engg.-in-Charge.	Nos	18.00		252.52	-	4,545.36
211	NSR	S/F of Bakelite angle holder/batten holder A category ISI marked as approved of ISI marked conforming to IS-1258/1987 in place of ceiling rose as per direction of Engg.-in-Charge	each	75.00		89.68	-	6,726.00
212	NSR	S/F of 5 step type Modular electronic Fan Regulator ISI Marked with all connection complete in all respect as per direction of Engineer in charge	Nos	35.00		441.32	-	15,446.20
213		Sub-Head II (Light fitting Fixture & Fan)					-	-
214	NSR	Supplying, installation, of exhaust fan of heavy duty 300 mm sweep 1400 rpm with louvers of exhaust fan in the existing wall, including fixing & connection as required as per direction of Engg.-in-Charge.	Nos	68.00		3,693.40	-	2,51,151.20
215	NSR	Supplying, installation, testing and commissioning of 1200 mm sweep white/milky colour BLDC ceiling fan with aluminium blades having wattage not more than 28W and air delivery ≥215m3/min including wiring the down rod of standard length (upto 30 cm) with 1.5 sq mm PVC insulated, copper conductor, single core cable etc. as required as per direction of Engg.-in-Charge,	Nos	270.00		4,394.32	-	11,86,466.40
216	NSR	Supplying and fixing of Energy efficient Recess /Surface mounted square/round shaped LED luminaire made up of CRCA powder coated sheet steel of 25W (2'x2') 595mmx595mmx70mm and system lumens output not less than 3250 lumens (130 lm/ wt) with diffusers for better light transmission and pure effect with High luminous flux LEDs for better light output, CRI not less than 80, CCT of 5700-6500 degree K, THD less than 10%, internal surge protection of 3 KV, complete with Non integrated isolated electronic driver (protects the output /secondary side from any disturbance on the input / primary side ensuring safe operation)and all other accessories suitable for operation on 140-270 V, 50 Hz, L70 @50,000 burning hrs supply as required as per direction of Engg.-in-Charge .	No	70.00		3,164.76	-	2,21,533.20
217	NSR	Supplying and fixing of Energy efficient recessed mounted LED luminaire made up of CRCA powder coated housing, bottom opening clean room LED luminaire of 600 X 600 x 65 mm size with of 36 W and system lumens output not less than 3600 lumens , IP65 ,dust free & zero maintenance , anti glare high transmittance PMMA diffuser , operating voltage range 150-265 V, high performance potentiometric electronic driver for zero maintenance , 2.5 KV internal surge protection, L70 B 50: 50,000 hrs., CRI not less than 80, CCT of 5700-6500 degree K, THD less than 10%, IP 65 protection complete with all other accessories suitable for operation on 230 V, 50 Hz supply as required as per direction of Engg.-in-Charge. .	Nos	50.00		7,500.08	-	3,75,004.00
218	NSR	Supplying and fixing of Energy efficient surface /recess mounted square /round shape 18 W LED luminaire of dimension of consists of white powder coated , die-cast Aluminium housing with high quality frosted diffuser for glare-free uniform lighting distribution with wattage not more than 18 watt and lumen output of 1800 lumens, , CRI not less than 80,CCT of 6000 degree K,THD less than 10%, with electronic driver, internal surge protection of 3 KV , L70 B50: 50000 hrs and all other accessories suitable for operation on 220 V to 240 V supply as required as per direction of Engg.-in-Charge.	Nos	42.00		1,817.20	-	76,322.40
219	NSR	SITC of energy efficient LED tube light fittings with decorative aluminium batten and LED tube light having power rating not more than 20 watt and lumen output not less than 2200 lumen complete with electronic driver and all other accessories with diffuser having required as per direction of Engg.-in-Charge.	Nos	25.00		859.04	-	21,476.00
220	NSR	SITC of Sleek LED 10 watt mirror light fitting with extruded polycarbonate housing,High optically efficient diffuser,above wash basin complete with all accessories:etc. directly on wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required as per direction of Engg.-in-Charge.	Nos	42.00		868.48	-	36,476.16

221	NSR	Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. as required as required as per direction of Engg.-in-Charge. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored) of ISI mark as approved.	Nos	42.00	38.94	-	1,635.48
222		BDBS,DB,AC DB,FLOOR PANELS,MCBS				-	-
223	NSR	Supplying and fixing of following mentioned way, three pole/single pole and neutral, sheet steel, double door MCB distribution board, 415 volts/240 volts shall be as per IEC 61439-3, integrated door earthing system offering additional safety to the user, High quality polyurethane Gasket, the box and cover shall be fabricated to withstand IK09, the DB should be properly pre-treated with 7 tank process and duly powder coated, phosphatized with powder coated finish, on surface/recess, complete with terminal blocks, with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper busbar, neutral busbar, earth bar, din bar. Itus as per direction of Engg.-in-Charge.				-	-
224	NSR	4 Way(8+12) Way TPN MCB DD DB Horizontal Type as per IEC 61439-3 suitable for Flush mounting and Surface mounting with 100A Copper Bus Bar for each phase, with neutral Bus bar, Earth Bar & Cable ties for cable management, prefitted masking sheet	Nos	10.00	5,038.60	-	50,386.00
225	NSR	2+4 way MCB Enclosure DB (GLAZED door) (only each EM. CONNECTION UPS LOAD)	Nos	10.00	1,993.02	-	19,930.20
226	NSR	Supplying and fixing 6- 32 amps rating, 240 volts, C series, Double poles MCB of in the existing MCB DB complete with connections as per direction of Engg.-in-Charge.	Nos	18.00	1,136.34	-	20,454.12
227	NSR	Supplying and fixing 6 amps to 32 amps rating, 240 volts, C series, single poles MCB of . the existing MCB DB complete with connections as per direction of Engg.-in-Charge.	Nos	40.00	378.78	-	15,151.20
228	NSR	Supplying and fixing 40Amps 4P 415 volts, MCB in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge.	Nos	10.00	3,499.88	-	34,998.80
229	NSR	Supplying and fixing 40 Amps rating, RCCB 30mA . in the existing MCB DB complete with connections, testing and commissioning etc. as required as per direction of Engg.-in-Charge.	Nos	10.00	6,182.02	-	61,820.20
230	NSR	Supplying and fixing 40 amps rating, 240 volts, C series, 10KA breaking capacity, Double poles MCB of in the existing MCB DB complete with connections as per direction of Engg.-in-Charge. .Warranty on MCB is 1 year.	Nos	30.00	1,799.50	-	53,985.00
231	NSR	Supplying and fixing 25Amps 4P 415 volts RCCB 30 mA in the existing MCB DB complete with connections as per direction of Engg.-in-Charge.	Nos	15.00	5,885.84	-	88,287.60
232		CABLING AND END TERMINATION MAIN AREA				-	-
233	NSR	Supplying of one number PVC insulated armoured and PVC sheathed XLPE property AL. conductor power cable of 1.1 KV grade of following size cables as per direction of Engg.-in-Charge.				-	-
234		4core x 16 sq mm (incommer)	Mtr	190.00	359.90	-	68,381.00
235		LAYING OF CABLE				-	-
236	NSR	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand cousing protection covering and refilling the trench etc as required as per direction of Engg.-in -charge.	Mtr	168.00	185.26	-	31,123.68
237	NSR	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM in surface with shaddle and screw etc as required as per direction of Engg.-in -charge.	Mtr	25.00	123.90	-	3,097.50
238	NSR	Supplying and making end termination with brass double compression gland and aluminium lugs for following mentioned size cable.as per direction of Engg.-in-Charge.				-	-
239		4 core x16sq mm	Nos	10.00	273.76	-	2,737.60
240	NSR	Providing,fixing and laying of following dia G.I. pipe (medium class) in ground complete with G.I fitting incl. trenching(75 mm depth)and refilling as per direction of Engg.-in-Charge.				-	-
241		50 mm dia	mtrs	26.00	527.46	-	13,713.96
242		CABLE TRAY /RACE WAY FOR DISTRIBUTION OF POWER				-	-
243	NSR	Supplying,fixing of perforated cable trays with horizontal & vertical bends,reducers ,tees,crossover,brakets & other accessories ar requited confirming to IS-IEC -61537, the cable tray shall be galvanised for corrosion protection confirming to DIN EN 10346/ISO 1461. Size 60mm(H) x 200mm(W) of The Load bearing capacity of the Cable Trays should be minimum of 104.8Kg/meter at the span of 1.5Meter as per UL specifications as required as per direction of Engg.-in-Charge.	mtrs	38.00	713.90	-	27,128.20
244	NSR	Supplying,fixing of FLOOR RACE WAY WITH JUNCTION box GALVANIZED(GC) type AS PER EN-ISO-1461 , with internal dimensions of size 38mm(H) x 225mm(W), of .(With all accessories,bend,cover,supporter)WITH REQUIRED SIZED JUNCTION BOX ,COVER CONNECTOR as required as per direction of Engg.-in-Charge.	mtrs	55.00	2,101.63	-	1,15,589.76
245		CCTV				-	-
246		Subhead- 1 (Lan System)				-	-
247	NSR	SITC of 4 pair Cat6 23 awg U/UTP LSZH Cable in the existing surface/ recessed steel/ PVC conduit as required: The 4 pair Unshielded Twisted Pair cable shall be UL Listed,exceeds the requirements of ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E , 4 twisted pairs separated by internal PE Cross Separator. Full separator. Half shall not be accepted. Rip Cord is must,Insertion Loss of 32.8 db/100m at 250 MHz ,Cable should support operating temperature from -20° to +70°C Cable support Conductor Resistance ≤ 9.38 Ω/100m Max., Cable support Delay Skew: < 45 ns/100m, Operating Voltage: 72V , Impedance: 100 ± 15 Ω @100 MHz. and Propagation Delay @250 MHz : 536 ns/100m, ETL Verified 4 connector channel performance up to 700 MHz , RoHS Compliant.	Mtr	230.00	97.94	-	22,526.20
248	NSR	SITC of Cat6 I/O with Dual Face plate: The Outlet shall meet or exceed requirement as per ANSI/TIA 568C.2,ISO/IEC 11801, & EN50173. The information outlet NEXT, PSNEXT, FEXT, ELFEXT, PSELFEXT and return loss should be verified for CAT6 @ 250Mhz & CAT6A @ 500Mhz. The information outlet connector shall be of gold/nickel, thickness of gold > 0.8 µm. The connectors shall be compatible as per IEEE 802.3af standard for POE application. The PVC material of Face plate should complie ABS /UL94-V-O certified.	Nos	18.00	1,195.34	-	21,516.12
249	NSR	SITC of Cat 6, 24-port loaded, 1U Modular Jack Panel Should accommodate Cat6 with Rear Cable Management and Front removable Toolless Information outlet. Should have easy clip management with labels and clear label covers, Made with of Dicast Aluminium Alloy Material and Non Corrosive with Cat6 toolless RJ45 x 24 ports with color code front panel with patch cord locking.	Nos	10.00	11,585.24	-	1,15,852.40
250	NSR	SITC of Cat6 UTP 24 AWG Patch Cord Patch cord: 6 UTP Patch Cords are Factory Tested for Better Quality and Suitable for the High Speed Data Transmission. Complies to the Standard ANSI/TIA/EIA-568-C.2 Standard. Supports Data Networks Speeds Up to 10/100-Base-T and 1000-Base-T. Available In LSZH Jacket- Reduced Toxic Gasses Emitted During Combustion , RJ45, 8P8C, 2 FORK 50µ” Gold Plated Contacts , 100% Factory Tested , Transparent Boot Cable Assemblies.	Nos	10.00	403.56	-	4,035.60

251	NSR	SITC of Cat6 UTP 24 AWG Patch Cord Patch cord: 6 UTP Patch Cords are Factory Tested for Better Quality and Suitable for the High Speed Data Transmission. Complies to the Standard ANSI/TIA/EIA-568-C.2 Standard. Supports Data Networks Speeds Up to 10/100-Base-T and 1000-Base-T. Available In LSZH Jacket- Reduced Toxic Gasses Emitted During Combustion , RJ45, 8P8C, 2 FORK 50μ" Gold Plated Contacts , 100% Factory Tested , Transparent Boot Cable Assemblies. (2 mtr length)	Nos	17.00		480.26	-	8,164.42
252	NSR	SITC of 6 core Single mode OS2 Unitube Armoured Optical fiber cable through existing conduit: The Fiber should be OS2 Single Mode Optical Fiber Cable of Size 9/125μm. Outdoor Corrugated Steel tape Central loose tube. (Standard Approved: ISO 11801 2nd edition/ EN 50173-1:2002 / IEC 60794-1/IEC 60793-2-50 class B1.3 / EN 60793-2-50: class B1.3 / ITU Recommendation G.652.D - the order ITU designations A, B and C are also fulfilled / OS1/ISO/IEC 24702:2006, cat. OS2; also OS1 requirements are fulfilled/IEEE 802.3 - 2002 incl. 802.3ae) Jacket.	Mtr	62.00		145.14	-	8,998.68
253	NSR	SITC of Rack mount Draw Type Loaded 6 port LIU available in Standard 19" ,Dimensions (mm) : 430 X 220 X 1U , Cold Rolled Steel as Raw Material , Consist of Top Cover and Bottom Panel , Easy to Assemble and Dissemble , Three Types of Input Holes Cable Entry Through Water Proof Cable Clamp , 12 Duplex SC or LC Adapter Interface , Splice 24 Fibers at Most with 1 Tray ,Adaptor, SM, Duplex SC, PC Type ,Pigtail, Support the TIA/EIA Telecommunication Wiring Standards. Compact Design , Telcordia GR-326-Core .	Nos	15.00		9,848.28	-	1,47,724.20
254	NSR	SITC of OFC Patch Cor, SM (OS2), Duplex LC-SC, LC-LC PC Type, 3M, LSZH Fiber Optic Single Mode OS2 Patch Cords are offered in LSZH Jackets with Corning Fiber,Insertion Loss : <= 0.2 db, Max 0.3db/MTRJ: Max 0.5db Return Loss : PC>= 45db, UPC>=50db, APC>=60db.	Nos	13.00		2,715.18	-	35,297.34
255	NSR	SITC of 1G-LX/LH SFP transceiver module,SMF, 1310nm, 9/125 um Single mode Fiber Type up to 20 KM.	Nos	18.00		7,080.00	-	1,27,440.00
256	NSR	SITC of 9U/500D Wall Mount Rack with Accessories: The rack size should be 600W x 500D, Front frame integrated with top, bottom, front and two side panels for better rigidity and strength, Front Glass Door with Lock loaded, Compliance with standards shall be UL 2416 , DIN 41494, IEC EN 60529, IEC EN 62262 , IEC EN 60068-2-11 , ISO 9001:2008 including Power Distribution Unit (06/16 Amp Indian-Standard - 06 Socket - Single Pole / Screw Mountable / 16 Amp MCB / Alternating Current - 16 Amp 3 Pin Plug with Power Cable 2.5 sq.mm 3 meter Length), 1 cooling Fan(230V AC - 90 CFM, dB 42), 2nos 1U Metal Cable manager with Plastic cable loops and H/W screw.	Nos	16.00		13,257.30	-	2,12,116.80
257	NSR	Supplying and fixing of following sizes of heavy class PVC FRLS conduit ISI marked along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required as per direction of Engg-in-Charge					-	-
258		20 MM	Mtr	68.00		148.68	-	10,110.24
259		25 MM	Mtr	55.00		151.04	-	8,307.20
260		Subhead- 1.a (IP-PBX System)					-	-
261		Supplying desktop telephone sets with colour ID as reqd	nos	2.00		1,416.00	-	2,832.00
262		S/f of 50 pair krone box with k2 no. krone module	nos	2.00		2,655.00	-	5,310.00
263	NSR	Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the surface/ recessed steel/ PVC conduit as required.					-	-
264		2 Pair	Mtr	66.00		41.30	-	2,725.80
265		Subhead- 3 (IP-CCTV System)					-	-
266	NSR	Supply, Installation, Testing & Commissioning of 5MP IP Network TDN Low-Light IR Fixed Lens Dome/Bullet Camera, 1/2.8" CMOS or better, 5MP (2592 x 1944) @ 25fps or better, four stream at various resolution & Frame Rates, Min. Illumination required 0.005 lux (color), 0 Lux IR On, 3 IR LEDs, Smart IR with upto 50m(bullet)/40m(dome) IR distance, Auto ICR (Infrared Cut Filter) 130dB True WDR, S/N Ratio 55db, Shutter Speed 1/3 - 1/100,000; Advantech Video Compression technology such as H.265 HEVC/ H.264 / MJPEG , Fixed Lens 2.8mm(Dome)/3.6mm(bullet), Field of View FoV H:96.5°, V:73.8°(dome)/ Field of View FoV H:94.1°, V:71°(bullet), BLC, HLC, WDR, 2D/3DNR, White Balance - Auto/Manual/Day/Night/timing, Minimum Edge Intelligence Video Analytics : Video Motion Detection, Tampering, Loitering, Intrusion, & People Counting, 5 Privacy Mask, 6 Region Of Interest, Defog, HTTPS, IP Filter, TLS1.2, AES-128/256, SSH/Telnet closed, Stream Encryption, 2TB SD card support, PoE (802.3 af) and 12V DC, IP 66/67 & IK10 Vandal proof with Die Cast Aluminium Housing, Having Operating temp range : -30°C to 60° C. Certifications: ONVIF Profile S/G/T compliant., CE (EN 50130-4), FCC Part 15, EN 55032 & RoHS (EN63000),NDA,STQC compliant.	Nos.	28.00		14,750.00	-	4,13,000.00
267	NSR	LIGHTNING ARRESTER					-	-
268	NSR	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	Each	5.00		718.62	-	3,593.10
269	NSR	Fixing of lightning conductor finial (single prong) with base plate including holes etc. complete as required	Each	5.00		497.96	-	2,489.80
270	NSR	Joining 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	5.00		164.02	-	820.10
271	NSR	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)	Mtr	230.00		174.64	-	40,167.20
272	NSR	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)	Mtr	40.00		280.84	-	11,233.60
273	NSR	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	4.00		165.20	-	660.80
274		FIRE FIGHTING					-	-
275		FIRE EXTINGUISHERS					-	-
276	NSR	FIRE FIGHTING -: Supplying, installation, testing and commissioning of Electric Motor Driven Pressurization Terrace Pump having discharge of 900 LPM at 35 Mtr head complete with Pump Set, Electric Motor suitable for operation on 415 V ,3 ph, 50 c/s AC supply , Base Frame	No	1.00		95,243.70	-	95,243.70
277	NSR	Supply, installation, testing and commissioning of Floor/Wall mounted sectionalised, front operated top entry dust and vermin proof M.V.Panel Boards suitable for operation at 415V, 3 phase, 4 wire, 50Hz distribution system fabricated out of 2.0 mm thick CRCA sheet, insulated busbar with heat shrinkable PVC sleeve, base frame, complete with all accessories including interconnections, earth bus etc as required comprising of One (1)- 63 Amp, 10 KA,TPN (Class-C) MCB with 3 Nos Phase indicating lamps with control fuse/ MCB, Digital Voltmeter with selector switch. DOL starter with O/L and Single Phasing Preventor suitable for 7.5 HP motor. ON/OFF indication lamps, Auto manual switch and ON/OFF push button.as per direction of engineer in charge Control panel for fire pumps for auto action.	No	1.00		44,604.00	-	44,604.00
278	NSR	SITC of FRLS, PVC outer sheath, steel armoured, aluminium, 1100v grade power cables with glands etc. The minimum size of the cables shall as mentioned below as per direction of engineer in charge 3.5C x 16 mmsq	Rmt	120.00		359.90	-	43,188.00

279	NSR	Supply & Fixing of 2 core 1.5 sq.mm, multi strand, copper conductor, FRLS (Fire Retardant Low Smoke)-PVC insulated GI Screened Armoured cable with saddle and required accessories.& Power Cable.	Rmt	120.00		158.12	-	18,974.40
280	NSR	G.I. earthing strips of 25mm x 6mm thick, strip shall be run for PUMPS	Rmt	120.00		230.10	-	27,612.00
281		PIPE & VALVES ETC.					-	-
282	NSR	Supplying, installation testing and commissioning of the following:- 'C' class MS Pipe as per IS1239 for underground/over ground pipes with welded / flanged connection with saddles, supports (all with screwed/welded joints) as required including pipe of shorter lengths, tapering connecting pieces, short or long bends, specials like sockets, union nuts, elbows, reducers, plugs, Tees etc. Complete to make the system operative as required by LFA / TAC authorities the pipes will have to be laid and fixed in trenches. The work includes excavation in all types of soils and back filling, dewatering, etc., making holes in brick or RCC walls, slabs/ roofs and making good the damages by bringing to the original condition to the satisfaction of the client and painting two coats of approved shade(Post office red)of enamel paint over a coat of approved primer for overheads pipes and providing and fixing pyp kote (corrosion protection tape) including supply and application of pipe coating and spiral Wrapping for underground piping (wrapping should have overlap of 15 to 20 mm) etc.Complete as per ASTM standards/IS: 10221 for corrosion protection of pipes for the underground installation.Note: The piping installation has to be put to hydraulic test to1.5 times the working pressure & as per latest applicable codes & standard before applying paint or pipe coating or wrapping etc. complete.					-	-
283		100mm NB	Mtr	106.00		2,899.26	-	3,07,321.56
284		80mm NB	Mtr	77.00		1,604.80	-	1,23,569.60
285		25mm nb	Mtr	77.00		729.24	-	56,151.48
286	NSR	Supplying, installation testing and commissioning of the following:- 'C' class MS Pipe as per IS1239 for underground/over ground pipes with welded / flanged connection with saddles, supports (all with screwed/welded joints) as required including pipe of shorter lengths, tapering connecting pieces, short or long bends, specials like sockets, union nuts, elbows, reducers, plugs, Tees etc. Complete to make the system operative as required by LFA / TAC authorities the pipes will have to be laid and fixed in trenches. The work includes excavation in all types of soils and back filling, dewatering, etc., making holes in brick or RCC walls, slabs/ roofs and making good the damages by bringing to the original condition to the satisfaction of the client and painting two coats of approved shade(Post office red)of enamel paint over a coat of approved primer for overheads pipes and providing and fixing pyp kote (corrosion protection tape) including supply and application of pipe coating and spiral Wrapping for underground piping (wrapping should have overlap of 15 to 20 mm) etc.Complete as per ASTM standards/IS: 10221 for corrosion protection of pipes for the underground installation.Note: The piping installation has to be put to hydraulic test to1.5 times the working pressure & as per latest applicable codes & standard before applying paint or pipe coating or wrapping etc. complete.					-	-
287		100mm NB	Nos	17.00		6,289.40	-	1,06,919.80
288	NSR	Providing, fitting & fixing of following size cast iron double flanged type dual plate Non return Valve as per IS- 5312 (Part 1): 2004 with ISI mark of pressure rating PN-1.60 including fixing the same with supply of required jointing materials like flanges, rubber insertion, MS nuts & bolts, paint etc. and testing the joints with required water pressure etc. all complete as per specification & direction of Engineer-in-charge.					-	-
289		100mm NB	Nos	17.00		7,634.60	-	1,29,788.20
290	NSR	Supply,Installation,Testing & Commissioning of Pressure gauge of 0-16 Kg/sq.cm. range with cut-off bronze ball valves of suitable size with all accessories as per direction of Engineer-in-charge.	Nos	17.00		1,864.40	-	31,694.80
291	NSR	Supply,Installation,Testing & Commissioning of Pressure Switch with cut-off bronze ball valves with integral strainer & flare nut (mixed ends) of suitable size with all accessories as per direction of Engineer-in-charge.	Nos	17.00		3,740.60	-	63,590.20
292	NSR	Supply,Installation,Testing & Commissioning of stainless steel strainer fabricated out of 1.6 mm thick stainless steel sheet Y Stainer with 3 mm dia holes with stainless steel flange as required.					-	-
293		100mm NB	NOS	17.00		10,502.00	-	1,78,534.00
294		DOWN COMER SYSTEM					-	-
295	NSR	Supply,Installation,Testing & Commissioning of Stainless steel Hydrant Valve / Landing valve, of 63 mm NB size, type-A, single headed , oblique type, as per IS :5290/93 and as per direction of Engineer-in-charge	Nos	28.00		8,130.20	-	2,27,645.60
296	NSR	Supply,Installation,Testing & Commissioning of SS short branch pipe with 63 mm male inlet and 19 mm outlet nozzle, as per IS:903 and as per direction of Engineer-in-charge.	Nos	28.00		2,808.40	-	78,635.20
297	NSR	Supply,Installation,Testing & Commissioning of 63 mm NB and 15meter long RRL Fire Hose fitted with 63mm instantaneous stainless steel male & female SS coupling, complete by GI wire binding for Internal Hydrant as per direction of Engineer-in-charge	Nos	46.00		6,926.60	-	3,18,623.60
298	NSR	Providing supply & fixing of MS Hose Box for of suitable size(750X600X250mm) to accomodate 2 nos. of 15/ 1 no of 30 mtr long fire hose and a branch pipe, wall mounted type as per direction of Engineer-in-charge.	Nos	28.00		6,372.00	-	1,78,416.00
299	NSR	Supply,Installation,Testing & Commissioning of Swinging pattern wall fixing first aid hose reel made from MS sheet and waterways and moving parts with rubber hose of 20 mm dia. and 30 mtrs. long with ABS(Plastic) shut-off nozzle as per IS: 444/IS: 12585 Type-I, complete with all accessories as per direction of Engineer-in-charge.	Nos	28.00		9,765.68	-	2,73,439.04
300	NSR	Providing, fitting and fixing of C.I. 25 MM single air relief valve with stop cock conforming to IS:14845/2000 with ISI mark for water works purpose including fixing the same with hydrant riser including testing & commissioning the system etc. all complete as per approved specification & direction of Engineer-in-charge.	Nos	28.00		1,699.20	-	47,577.60
301	NSR	Providing, fitting & fixing of 4-Way GM fire brigade connection consisting of 63 mm dia instantaneous type male couplings with built-in check valves, 150mm dia flanged outlet complete with bolts, nuts and rubber insertions conforming to IS:904 with ISI mark including testing & commissioning the system etc. all complete as per approved specification & direction of EIC.	Nos	28.00		6,974.98	-	1,95,299.44
302		EXTINGUISHER SYSTEM					-	-
303	NSR	Portable Fire Extinguisher System Supplying, installation, testing and commissioning of CO2 type Fire Extinguisher 4.5 kg capacity conforming to IS: 2878 made from ISI marked seamless cylinder conforming to IS: 7285, fitted with ISI marked controlled valve conforming to IS: 3224, high pressure 1mtr discharge hose & horn complete with initial gas charged with carrying handle & wall mounting bracket as per direction of Engineer-in-charge.	Nos	28.00		9,086.00	-	2,54,408.00
304	NSR	Supplying, installation, testing and commissioning of ABC type fire extinguishers of 6 kg capacity including cost of all material & labour etc complete.	Nos	28.00		3,851.52	-	1,07,842.56

305	NSR	Fire buckets (FILLED WITH SAND) round bottom type enamel painted, white inside & Red out side and Letter "FIRE" in black out side and handle with mounting bracket.	Nos	19.00		5,000.84	-	95,015.96
306		AUTOMATIC FIRE ALARMING SYSTEM					-	-
307	NSR	Supply, installing, testing and commissioning of of 4 Loop Network Panel Micro processor based 4 wire fault tolerant loop,with inbuilt network port (each loop accessing 99 or more detectors and 99 or more modules) fire alarm/detection control panel. The Panel shall have 10000 or more event log history . Panel shall be capable of having 1600 or more configurable zones .The panel shall be able to give location of all fire/fault conditions of addressable units via the address codes. Further, the panel must be able to automatically switch ON /OFFrespective control module when ever any alarm is triggered. The panel shall have 7 Inch Touch Screen unit to indicate Fire/Fault Signal with address and analog output, external/inbuilt printer to log all fire or fault events complete in all respects.The Panel Shallbe Sheet Steel Painted, sealed to IP30. The Panel Shall have provision for 40 or more Zones with Individual LED Indicators expdable upto 200 Zones or higher. The panel shall have a built in power supply and battery charger along with maintenance free 7 AH, 2 x 12 volt SMF Lead acid batteries capable of running for a minimum of 48 hours with battery charger complete as required.and as per specifications. conforming to BS5839 Standards and Duly Approved by EN54 The panel shall support detection logics like coincidence & verification detections for the false alarm management. The Panel shall adjust the sensitivity between day and night to maintain the better detection/reponse time. The Panel shall be capable of programming through PC ; Touch Screen of USB .This panel having facility of MODBUS protocol over TCP/IP for BMS integration.The panel should have provision for inbuilt RJ45 connection terminal for connecting to the LAN with inbuilt BACNET Protocol.	No	1.00		4,27,160.00	-	4,27,160.00
308	NSR	Supplying, installing, testing and commissioning of adressable multi sense smoke detector with inbuilt isolator module/isolator base,base, junction box and other accessories.	Nos	314.00		4,189.00	-	13,15,346.00
309	NSR	Supplying, installing, testing and commissioning of Addressable Manual Call Point with inbuilt monitor module and back box.	Nos	28.00		6,089.98	-	1,70,519.44
310	NSR	Supplying, installing, testing and commissioning of addressable Hooter at 85 dBA @ 3m for Audible annunciation and 75cd flashing at 1 Hz for visual indication with all accessories etc., complete.	Nos	28.00		8,190.38	-	2,29,330.64
311	NSR	Supplying, installing, testing and commissioning of 2C x 1.5 sq. mm, Twisted Pair PVC insulated FRLS Armored Cable with Accessories conforming to IS standards and specifications. The quoted rate shall includes of Acrylic Fire stop Sealant in the opening for cables passing through fire compartment walls of RCC floors, masonry walls to provide up to 2 hours fire rating.	Mtr.	2477.00		166.38	-	4,12,123.26
312		PA SYSTEM					-	-
313	NSR	Supplying, installation, testing & commissioning of 6 zone,voice alarm controller with USB, MP3 player (including 6 zone button paging station) with seamless integration facility with main fire alarm panel for voice evacuation complete as required .	Nos.	2.00		1,18,868.48	-	2,37,736.96
314	NSR	Supplying, installing, testing and commissioning of Power amplifier of 480 watt.The amplifier should be clean reliable audio for public address amplification.Line input less than 1 volt, unbalanced& line output less than 1 volt unbalanced	Nos.	2.00		61,124.00	-	1,22,248.00
315	NSR	Supplying, installing, testing and commissioning of 12 Watt wall mounted speakers with built in line matching transformer, grill flush mounting type in side the utility rooms.	Nos.	68.00		3,363.00	-	2,28,684.00
316	NSR	Supplying, installing, testing and commissioning of 2 runs of 40 strand and each of 0.2 mm thick, Twisted Pair PVC insulated FRLS unarmored Cable with Accessories conforming to IS standards and specifications. The quoted rate shall includes of Acrylic Fire stop Sealant in the opening for cables passing through fire compartment walls of RCC floors, masonry walls to provide up to 2 hours fire rating.	Mtr.	1979.00		75.52	-	1,49,454.08
317	NSR	SIGNAGES					-	-
318		SIGNAGES:-Providing and installing in position the following type of sign boards made out of 3mm thick flexible photoluminescent based glow in dark sheeting with luminous properties enclosed in a weather proof Uvstabilized film with UV screen printing by imported links pasted over3 mm thick cast acrylic from front side with 6 mm thick acrylic, -20 to+80 deg C, Suitablefor indoor use, greenish yellow, glow visible upto 4-6 hr in total darkness for floor indication, fire exit, hydrant, hose reel, fire extinguisher, MCP, fire alarm panel, in case of fire, lift, alarm valve signages, FIRE EVACUATION PLAN	Sqinch	3952.00		21.24	-	83,940.48
319		Illumination Glow light for Exit Indication with Battery Back-up.	Nos	28.00		6,726.00	-	1,88,328.00
320	NSR	LIFT					-	-
321		13 PASSENGER LIFT WITH WIRING(1.1)					-	-
322		Supply,Installation, Testing & Commissioning of of 13 Passenger lift gearless with Machine room Capacity(884 Kg),Elevator G+2 Floors with ACVVVF drive/Control with ARD 1.25 MPS, SS honeycomb interior ,2hr fire rated door with simplex operation without attendant car position indicators,battery operated alarm bell & emergency light,SS honeycomb finish door finished car interior, recess Granite flooring ,power operated centre opening automatic sliding SS honeycomb finish doors for car entrance & hoist way entrance etc . All SS Material shall be of SS-304 Grade and the thickness shall not be less than 1.6mm. Machine beams,buffer support channels,faia plate including sills pit ladder metal screen in Elevator pit etc.as per specification including cost of (i)Overload detection,(ii)Voice announcement,(iii) Intercom,(iv)Braille Buttons with all Civil & Electrical works required for installation of Elevator in the existing lift well and machine room,scaffolding ,floor cutting including Fireman's switch complete in all respect.The Elevator should be suitable for physically handicapped person.	job	1.00		15,83,985.98	-	15,83,985.98
323		PH WORK					-	-
324	NSR	Providing and fixing Chlorinated Polyvinyl Chloride [CPVC] pipes SDR-11 conforming to IS:15778, having thermal stability for hot & cold water supply , including all CPVC plain & brass threaded fitting including fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes and fittings with one stp CPVC solvent cement and testing of joints complete as per specification and direction of Enfineer-in-charge.					-	-
325		20 mm PVC sch-80 pipes	Mtr	401.00		362.92	-	1,45,529.85
326		25 mm PVC sch-80 pipes	Mtr	485.00		482.67	-	2,34,094.05
327		32 mm PVC sch-80 pipes	Mtr	625.00		692.94	-	4,33,084.70
328		50 mm PVC sch-80 pipes	Mtr	750.00		1,417.78	-	10,63,332.41
329	PH AR 2013 Item no 3.1.10	Supplying all materials,labour and T&P for cutting holes through existing brick work including making good to the same in cement mortar(1:4) for taking G.I. pipes and fittings /P.V.C. pipes and fittings all complete as per specification.					-	-
330		200mm Thick	Each	80.00	86.02		6,881.76	-

331	PH AR 2013 Item no 3.1.11	Supplying all materials,labour and T&P for cutting holes in R.C.C. floors and roofs up to 19 cm. thick including for passing GI / PVC pipes and fittings etc. and repairing the holes after insertion of pipes etc. with cement concrete 1:2:4 including finishing complete to make it leak proof leak to the damages all complete as per specification and direction of the Engineer-in-charge.	Each	115.00	254.05		29,216.21	-
332	PH AR 2013 Item no 3.1.12	Supplying all materials,labour and T&P for cutting groves in pucca floor and walls for taking G.I. pipes and fittings /P.V.C. pipes and fittings and making good to the damages all complete as per specification.	Mtr	140.00	301.49		42,208.60	-
333		Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials complete as per specification and direction of the Engineer-in-charge.					-	-
334	PH AR 2013 Item no 3.2.15	Supplying all labour and T&P for fixing 2 in 1 bib cock of the following size as per specification all complete. 15mm Dia	Each	157.00	1543.79		2,42,375.66	-
335	PH AR 2013 Item no 3.2.15	Supplying all labour and T&P for fixing long body bib cock of the following size as per specification all complete. 15mm Dia	Each	169.00	1272.28		2,15,014.64	-
336	PH AR 2013 Item no 3.2.15	Supplying all labour and T&P for fixing CP Angular stop cocks polished bright conforming to IS:781-1995 of the following nominal sizes as per specification all complete. 15mm Dia	Each	170.00	1080.29		1,83,649.30	-
337	PH AR 2013 Item no 3.4.21	Supplying fitting fixing of C/P Pillar Taps highpressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification. 15mm Dia	Each	75.00	1740.50		1,30,537.50	-
338	PH AR 2013 Item no 3.2.15	Supplying all labour and T&P for fixing CP short body Bib cock [taps] polished bright conforming to IS:781-1995 of the following nominal sizes as per specification all complete .	Each	153.00	1080.29		1,65,284.37	-
339	PH AR 2013 Item no 3.2.18	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] conforming to IS:1703-1977 of the following nominal sizes as per specification all complete. . 25mm Dia	Each	122.00	810.78		98,914.92	-
340	PH AR 2013 Item no 3.2.18	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] conforming to IS:1703-1977 of the following nominal sizes as per specification all complete. . 32mm Dia	Each	178.00	1677.49		2,98,592.86	-
341	PH AR 2013 Item no 3.2.18	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] conforming to IS:1703-1977 of the following nominal sizes as per specification all complete. . 50mm Dia	Each	156.00	3687.74		5,75,286.82	-
342	NSR	Providing and fixing C.P. Brass Extension Nipple 1 inch with extension piece as per direction of Engineer-in-charge.	Each	145.00		701.38	-	1,01,700.13
343	PH AR 2013 Item no 3.4.23	Supplying fitting fixing of CP waste of the following noninal diameter for wash hand basin and sink as per specification.	Each	100.00	448.52		44,851.80	-
344	NSR	Supplying all materials,labour and T&P for fixing CP Gratings of the following nominal diameter of outlet, of self cleaning design with sand cast iron screwed down or hinged grating with or without vent arm including cutting and making good to the walls and floors etc. all complete as per specification.	Each	155.00		1,404.67	-	2,17,724.16
345	NSR	Providing and fixing of approved make and model for Chrome plated Grab Bar,for Physically challenged toilet, The work shall include the cutting of walls or floors & making good, complete as per direction of Engineer in Charge.	Each	145.00		5,177.18	-	7,50,690.98
346	PH AR 2013 Item no 3.4.21	Supplying fitting fixing of C/P health facuet high pressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification. 15mm dia CP Health Faucet of 1mtr long PVC tube	Each	87.00	955.56		83,134.07	-
347		Supplying all materials, labour, T&P and fitting and fixing U-PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No 13592/1992 to walls with nails, bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification, testing, earthwork in excavation in all kinds of soil and refilling of trenches as per specification and direction of the Engineer-in-Charge..					-	-
348	PH AR 2013 Item no 3.3.2	110mm diameter PVC SWR pipes .	Mtr	360.00	461.85		1,66,266.72	-
349	PH AR 2013 Item no 3.3.2	75mm diameter PVC SWR pipes .	Mtr	480.00	286.62		1,37,578.56	-
350	NSR	110mm PVC door Tee	Each	159.00		458.67	-	72,927.89
351	NSR	75mm PVC door Tee	Each	130.00		345.74	-	44,946.20
352	NSR	110mm PVC offset	Each	140.00		162.84	-	22,797.60
353	NSR	110mm PVC door bend	Each	149.00		255.47	-	38,065.03
354	NSR	75mm PVC door bend	Each	105.00		134.64	-	14,136.99
355	NSR	110mm PVC plain shoe bend	Each	175.00		201.54	-	35,270.20
356	NSR	75mm PVC plain shoe bend	Each	160.00		98.18	-	15,708.16
357	PH AR 2013 Item no 3.3.3	110mm PVC vent cowl	Each	150.00	102.19		15,328.20	-
358	PH AR 2013 Item no 3.3.3	75mm PVC vent cowl	Each	85.00	86.14		7,321.90	-
359	PH AR 2013 Item no 3.4.3	110mm S-trap	Each	160.00	741.75		1,18,679.68	-
360	PH AR 2013 Item no 3.4.3	110mm P-trap	Each	95.00	410.88		39,033.22	-
361	NSR	110mm SWR Pipe Clip	Each	171.00		35.87	-	6,134.11
362	NSR	75mm SWR Pipe Clip	Each	194.00		27.61	-	5,356.73
363	NSR	110/75 mm Dia Reducer/Connector	Each	99.00		305.03	-	30,197.97
364	NSR	90mm Nahani Trap	Each	115.00		171.81	-	19,757.92
365	PH AR 2013 Item no 3.4.6	Supplying all materials,labour and T&P for fixing of PVC 10 ltr capacity low level flushing cistern with manually controlled device[handle cover] conforming to IS 7231, with fittings and fixtures etc. all complete as per specification. 10 Liters capacity PVC cistern	Each	115.00	2302.65		2,64,804.98	-
366	PH AR 2013 Item no-3.4.1	Supplying all materials,labour and T&P for fixing water closet ,squatting pan(Indian type.W.C.pan or Orissa pan) conforming to IS 2556 : Part-3-2004 duly embedded in cement concrete (1:4:8) using 40mm.nominal size h.b.g. chips [including foot rest for I.W.C. and trap] all complete as per specificationand directon of theEngineer - in - charge. Orissa Pan	Each	104.00	4541.23		4,72,287.92	-
367	PH AR 2013 Item no 3.4.2	Supplying all materials,labour and Supplying all materials,labour and T&P for fixing in cement mortar (1:3) a pair of white vitreous china (250x130x30mm.) foot rest for squatting water closet. etc. all complete as per specificationand direction of the Engineer-in-charge. Foot Rest	Pair	120.00	661.04		79,324.32	-
368	PH AR 2013 Item no-3.4.4	Supplying all materials,labour and T&P for Supplying all materials,labour and T&P for fixing wash down water closet (European type W.C.) with integral "S" or "P" trap tothe floor with wooden plug and chromium plated screw including jointing the trap with soil pipe in cement mortar (1:1) etc. all complete as per specification. EWC	Each	115.00	5289.29		6,08,268.35	-
369	PH AR 2013 Item no 3.4.5	Supplying all materials,labour and T&P for fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers all complete as per specification.	Each	128.00	1089.61		1,39,470.34	-

370	PH AR 2013 Item no -3.4.8	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: fixing of pedestal for wash basin	Each	140.00	3093.84		4,33,137.88	-
371	PH AR 2013 item no 3.4.26	Supplying all materials,labour and T&P for fixing of 600x450 bevelled edge mirror of superior glass mounted on 6mm thick ac sheet or ply wood sheet and fixed to wooden plugs with chromium plated brass screws and washers etc. All complete as per specification . 600mmx450mm size B.E.mirror	Each	93.00	2548.80		2,37,038.40	-
372	PH AR 2013 Item no 3.4.27	Supplying all materials,labour and T&P for fixing standard size glass self with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws and washers etc. all complete as per specification.	Each	103.00	939.16		96,733.69	-
373	PH AR 2013 Item no 3.4.28	Supplying all materials,labour and T&P for fixing standard size C. P. towel rail fixed with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws complete as per specification. CP towel rail-	Each	89.00	1269.80		1,13,012.02	-
374	PH AR 2013 Item no 3.4.30	Supplying all materials,labour and T&P for fixing of cromium plated brass soap dish complete with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws as per specification. CP soap dish-	Each	115.00	414.89		47,712.12	-
375	PH AR 2013 Item no 3.4.29	Supplying all materials,labour and T&P for fixing standard size C. P. towel ring fixed fixed to wooden plugs with cromium plated brass screws complete as per specification.	Nos	152.00	645.22		98,074.05	-
376	PH AR 2013 item no 3.4.30	Supplying all materials,labour and T&P for fixing of liquid soap container - glass container or plastic container with chromium plated brass lid and brackets fixed to wooden plugs with chromium plated brass screws as per specification.	Nos	144.00	2083.53		3,00,027.74	-
377	PH AR 2013 item no 3.4.14	Supplying all materials,labour and T&P for fixing stainless steel AISI 304 [18/8] Kitchen sink as per IS 13983 with cast iron bracket and stainless steel plug including painting of fittings and brackets ,cutting and making good to the walls etc. all as per specification including cost of sink with all accessories.	Nos	106.00	7245.32		7,68,003.71	-
378	PH AR 2013 item no 3.4.24	Supplying fitting fixing of cromium plated CP over head shower rose with arm including polishing and complete as per specification and direction of the Engineer in charge.	Each	144.00	1026.95		1,47,881.38	-
379	PH AR 2013 item no 3.2.16	Supplying all labour and T&P for fixing CP Concealed stop cocks polished bright conforming to IS:781-1995 of the following nominal sizes as per specification all complete.	Each	102.00	1324.90		1,35,140.21	-
380	PH AR 2013 item no 3.4.8	Supplying all materials,labour and T&P for fixing Porcelain Flat Back Stall Type Urinal respectively with waste pipe by means of white lead mixed with chopped hemp etc. all complete as per specification.	Each	116.00	8950.89		10,38,303.24	-
381	NSR	Fixing standard size Chromium Plated brass or glazed porcelain Toilet paper holder fixed to woden plugs with Chromium Plated brass screws complete as per specification and direction of the Engineer in charge.	Each	148.00		1,401.25	-	2,07,385.00
382	NSR	SupplySupply, installing, testing and commissioning of Supply of 1000 Litre HDPE Overhead Water Tank (2-layer, 3-layer, etc.) of approved with UV stabilization, food-grade material & manhole cover complete and commissioning complete with approved quality and make as required as per instruction of site incharge.	Set	36.00		23,600.00	-	8,49,600.00
383		SEPTIC TANK					-	-
384	OSR AR 2006 item no 1a SR 2022	Earth work in excavation of foundation in all kind of soil within 50m. initial lead and 1.5m initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per the direction of the Engineer-in-charge.	Cum	402.06	367.57		1,47,786.66	-
385	OSR AR 2006 item no 15 SR 2022	Supplying & filling foundation and plinth with good quality river sand well watered and rammed including cost of material, labour, carriage, royalty, etc complete as directed by the Engineer-in-charge.	Cum	12.16	1225.43		14,901.23	-
386	OSR AR 2006 item no 3 SR 2022	Providing and laying plain cement concrete of (1:3:6) in foundation and floors using 40mm. size black hard crusher broken granite stone metal and screened and washed sharp sand for mortar of approved quality and from approved quarry including hoisting, lowering, laying concrete, ramming, watering and curing etc. complete including cost, conveyance, royalties and cost of all labours,labour cess, T&P etc complete as per specification & direction of the Engineer-in-charge.	Cum	15.40	7273.99		1,12,034.02	-
387	OSR AR 2006 Concrete Item no - 5 or Centering and Shuttering item no- 10 SR 2022	Providing, lifting, hoisting and laying Reinforced cement concrete of M-25 grade as per approved designs and drawings having a minimum compressive strength (in work test) 250 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned (20mm. size chips not to exceeds 25 %) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T & P required of the work etc. complete in all respect as directed by the Engineer-in-Charge. But excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting, bending etc. of M.S. rods or tor steel tying the grills and placing in proper position.	Cum	33.04	8191.80		2,70,624.17	-
388	OSR AR 2006 item no-9 SR 2022	Providing HYSD reinforcement of approved quality conforming to grade Fe-550D for R.C.C. work including cutting, bending, binding and tying the grills and placing in position including cost of binding wire 18 to 20 gauge and cost and carriage of steel. etc. complete with labour cess, including 5% overlaaping & wastage etc. as directed by the Engineer-in-charge.	Qntl	41.30	10488.31		4,33,114.84	-
389	OSR AR 2006 item no-3 SR 2022	Brick work with Fly ash Bricks 25cm x 12cm x 8cm size having crushing strength not less than 75Kg/cm2 with dimensional tolerance ±2 percent in cement mortar (1:6) in foundation and plinth including watering curing, cost of carriage and royalty of all materials, cost of all labour as directed by the Engineer-in-charge.	Cum	84.27	6741.10		5,68,072.83	-
390	OSR AR 2006 item no-14 SR 2022	Providing 16mm thick C.P. (1:6) over brick masonry to the smooth surface including watering, curing cost, carriage, royalty, and taxes of all materials, cost of all labour, etc complete as per the direction of Engineer-in-charge.	Sqm	547.20	334.41		1,82,990.25	-
391	OSR AR 2006 item no-4 SR 2022	Providing 12 mm thick cement plaster with cement mortar of mix (1:4) with screened and washed sharp sand for mortar and finished smooth to the rough surface of walls punning and bitumen coating including watering and curing with cost, conveyance, royalties of all materials with cost of all labour, and T&P required for the work etc. complete in all respect as directed by the Engineer in charge.	Sqm	141.12	232.22		32,771.45	-
		TOTAL OSR & NSR AMOUNT					11,97,52,813.34	3,19,77,228.92
		TOTAL BOQ AMOUNT						15,17,30,042.26