

**ELECTRICAL LOAD CALCULATION - LANDCRAFT METRO HOMES AT MODINAGAR,
GHAZIABAD**

S.no	Description	No. of unit	Load per Unit			Total Load		
	Block A & B (S+12)	Nos of Tower			=	2		
1	3 BHK (TYPE - 5) (65.0 sq M @ 50 W/sqM = 3.25 KW)	120	units	@	3.3	KW	=	390 KW
	2 BHK (TYPE - 4) (56.0 sq M @ 50 W/sqM = 2.80 KW)	144	units	@	2.8	KW	=	403 KW
	Block C (S+12)	Nos of Tower			=	1		
3	3 BHK (TYPE - 5) (65.0 sq M @ 50 W/sqM = 3.25 KW)	60	units	@	3.3	KW	=	195 KW
	2 BHK (TYPE - 4) (56.0 sq M @ 50 W/sqM = 2.80 KW)	96	units	@	2.8	KW	=	269 KW
	Block D & J (S+12)	Nos of Tower			=	2		
5	2 BHK (TYPE - 3) (47.0 sq M @ 50 W/sqM = 2.35 KW)	168	units	@	2.4	KW	=	395 KW
	2 BHK (TYPE - 2) (42.0 sq M @ 50 W/sqM = 2.10 KW)	96	units	@	2.1	KW	=	202 KW
7	1 BHK (TYPE - 1) (38.0 sq M @ 50 W/sqM = 1.90 KW)	72	units	@	1.9	KW	=	137 KW
	Block E & H (S+12)	Nos of Tower			=	2		
8	1 BHK (TYPE - 1) (38.0 sq M @ 50 W/sqM = 1.90 KW)	264	units	@	1.9	KW	=	502 KW
	Block F (S+13)	Nos of Tower			=	1		
9	2 BHK (TYPE - 3) (47.0 sq M @ 50 W/sqM = 2.35 KW)	116	units	@	2.4	KW	=	273 KW
	2 BHK (TYPE - 2) (42.0 sq M @ 50 W/sqM = 2.10 KW)	52	units	@	2.1	KW	=	109 KW
	Block G (S+13)	Nos of Tower			=	1		
11	2 BHK (TYPE - 3) (47.0 sq M @ 50 W/sqM = 2.35 KW)	113	units	@	2.4	KW	=	266 KW
	2 BHK (TYPE - 2) (42.0 sq M @ 50 W/sqM = 2.10 KW)	48	units	@	2.1	KW	=	101 KW

ELECTRICAL LOAD CALCULATION - LANDCRAFT METRO HOMES AT MODINAGAR,
GAZIABAD

S.no	Description		No. of unit		Load per Unit		Total Load	
	COMMON SERVICES - TOWERS							
	Block A & B (S+12)		Nos of Tower		=	2		
13	Elevators (13 Passenger) 1.0 mps		4	nos	@	7	KW	= 28 KW
14	Common Lights		2	towers	@	4	KW	= 8 KW
	Block C (S+12)		Nos of Tower		=	1		
15	Elevators (13 Passenger) 1.0 mps		2	nos	@	7	KW	= 14 KW
16	Common Lights		1	towers	@	4	KW	= 4 KW
	Block D & J (S+12)		Nos of Tower		=	2		
17	Elevators (13 Passenger) 1.0 mps		4	nos	@	7	KW	= 28 KW
18	Common Lights		2	towers	@	4	KW	= 8 KW
	Block E & H (S+12)		Nos of Tower		=	2		
19	Elevators (13 Passenger) 1.0 mps		4	nos	@	7	KW	= 28 KW
20	Common Lights		2	towers	@	4	KW	= 8 KW
	Block F (S+13)		Nos of Tower		=	1		
21	Elevators (13 Passenger) 1.0 mps		2	nos	@	7	KW	= 14 KW
22	Common Lights		1	towers	@	4	KW	= 4 KW
	Block G (S+13)		Nos of Tower		=	1		
23	Elevators (13 Passenger) 1.0 mps		2	nos	@	7	KW	= 14 KW
24	Common Lights		1	towers	@	4	KW	= 4 KW

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S.no	Description		No. of unit		Load per Unit			Total Load	
	<u>COMMON SERVICES - General</u>								
25	Water Supply / Tube wells		1	job	@	80	KW	=	80 KW
26	External / Gate / Landscape lighting							=	10 KW
27	Anganwadi							=	15 KW
28	Suvidhajanak Dukans & Kiosk							=	75 KW
29	Community							=	30 KW
30	School							=	125 KW
31	STP		1	job	@	60	KW	=	60 KW
32	Fire pumps (only jockey pumps have been considered)		2	nos	@	10	KW	=	20 KW
							Total Load	=	3817 KW

**ESSENTIAL ELECTRICAL LOAD CALCULATION - LANDCRAFT METRO HOMES AT
MODINAGAR, GHAZIABAD**

S.no	Description	No. of unit	Load per Unit		Total Load	
Sub Head (A) - Apartments						
	Block A & B (S+12)	Nos of Tower		=	2	
1	3 BHK (TYPE - 5)	120	units	@ 1.00	KW	= 120 KW
2	2 BHK (TYPE - 4)	144	units	@ 1.00	KW	= 144 KW
	Block C (S+12)	Nos of Tower		=	1	
3	3 BHK (TYPE - 5)	60	units	@ 1.00	KW	= 60 KW
4	2 BHK (TYPE - 4)	96	units	@ 1.00	KW	= 96 KW
	Block D & J (S+12)	Nos of Tower		=	2	
5	2 BHK (TYPE - 3)	168	units	@ 1.00	KW	= 168 KW
6	2 BHK (TYPE - 2)	96	units	@ 1.00	KW	= 96 KW
7	1 BHK (TYPE - 1)	72	units	@ 1.00	KW	= 72 KW
	Block E & H (S+12)	Nos of Tower		=	2	
8	1 BHK (TYPE - 1)	264	units	@ 1.00	KW	= 264 KW
	Block F (S+13)	Nos of Tower		=	1	
9	2 BHK (TYPE - 3)	116	units	@ 1.00	KW	= 116 KW
10	2 BHK (TYPE - 2)	52	units	@ 1.00	KW	= 52 KW
	Block G (S+13)	Nos of Tower		=	1	
11	2 BHK (TYPE - 3)	113	units	@ 1.00	KW	= 113 KW
12	2 BHK (TYPE - 2)	48	units	@ 1.00	KW	= 48 KW
					Total Load	= 1349 KW
	By taking Overall Diversity factor				90 % =>	1214 KW
	By taking Power factor				0.80 =>	1518 KVA
	Essential Load (A)				=	1520 KVA
	Sub Head (B) - (Common services)					
	COMMON SERVICES - TOWERS					
	Block A & B (S+12)	Nos of Tower		=	2	
13	Elevators (16 Passenger) 1.5 mps	4	nos	@ 7	KW	= 28 KW
14	Common Lights	2	towers	@ 4	KW	= 8 KW
	Block C (S+12)	Nos of Tower		=	1	
15	Elevators (16 Passenger) 1.5 mps	2	nos	@ 7	KW	= 14 KW
16	Common Lights	1	towers	@ 4	KW	= 4 KW

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18	Common Lights		2	towers	@	4	KW	=	8 KW
	Block E & H (S+12)		Nos of Tower			=	2		
19	Elevators (16 Passenger) 1.5 mps		4	nos	@	7	KW	=	28 KW
20	Common Lights		2	towers	@	4	KW	=	8 KW
	Block F (S+13)		Nos of Tower			=	1		
21	Elevators (16 Passenger) 1.5 mps		2	nos	@	7	KW	=	14 KW
22	Common Lights		1	towers	@	4	KW	=	4 KW
	Block G (S+13)		Nos of Tower			=	1		
23	Elevators (16 Passenger) 1.5 mps		2	nos	@	7	KW	=	14 KW
24	Common Lights		1	towers	@	4	KW	=	4 KW
COMMON SERVICES - General									
25	Water Supply / Tube wells		1	job	@	80	KW	=	80 KW
26	External / Gate / Landscape lighting							=	10 KW
27	Anganwadi							=	15 KW
28	Suvidhajanak Dukans & Kiosk							=	75 KW
29	Community							=	30 KW
30	School							=	125 KW
31	STP		1	job	@	60	KW	=	60 KW
32	Fire pumps (only jockey pumps have been considered)		2	nos	@	10	KW	=	20 KW
			Total Load					=	577 KW
			By taking Overall Diversity factor					60 % =>	346 KW
			By taking Power factor					0.80 =>	430 KVA
			Essential Load (B)					=	430 KVA
			Total Essential Load : (A + B)			=	1950 KVA		