



**Electrical Load Calculation\_Retail Area+ Basements+Ventilation+PHE+Fire fighting+External Lighting\_PVVNL (13.94W per Sqft for commercial Building)**

S. No.	Description	Area (FAR+ Basement) (sq ft)	Persantage Considered as per PVVNL (%)	Constructed area considered for load calculation (sq ft)	Load @ 13.94 W / sq.ft (KW)	Misc Load (KW)	Total Load (KW)
I							
1	Basement ( Car parking)	31753	50%	15876.4	221		221
2	Retail Area	72791	100%	72791.4	1015		1015
	<b>Total ( I )</b>						<b>1236</b>
II	<b>PHE &amp; Fire Fighting</b>						
1	Plumbing Pump+ STP+Sump Pump+Water					40	40
2	Fire Fighting Pumps (115 KW)					115	115
	<b>Total ( II )</b>						<b>55</b>
III	<b>LIFT</b>						
1	Lift @ 3 Nos					30	30
	<b>Total ( III )</b>						<b>30</b>
IV	<b>EXTRNL LIGHTING</b>						
1	Security / boundary Lighting					2	2
2	Landscape / Facade Lighting					5	5
	<b>Total ( IV )</b>						<b>7</b>
<b>Transformer Selection</b>							
Total Connected Load ( I+II+III+IV)							1328
Diversity Factor as per PVVNL							75%
Total Maximum Demand Load (KW)							996
Total Maximum Demand Load ( @ 0.9 P.F.)							<b>1066 KVA</b>
Loading Factor (@85%)							<b>1254 KVA</b>
<b>Recommended CSS Rating (11/0.415 KV) 1 nos 1250 KVA with on Load tapchanger</b>							

**GYGY NOIDA COMMERCIAL SEC-50**

TOTAL PLOT AREA	=	3000	SQMT
Permissible ground coverage @50%	=	1500.000	SQMT
Proposed Ground coverage	=	1498.500	SQMT
Permissible F.A.R	=	6000	SQMT
Proposed F.A.R	=	5999.286	SQMT
Permissible 15% Service F.A.R	=	900	SQMT
Proposed Service F.A.R	=	899.82	SQMT
Permission Tree@ 1 for every 100sqmt of open area	=	0.000	Nos
Proposed Tree	=	16	Nos

**FLOOR WISE AREA DETAIL**

S.NO	FLOOR	FAR SQMT	NON FAR		AREA UNDER 15% OF FAR SERVICE AREA	Total Built - up
			BASEMENT AREA	BALCONY/TERRACE AREA		
1	BASEMENT-3		1397.650		325	1722.650
2	BASEMENT-2		1617.350		105.300	1722.650
3	BASEMENT-1	1284.668	167.18		105.615	1557.463
4	GROUND FLOOR	1350.944		46.34	62.251	1459.535
5	FIRST FLOOR	1348.165		135.9	75.25	1559.315
6	SECOND FLOOR	1013.877		131.45	75.25	1220.577
7	THIRD FLOOR	624.000			75.25	699.250
8	FOURTH FLOOR	377.631			75.25	452.881
	<b>TOTAL</b>	<b>5999.29</b>	<b>3182.18</b>	<b>313.69</b>	<b>899.166</b>	<b>10394.321</b>

**FOR SUBMISSION**

CLIENT  
GYGY DEVELOPERS PVT.LTD

PROJECT  
GYGY FIVEO AT PLOT NO. 1B,  
BLOCK NO - F, SECTOR -50

PRINCIPLE ARCHITECT  
**DESIGN FORUM INTERNATIONAL**  
K-47 KALASHI COLONY NEW DELHI-110048  
PHONE: 011-48999000, 914-89999077

MEP CONSULTANTS  
**EMPS DESIGNS**  
PLOT NO.36, GROUND FLOOR, ASHINSHA KHAND-II,  
INDRAPURAM, CHAZIDABAD  
PH. NO. 1204272396  
Email ID: empsdesigns@gmail.com

DRAWING TITLE:  
**ELECTRICAL SITE PLAN**

NORTH

SCALE 1:150

DATE 06.09.2024

**SITE PLAN**