

S.No.	AREA STATEMENT	Area	SQ.M
1	PLOT AREA	42,406.000	SQ.M
2	PERMISSIBLE GROUND COVERAGE (40% OF PLOT AREA)	16,962.400	SQ.M
3	PERMISSIBLE F.A.R. @ 0.8	337,138.000	SQ.M
5	PERMISSIBLE SERVICE AREA (15% OF PERM. FAR)	50,570.700	SQ.M
6	PROPOSED GROUND COVERAGE (18.33%)	7,773,136	SQ.M
7	PROPOSED F.A.R. @ 2.99	127,189.818	SQ.M
8	PROPOSED SERVICE AREA (14.80%)	6,266,642	SQ.M
4	PERM. COMMERCIAL FAR (5% OF PERM. FAR)	1,727,580	SQ.M
5	PROP. COMMERCIAL FAR (0.9%)	1,269,964	SQ.M
6	ECs REQUIRED @ 1 EC/80 SQ.M	1,588,623	NOS.
7	ECs PROVIDED	2,190,000	NOS.
8	OPEN AREA = PLOT AREA - GR. COVERAGE	25,443,600	SQ.M
9	GREEN AREA (50% OF OPEN AREA)	12,721,800	SQ.M
10	PROPOSED GREEN AREA (50.12%)	12,750,000	SQ.M
11	NOS. OF TREE REQUIRED = 1 TREE/100 SQ.M OF OPEN AREA	254,436	NOS.
12	NOS. OF TREE PROVIDED	384,000	NOS.
13	PERMISSIBLE DENSITY	1,600	PPHA
14	PERMISSIBLE DU (Dwelling Unit)	6,996,900	POPULATION
15	PROPOSED DUS	1,132	DUS
16	PROPOSED BASEMENT AREA (SERVICE AREA + NON FAR)	37,414,535	SQ.M
17	PROPOSED ST. LT AREA (NON F.A.R.)	4,202,072	SQ.M
18	PROPOSED POCUM AREA (NON F.A.R.)	18,914,801	SQ.M
19	PROPOSED POCUM AREA (NON F.A.R.)	35,747,885	SQ.M
20	TOTAL COVERED AREA	204,861,258	SQ.M

COVERED AREA CALCULATION		Area	SQ.M
PROPOSED F.A.R.	127,189.818	SQ.M	
PROPOSED SERVICE AREA	18,826,682	SQ.M	
ST. LT AREA (NON FAR)	4,202,072	SQ.M	
POCUM AREA (NON FAR)	18,914,801	SQ.M	
BASEMENT AREA (NON FAR)	35,747,885	SQ.M	
TOTAL COVERED AREA	204,861,258	SQ.M	

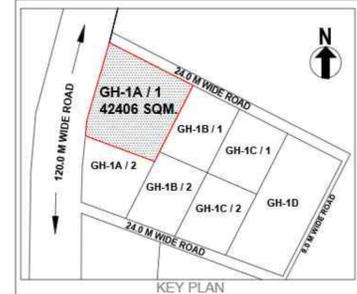
S.No.	Description	Area	Load per Unit	Total Load
7	Commercial	1270 sq m	150.0 W/sqm	190 KW
Total Load =				190 KW
By taking Overall Diversity factor 75 % =>				143 KW
By taking Power factor 0.90 =>				159 KVA
Total Demand Load =				159 KVA
Transformer Loading 80 % =>				199 KVA
Recommended Transformers =				2 nos 160 KVA, 110.433 KV

SUBSTATION SUMMARY				
S.No	Description	Nos. of	Total Load	Equipments Selection
CALCULATION FOR TRANSFORMERS				
1	Consumer Load	1112	= 3254 KVA	Recommended Transformers = 3 nos 1600 KVA
2	Common Services	= 2103	KVA	Recommended Transformers = 2 nos 1600 KVA
Total		1112	= 5357 KVA	Recommended DG Sets = 3 nos 1250 KVA 1 no. 500 KVA
3	Commercial	= 159	KVA	Recommended Transformers = 2 nos 160 KVA
Total				Recommended DG Sets = 2 nos 125 KVA

ELECTRICAL LEGENDS	
	33KV HT CABLE
	11KV HT CABLE
	LT CABLE

S.No.	Description	Nos. of	Load per Unit	Total Load
Residential Load (A)				
1	1 BRK UNIT (2ND TO 20RD)	200	1.84 KW	= 368 KW
2	TYPE-A4 (3 BRK WITH 3 TOILET)	400	5.32 KW	= 2128 KW
3	TYPE-A3 (3 BRK WITH 3 TOILET)	100	6.33 KW	= 633 KW
4	TYPE-A2 (3 BRK WITH 3 TOILET + SERVANT + STUDY)	200	7.51 KW	= 1502 KW
5	TYPE-A1 (4 BRK + TOILET + FAMILY LAUNDRY + SERVANT WITH TOILET)	46	11.37 KW	= 523 KW
By taking Overall Diversity Factor 50 % =>				2939 KW
By taking Power factor 0.90 =>				3254 KVA
Total Electrical Load (A) =				3254 KVA

S.No.	Description	Total Load in KW	Total Demand Load in KW	Remarks
1	Commercial	190	159	
2	Residential	2939	1469.5	
3	Common Services	2103	1051.5	
4	Commercial	159	159	
5	Commercial	159	159	
6	Commercial	159	159	
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97	Commercial	159	159	
98	Commercial	159	159	
99	Commercial	159	159	
100	Commercial	159	159	



CLIENT :- M/S PURVANCHAL PROJECTS PVT.LTD.
 PROJECT :- PROPOSED GROUP HOUSING AT PLOT NO. GH-1A/1, SECTOR - 22D, YAMUNA EXPRESSWAY INDUSTRIAL DEVELOPMENT AUTHORITY, (YEIDA) GAUTAM BUDDH NAGAR, U.P.
 NORTH :-
 ARCHITECT :- DEVELOPMENTS CONSULTANT (Architects, Engineers Urban Designers)
 DATE :- DEC/2024
 SCALE :- 1 : 300
 Ph. +91-11-2825 4580 / 44048894

■ SUBMISSION DRAWING

SHEET TITLE :-	
ELECTRICAL LAYOUT	
OWNER'S SIGN	ARCHITECT SIGN
	DRG. NO. :- S-04