



LOAD CALCULATION								
Sr No.	Tower	Total Floors	Area in SQ Meter	Area in sq Ft	Load density watt / sq ft	CL (KW)	Div	IMD (KW)
	Load Taken as per UPERC							
	For Domestic -500W/10 Sqmtrs							
	For commercial 1500W/10sq meter							
1	1	2B + G + 19	7621.537	82007.7	0.5	381	0.5	191
2	2	2B + G + 19	9035.030	97216.9	0.5	452	0.5	226
3	3	2B + G + 19	7655.261	82370.6	0.5	383	0.5	191
4	4	2B + G + 19	7400.672	79631.2	0.5	370	0.5	185
5	5	2B + G + 19	7655.261	82370.6	0.5	383	0.5	191
6	6	2B + G + 19	9035.030	97216.9	0.5	452	0.5	226
7	7	2B + G + 19	7614.565	81932.7	0.5	381	0.5	190
8	Commercial	G	507.063	5456.0	1.5	76	0.75	57
9	Community	G	673.012	7241.6	1.5	101	0.75	76
10	Upper Basement	1	10855.840	116808.8	0.6	651	0.8	52
11	Lower Basement	1	10808.354	116298.0	0.6	649	0.8	519
12	Stilt	1	1594.430	17156.1	0.5	80	0.8	64
13	Guard Room		18.000	193.7	0.5	1	0.5	0
	External Lighting					60	0.6	36
	Plumbing Load					70	0.6	42
	Ventilation Load					150	0.7	105
	STP					80	0.8	64
	Fire Fighting					150	-	15
	Lift 14No @12.5 KW					175	1	175
	Miscellaneous					100	1	100
	Grand Total		80474.064	865900.9				3174.30
	OVERALL DIVERSITY @ 60%			1904.6				
	SELECTION OF SIZE OF TRANSFORMER							
	KVA Rating = K.W./p.f.		=	2116.2				
	Size of Transformer Considering loading @ 85%		=	2489.6				
			Say	2490.0				
HENCE SELECT 2 NOS. 1250 KVA, 11 KV/433V DRY TYPE TRANSFORMERS.								
S. No.	DESCRIPTION			TOTAL				
	CONSIDER FLAT 65% loading for DG sets		SAY	1238.0				
	KVA Rating = K.W./p.f.		=	1375.5				
	G SET RATING @ 85% LOADING (1452 KVA / 0.85)			1456.4				
			SAY	1456.0				
HENCE SELECT 2 NOS. 750 KVA, 415 V DG SETS.								

SERVICE DRAWING	
PROJECT PROPOSED GROUP HOUSING AT PLOT NO - GH - 16 - D, SECTOR-01, G. NOIDA, U.P.	
CLIENT ALPINE INFRA PROJECTS PVT.LTD.	
SHEET TITLE	
SITE PLAN ELECTRICAL LAYOUT PLAN	
DATE 28-03-18	DRG.NO. EL-01
SCALE 1:400	NORTH
OWNERS SIGN	ARCHITECT'S SIGN
ARCHITECTS SPACE DESIGN GROUP W-138, P.F. CREATOR KALASHI, NEW DELHI-48 PH: 011-26240732, 41631265 EMAIL: spacedesigngroup@rediffmail.com, csnr@gmail.com	