



Block No.	Area (sq. m)	Load (kW)	Load (kVA)	Transformer Rating (kVA)
Block-1	1200	120	120	125
Block-2	1500	150	150	150
Block-3	1800	180	180	180
Block-4	2000	200	200	200
Block-5	2200	220	220	225
Block-6	2500	250	250	250
Block-7	2800	280	280	280
Block-8	3000	300	300	300
Block-9	3200	320	320	325
Block-10	3500	350	350	350
Block-11	3800	380	380	380
Block-12	4000	400	400	400
Block-13	4200	420	420	425
Block-14	4500	450	450	450
Block-15	4800	480	480	480
Block-16	5000	500	500	500
Block-17	5200	520	520	525
Block-18	5500	550	550	550
Block-19	5800	580	580	580
Block-20	6000	600	600	600
Block-21	6200	620	620	625
Block-22	6500	650	650	650
Block-23	6800	680	680	680
Block-24	7000	700	700	700
Block-25	7200	720	720	725
Block-26	7500	750	750	750
Block-27	7800	780	780	780
Block-28	8000	800	800	800
Block-29	8200	820	820	825
Block-30	8500	850	850	850
Block-31	8800	880	880	880
Block-32	9000	900	900	900
Block-33	9200	920	920	925
Block-34	9500	950	950	950
Block-35	9800	980	980	980
Block-36	10000	1000	1000	1000
Block-37	10200	1020	1020	1025
Block-38	10500	1050	1050	1050
Block-39	10800	1080	1080	1080
Block-40	11000	1100	1100	1100
Block-41	11200	1120	1120	1125
Block-42	11500	1150	1150	1150
Block-43	11800	1180	1180	1180
Block-44	12000	1200	1200	1200
Block-45	12200	1220	1220	1225
Block-46	12500	1250	1250	1250
Block-47	12800	1280	1280	1280
Block-48	13000	1300	1300	1300
Block-49	13200	1320	1320	1325
Block-50	13500	1350	1350	1350
Block-51	13800	1380	1380	1380
Block-52	14000	1400	1400	1400
Block-53	14200	1420	1420	1425
Block-54	14500	1450	1450	1450
Block-55	14800	1480	1480	1480
Block-56	15000	1500	1500	1500
Block-57	15200	1520	1520	1525
Block-58	15500	1550	1550	1550
Block-59	15800	1580	1580	1580
Block-60	16000	1600	1600	1600
Block-61	16200	1620	1620	1625
Block-62	16500	1650	1650	1650
Block-63	16800	1680	1680	1680
Block-64	17000	1700	1700	1700
Block-65	17200	1720	1720	1725
Block-66	17500	1750	1750	1750
Block-67	17800	1780	1780	1780
Block-68	18000	1800	1800	1800
Block-69	18200	1820	1820	1825
Block-70	18500	1850	1850	1850
Block-71	18800	1880	1880	1880
Block-72	19000	1900	1900	1900
Block-73	19200	1920	1920	1925
Block-74	19500	1950	1950	1950
Block-75	19800	1980	1980	1980
Block-76	20000	2000	2000	2000
Block-77	20200	2020	2020	2025
Block-78	20500	2050	2050	2050
Block-79	20800	2080	2080	2080
Block-80	21000	2100	2100	2100
Block-81	21200	2120	2120	2125
Block-82	21500	2150	2150	2150
Block-83	21800	2180	2180	2180
Block-84	22000	2200	2200	2200
Block-85	22200	2220	2220	2225
Block-86	22500	2250	2250	2250
Block-87	22800	2280	2280	2280
Block-88	23000	2300	2300	2300
Block-89	23200	2320	2320	2325
Block-90	23500	2350	2350	2350
Block-91	23800	2380	2380	2380
Block-92	24000	2400	2400	2400
Block-93	24200	2420	2420	2425
Block-94	24500	2450	2450	2450
Block-95	24800	2480	2480	2480
Block-96	25000	2500	2500	2500
Block-97	25200	2520	2520	2525
Block-98	25500	2550	2550	2550
Block-99	25800	2580	2580	2580
Block-100	26000	2600	2600	2600

Block No.	Area (sq. m)	Load (kW)	Load (kVA)	Transformer Rating (kVA)
Block-1	1200	120	120	125
Block-2	1500	150	150	150
Block-3	1800	180	180	180
Block-4	2000	200	200	200
Block-5	2200	220	220	225
Block-6	2500	250	250	250
Block-7	2800	280	280	280
Block-8	3000	300	300	300
Block-9	3200	320	320	325
Block-10	3500	350	350	350
Block-11	3800	380	380	380
Block-12	4000	400	400	400
Block-13	4200	420	420	425
Block-14	4500	450	450	450
Block-15	4800	480	480	480
Block-16	5000	500	500	500
Block-17	5200	520	520	525
Block-18	5500	550	550	550
Block-19	5800	580	580	580
Block-20	6000	600	600	600
Block-21	6200	620	620	625
Block-22	6500	650	650	650
Block-23	6800	680	680	680
Block-24	7000	700	700	700
Block-25	7200	720	720	725
Block-26	7500	750	750	750
Block-27	7800	780	780	780
Block-28	8000	800	800	800
Block-29	8200	820	820	825
Block-30	8500	850	850	850
Block-31	8800	880	880	880
Block-32	9000	900	900	900
Block-33	9200	920	920	925
Block-34	9500	950	950	950
Block-35	9800	980	980	980
Block-36	10000	1000	1000	1000
Block-37	10200	1020	1020	1025
Block-38	10500	1050	1050	1050
Block-39	10800	1080	1080	1080
Block-40	11000	1100	1100	1100
Block-41	11200	1120	1120	1125
Block-42	11500	1150	1150	1150
Block-43	11800	1180	1180	1180
Block-44	12000	1200	1200	1200
Block-45	12200	1220	1220	1225
Block-46	12500	1250	1250	1250
Block-47	12800	1280	1280	1280
Block-48	13000	1300	1300	1300
Block-49	13200	1320	1320	1325
Block-50	13500	1350	1350	1350
Block-51	13800	1380	1380	1380
Block-52	14000	1400	1400	1400
Block-53	14200	1420	1420	1425
Block-54	14500	1450	1450	1450
Block-55	14800	1480	1480	1480
Block-56	15000	1500	1500	1500
Block-57	15200	1520	1520	1525
Block-58	15500	1550	1550	1550
Block-59	15800	1580	1580	1580
Block-60	16000	1600	1600	1600
Block-61	16200	1620	1620	1625
Block-62	16500	1650	1650	1650
Block-63	16800	1680	1680	1680
Block-64	17000	1700	1700	1700
Block-65	17200	1720	1720	1725
Block-66	17500	1750	1750	1750
Block-67	17800	1780	1780	1780
Block-68	18000	1800	1800	1800
Block-69	18200	1820	1820	1825
Block-70	18500	1850	1850	1850
Block-71	18800	1880	1880	1880
Block-72	19000	1900	1900	1900
Block-73	19200	1920	1920	1925
Block-74	19500	1950	1950	1950
Block-75	19800	1980	1980	1980
Block-76	20000	2000	2000	2000
Block-77	20200	2020	2020	2025
Block-78	20500	2050	2050	2050
Block-79	20800	2080	2080	2080
Block-80	21000	2100	2100	2100
Block-81	21200	2120	2120	2125
Block-82	21500	2150	2150	2150
Block-83	21800	2180	2180	2180
Block-84	22000	2200	2200	2200
Block-85	22200	2220	2220	2225
Block-86	22500	2250	2250	2250
Block-87	22800	2280	2280	2280
Block-88	23000	2300	2300	2300
Block-89	23200	2320	2320	2325
Block-90	23500	2350	2350	2350
Block-91	23800	2380	2380	2380
Block-92	24000	2400	2400	2400
Block-93	24200	2420	2420	2425
Block-94	24500	2450	2450	2450
Block-95	24800	2480	2480	2480
Block-96	25000	2500	2500	2500
Block-97	25200	2520	2520	2525
Block-98	25500	2550	2550	2550
Block-99	25800	2580	2580	2580
Block-100	26000	2600	2600	2600

PROJECT : PROPOSED IT PARK FOR M/S ELEGANT IT SOLUTIONS PRIVATE LIMITED PLOT NO-6 SECTOR-K.P.-5 GREATER NOIDA, U.P.

ELECTRICAL LOAD CALCULATION FOR SUB-STATION-3 (FOR RESIDENTIAL BLOCK)

	ESS-3	FOR COMMON AREA	TOTAL ESS-3
1. Substation Transformer Calculation			
Minimum Demand load of the complex on each substation	671 KW	306 KW	975 KW
Over all diversity of 85% Minimum Demand	570 KW	260 KW	830 KW
Minimum Demand load in KVA @ 0.8 P.F.	614 KVA	287 KVA	901 KVA
Required Transformer KVA @ 80 % Transformer Loading	592 KVA	289 KVA	881 KVA
Proposed Transformer Capacity Rating	1Nos 800 KVA TRANSFORMER	1Nos 500 KVA TRANSFORMER	
TOTAL MAXIMUM DEMAND LOAD IN KVA FOR ESS-3 (654KW+ 287KVA)			941 KVA