NORTH

45 MT. WIDE ROAD

30.00 MT. WIDE GREEN BELT

LVL. + 330
50 MT. WIDE ROAD

U.G.T. & PUMP ROOM

U.G.T. & PUMP HOUSE
TOTAL CAP : - 430 KL
FIRE FIGHTING : - 200 KL
DOMESTIC : - 230 KL

S.T.P. BELOW

SEWAGE TREATMENT PLANT CAP: - 425 KLD

TOWER - EL
2 BASEMENT
+ GROUND
+ 16 FLOOR

PARKING RESERVE FOR L.I.G.= 36 CAR

11 / 0.415 KV
2 Nos. 1250 KVA CSS

2 NoS. 320 KVA DG SET

1 No. 600 KVA DG SET

DG EXHAUST PIPE SHALL RUN FROM FIRST FLOOR ROOF LEVEL

1 nos. DG Exhaust pipe of 300 mm Ø (ID) 500 mm Ø (OD) & 2 nos. DG Exhaust pipe of 250 mm Ø (ID) 460 mm Ø (OD) with 75 mm Insulation all around.

ALL DG EXHAUST PIPE RUN UP TO THE TERRACE WITH CLAMPING SUPPORT OVER WALL

7.50 MT.WIDE ROAD

BLOCK - 01
TOWER - B
2 BASEMENT
+ GROUND
+ 23 FLOOR

TOWER-B

TOWER-A

BLOCK - 01
TOWER - A
2 BASEMENT
+ GROUND
+ 23 FLOOR

7.50 MT.WIDE ROAD

7.50 MT.WIDE ROAD

LAYOUT GREEN

FIRE TENDER PATH

PROPOSED CLUB AREA
412 SQ. MT.

12.00 MT.WIDE ROAD

BLOCK - 01
TOWER - C
2 BASEMENT
+ GROUND
+ 23 FLOOR

TOWER-C

FIRE TENDER PATH

LAND ESCAPED AREA

CLUB ON 23RD FLOOR

FIRE TENDER PATH

BLOCK - 02
TOWER - D
2 BASEMENT
+ GROUND
+ 23 FLOOR

12.00 MT.WIDE ROAD

COMMERCIAL SPACE

PHASE - 2
FOR FUTURE PROVISION

CUT OUT

BLOCK - 02
TOWER - F
2 BASEMENT
+ GROUND
+ 23 FLOOR

BLOCK - 02
TOWER - E
2 BASEMENT
+ GROUND
+ 23 FLOOR

7.50 MT.WIDE ROAD

PARKING

7.50 MT.WIDE ROAD

LVL. + 300

10% PARKING RESERVE FOR VISITORS

11 KV HT METER

11 KV VCB

6% PARKING RESERVE FOR VISITORS

ENTRY

EXIT

± 0.00 LVL.

LVL. + 300

12.00 MT.WIDE ROAD

10% PARKING RESERVE FOR VISITORS

LAYOUT GREEN
17251.712 SQM

project
MARINA SUITES AT PLOT NO.- GH-3/1, ADITYA CITY, NH-24 GHAZIABAD

title
LAYOUT PLAN

subtitle
ELECTRICAL SETTING-OUT PLAN

drawing released for
- ☐ APPROVAL
- ☐ ADVANCE COPY
- ■ SUBMISSION
- ☐ CONSTRUCTION

drg. no. MS / 15B03 / ES - 05

scale 1 : 450

date 02.06.2018

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PROJECT - MARINA SUITES, NH-24, GHAZIABAD												
Electrical load Calculation												
S.no	**Description**		**No. of unit**		**Load per Unit**			**Total Load**				
	Tower A		**No. of Tower**			**=**	**1**					
1	2 BHK + 2 TOI. (TYPE 1) (60.2 sq M @ 50 W/sqM = 3.01 KW)		24	units	@	3.01	KW		=	72	KW
2	2 BHK + 2 TOI. (TYPE 2) (65.1 sq M @ 50 W/sqM = 3.25 KW)		143	units	@	3.25	KW		=	465	KW
3	3 BHK + 3 TOI. (TYPE 2) (100.9 sq M @ 50 W/sqM = 5.04 KW)		46	units	@	5.04	KW		=	232	KW
4	3 BHK + Store + 2 TOI. (TYPE 1) (91.4 sq M @ 50 W/sqM = 4.57 KW)		24	units	@	4.57	KW		=	110	KW
	Tower B		**No. of Tower**			**=**	**1**					
5	2 BHK + 2 TOI. (TYPE 1) (59.6 sq M @ 50 W/sqM = 2.98 KW)		215	units	@	2.98	KW		=	641	KW
6	2 BHK + Study + 2 TOI. (TYPE 1) (77.7 sq M @ 50 W/sqM = 3.88 KW)		24	units	@	3.88	KW		=	93	KW
	Tower C		**No. of Tower**			**=**	**1**					
7	2 BHK + 2 TOI. (TYPE 2) (64.8 sq M @ 50 W/sqM = 3.24 KW)		119	units	@	3.24	KW		=	386	KW
8	2 BHK + Study + 2 TOI. (TYPE 2) (81.1 sq M @ 50 W/sqM = 4.05 KW)		24	units	@	4.05	KW		=	97	KW
9	2 BHK + Study + 2 TOI. (TYPE 3) (86.5 sq M @ 50 W/sqM = 4.33 KW)		48	units	@	4.33	KW		=	208	KW
	COMMON SERVICES - TOWERS											
	Tower A		**No. of Tower**			**=**	**1**					
10	Elevators		3	nos	@	15	KW		=	45	KW
11	Common Lights		1	towers	@	5	KW		=	5	KW
	Tower B		**No. of Tower**			**=**	**1**					
12	Elevators		3	nos	@	15	KW		=	45	KW
13	Common Lights		1	towers	@	5	KW		=	5	KW
	Tower C		**No. of Tower**			**=**	**1**					
14	Elevators		3	nos	@	15	KW		=	45	KW
15	Common Lights		1	towers	@	5	KW		=	5	KW
	COMMON SERVICES - General											
16	Tube wells / Water Supply Pumps								=	25	KW
17	STP								=	25	KW
18	External / Gate / Landscape lighting		1	Set	@	10	KW		=	10	KW
19	Basement lights (2B)								=	10	KW
20	Basement Ventillation								=	100	KW

PROJECT - MARINA SUITES, NH-24, GHAZIABAD

Electrical load Calculation

S.no	Description	No. of unit		Load per Unit				Total Load		
21	Community / Club							=	25	KW
22	Commercial							=	25	KW
23	Fire pumps (only jockey pumps have been considered)	1	set	@	15	KW		=	15	KW
						Total Load		**=**	**2688**	**KW**
						By taking Overall Diversity factor	**70**	**%**	**=>**	**1882**	**KW**
						By taking Power factor	**0.90**		**=>**	**2090**	**KVA**

Total Electrical Load = 2090 KVA

Recommended Transformers = 2 nos. 1250 KVA each.

PROJECT - MARINA SUITES, NH-24, GHAZIABAD

Essential Electrical load Calculation

S.no	Description	No. of unit			Load per Unit			Total Load		
	Sub Head (A)									
	Tower A	**No. of Tower**			**=**	**1**				
1	2 BHK + 2 TOI. (TYPE 1)	24	units	@	1.00	KVA		=	24	KVA
2	2 BHK + 2 TOI. (TYPE 2)	143	units	@	1.00	KVA		=	143	KVA
3	3 BHK + 3 TOI. (TYPE 2)	46	units	@	1.00	KVA		=	46	KVA
4	3 BHK + Store + 2 TOI. (TYPE 1)	24	units	@	1.00	KVA		=	24	KVA
	Tower B	**No. of Tower**			**=**	**1**				
5	2 BHK + 2 TOI. (TYPE 1)	215	units	@	1.00	KVA		=	215	KVA
6	2 BHK + Study + 2 TOI. (TYPE 1)	24	units	@	1.00	KVA		=	24	KVA
	Tower C	**No. of Tower**			**=**	**1**				
7	2 BHK + 2 TOI. (TYPE 2)	119	units	@	1.00	KVA		=	119	KVA
8	2 BHK + Study + 2 TOI. (TYPE 2)	24	units	@	1.00	KVA		=	24	KVA
9	2 BHK + Study + 2 TOI. (TYPE 3)	48	units	@	1.00	KVA		=	48	KVA
					Total Load			**=**	**667**	**KVA**
					By taking overall Diversity factor		**100 %**	**=>**	**667**	**KVA**
	Essential Load (A) = 670 KVA									
	Sub Head (B)									
	COMMON SERVICES - TOWERS									
	Tower A	**No. of Tower**			**=**	**1**				
10	Elevators	3	nos	@	15	KW		=	45	KW
11	Common Lights	1	towers	@	5	KW		=	5	KW
	Tower B	**No. of Tower**			**=**	**1**				
12	Elevators	3	nos	@	15	KW		=	45	KW
13	Common Lights	1	towers	@	5	KW		=	5	KW
	Tower C	**No. of Tower**			**=**	**1**				
14	Elevators	3	nos	@	15	KW		=	45	KW
15	Common Lights	1	towers	@	5	KW		=	5	KW

	COMMON SERVICES - General									
16	Tube wells / Water Supply Pumps							=	25	KW
17	STP							=	25	KW
18	External / Gate / Landscape lighting	1	Set	@	10	KW		=	10	KW
19	Basement lights (2B)							=	10	KW
20	Basement Ventillation							=	100	KW
21	Community / Club							=	25	KW
22	Commercial							=	25	KW
23	Fire pumps (only jockey pumps have been considered)	1	set	@	15	KW		=	15	KW
					Total Load			**=**	**385**	**KW**
					By taking Overall Diversity factor	**70**	**%**	**=>**	**270**	**KW**
					By taking Power factor	**0.80**		**=>**	**340**	**KVA**

Essential Load (B) =	**340**	**KVA**
Total Essential Load (A + B) =	**1010**	**KVA**

Recommended DG Sets = "2 nos 320 KVA & 1 no. 600 KVA"