

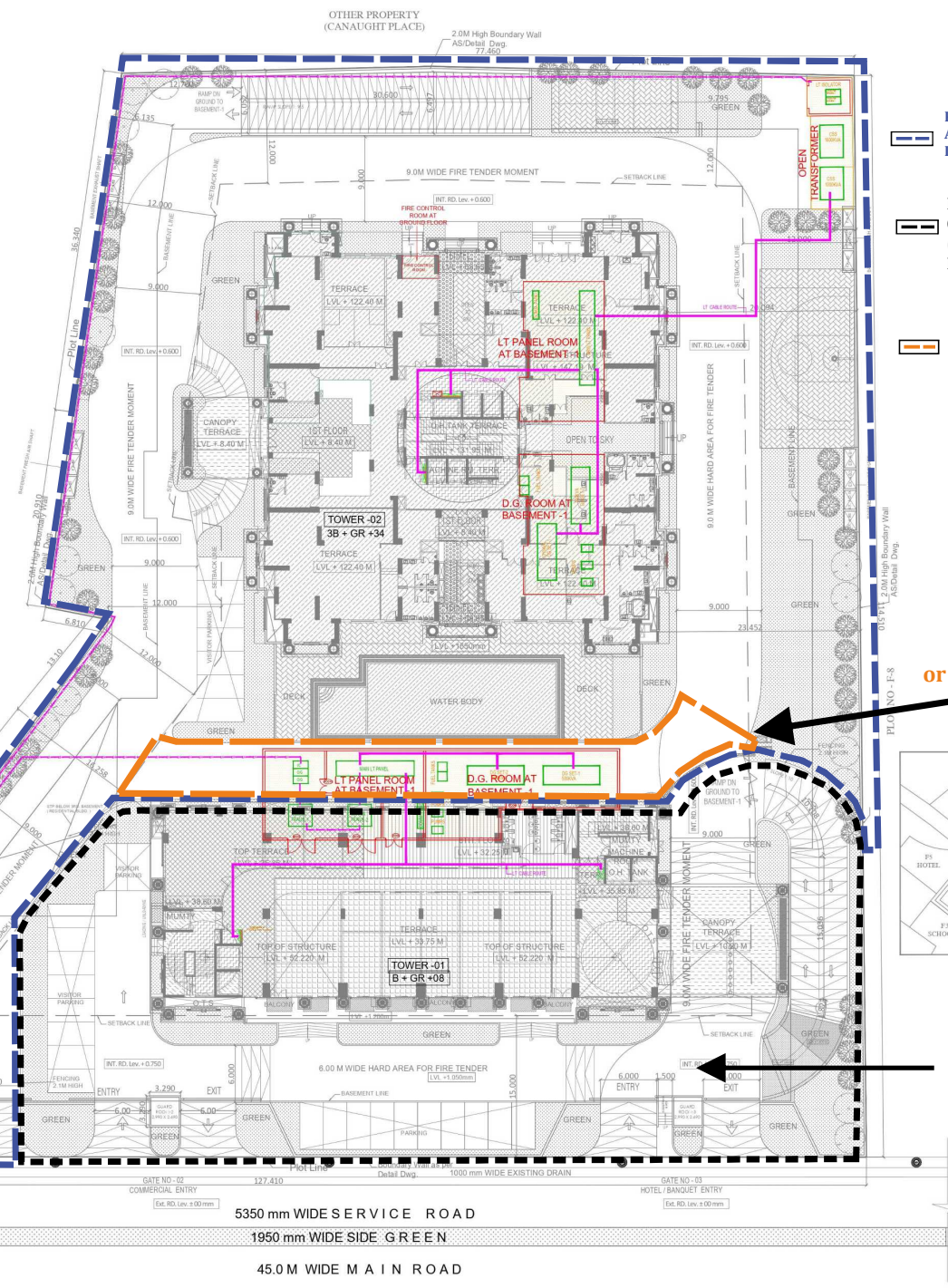
SUBSTATION SUMMARY				
S.No	Description	No. of Unit	Total Load	Equipment Selection
CALCULATION FOR TRANSFORMERS				
1	Consumer Load	1112	1167 KVA	Recommended Transformers = 1 nos 1600 KVA
2	Common Services	844	874 KVA	Recommended Transformers = 1 nos 1000 KVA
	Total	1956	2041 KVA	1 nos 1600 KVA + 1 nos 400 KVA
3	Commercial	1104	1164 KVA	Recommended Transformers = 2 nos 600 KVA
				Recommended 500 KVA + 2 nos 500 KVA

Electrical Load Calculation (Consumer)			
S.No	Description	No. of unit	Total Load
Residential Load (A)			
1	5 BHK + Lounge UNIT	136 Units @ 15.45 KW	2101 KW
	Carpent Area + 50% Balcony		
	(209.0385 sq m @ 50 W/m ²) [6.166 KW]		1296 KW
	Total Load		3401 KW
	By taking Overall Diversity factor	50 % =>	1681 KW
	By taking Power factor	0.90 =>	1867 KVA
	Total Electrical Load (A) =		357 KVA
	Required KVA Rating of TF @ 80% Loading factor		469
	Recommended Transformer KVA Ratings		1 nos 1600
	Transformer Loading Achieved		72.96%

COMMON SERVICES LOAD				
S.No	DESCRIPTION	Total Load (in KW)	D.F.	Total Maximum Demand (in KW)
Plant/FAR				
1	Water	1779.85		
2	Electric Load (LTV) @ 500W/100sqm	434.47	0.80	347.58
3	Common Lighting including Sire, Generator & Other	60	0.80	48.00
4	Material Handling LVS	2787.178		
5	Electric Load (LTV) @ 500W/100sqm	136.36	0.80	109.09
6	STP Load	80.00	0.70	56.00
7	Fire Fighting Purge Load	100	0.10	10.00
8	Escalator presentation fan, Lift, Wall presentation	186.0	0.10	18.60
9	EV Charging 10% of 427 + 43 Cars @ 7.2 KW	308.8	0.20	61.76
10	Sub. @ 15% of total	100	0.80	80.00
11	Lighting Load	100	0.80	80.00
12	Signage & other loads	100	0.80	80.00
	TOTAL (Common Services)	2948.29		239.34
	Total Demand Load			379.34
	KVA Rating after taking Power Factor @ 0.9			461.71
	Required KVA Rating (75% @ 80% Loading factor)			648.60
	Recommended Transformer KVA Ratings			1 nos 1600
	Transformer Loading Achieved			64.37%

Electrical Load Calculation (Commercial)				
S.No	Description	Area	Load per Unit	Total Load
Commercial Load (B)				
1	Commercial	1322.525 sqm @ 150.0 W/m ²	198.4	262 KW
	Total Load			262 KW
	By taking Overall Diversity factor		75 % =>	196.5 KW
	By taking Power factor 0.90		0.90 =>	218.3 KVA
	Electrical Load Sub Head (B) KVA			218.3 KVA
	Total Demand Load			1240 KVA
	Transformer Loading 80 % =>			1550 KVA
	Recommended Transformers = 2 nos 800 KVA, 1 no 433 KW			

Purvanchal Royal Atlantis
Phase - 1
Residential Apartment
Applied for UP RERA
Registration
Land Area 7087 sqm
approx.



Phase - 1 Residential Apartment
Applied for UP RERA Registration
Land Area 7087 sqm approx

Phase - 2 Commercial
Complex cum Hotel
(Future Development)
Land Area 3421 sqm approx

Limited Common Area for
Fire tender movement
in case of Fire Emergencies

Limited Common Area
or Fire tender movement in case of
Fire Emergencies



KEY PLAN

Phase - 2 Commercial
Complex cum Hotel
(Future Development)
Land Area 3421 sqm
approx.

AREA STATEMENT AS PER LUCKNOW DEVELOPMENT AUTHORITY 2016				
S.No.	POST AREA	DESCRIPTION	AREA (SQM)	SGMA
1	PERMISSIBLE GROUND COVERABLE AREA	(LAMA) (MCL)	4300.00	50.00
2	PROPOSED COMMON AREA	(COMMERCIAL) (B.14)	2061.379	50.00
3	PROPOSED COMMON AREA	(RESIDENTIAL) (L4.10)	1333.333	50.00
4	TOTAL PROPOSED COMMON AREA		3394.712	50.00
5	PERMISSIBLE FAR @ 2.5		26270.000	50.00
6	ALREADY PURCHASED FAR AREA (B.17)		1333.000	50.00
7	TOTAL PERMISSIBLE FAR AREA WITH PURCHASED FAR (B.17)		27603.000	50.00
8	BALANCE PURCHASEABLE FAR AREA (B.17)		1333.000	50.00
9	TOTAL PERMISSIBLE FAR AREA WITH PAID FAR (B.17)		28936.000	50.00
10	ADDITIONAL PERMISSIBLE FAR (5% OF PERMISSIBLE FAR) (A)		1333.500	50.00
11	TOTAL PERMISSIBLE FAR		30269.500	50.00
12	ADDITIONAL FAR ADDED IN MAIN FAR (C) (I) (B.1)		2395.359	50.00
13	TOTAL PROPOSED FAR		32664.859	50.00
14	COVERED AREA UNDER BASEMENT - 1 (TOWER - 01) (COMMERCIAL)		3369.832	50.00
15	COVERED AREA UNDER BASEMENT - 1 (TOWER - 02) (RESIDENTIAL)		4342.899	50.00
16	COVERED AREA UNDER BASEMENT - 1 (TOWER - 02) (RESIDENTIAL)		5280.772	50.00
17	COVERED AREA UNDER BASEMENT - 1 (TOWER - 02) (RESIDENTIAL)		5979.291	50.00
18	TOTAL COVERED AREA UNDER BASEMENT - 1		19572.800	50.00
19	COVERED AREA UNDER BASEMENT - 1 (TOWER - 01) (COMMERCIAL)		13568.439	50.00
20	COVERED AREA UNDER BASEMENT - 1 (TOWER - 02) (RESIDENTIAL)		6362.911	50.00
21	COVERED AREA UNDER BASEMENT - 1 (TOWER - 02) (RESIDENTIAL)		7497.960	50.00
22	COVERED AREA UNDER BASEMENT - 1 (TOWER - 02) (RESIDENTIAL)		8300.800	50.00
23	TOTAL COVERED AREA UNDER BASEMENT - 1		21662.811	50.00
24	PROPOSED NO. OF SUV		134	NOV
25	E.C.S. REQUIRED			
26	Per. E.C.S. FOR RESIDENTIAL @ 1.5 E.C.S./SQM		204.000	E.C.S.
27	Per. E.C.S. FOR COMMERCIAL @ 1.5 E.C.S./SQM		20.000	E.C.S.
28	Per. E.C.S. FOR COMMERCIAL @ 1.5 E.C.S./SQM		133.217	E.C.S.
29	TOTAL E.C.S. REQUIRED		357.217	E.C.S.
30	PROPOSED E.C.S.			
31	E.C.S. PROVIDED IN BASEMENT - 1 (STACK PARKING)		150.665	E.C.S.
32	E.C.S. PROVIDED IN BASEMENT - 1 (RESIDENTIAL TOWER-01)		118.078	E.C.S.
33	E.C.S. PROVIDED IN BASEMENT - 1 (RESIDENTIAL TOWER-02)		174.376	E.C.S.
34	E.C.S. PROVIDED IN BASEMENT - 1 (RESIDENTIAL TOWER-02)		174.376	E.C.S.
35	E.C.S. PROVIDED ON SURFACE PARKING (VISITOR PARKING)		30.441	E.C.S.
36	TOTAL E.C.S. PROVIDED		448.927	E.C.S.
37	PROPOSED CAR SPACE			
38	CAR SPACE IN BASEMENT - 1 (COMMERCIAL TOWER-01)		137	NOVS
39	CAR SPACE IN BASEMENT - 1 (RESIDENTIAL TOWER-01)		301	NOVS
40	CAR SPACE IN BASEMENT - 1 (RESIDENTIAL TOWER-02)		155	NOVS
41	CAR SPACE IN BASEMENT - 1 (RESIDENTIAL TOWER-02)		155	NOVS
42	CAR SPACE IN SURFACE (VISITOR PARKING)		31	NOVS
43	TOTAL CAR SPACE PROVIDED		544	NOVS

CLIENT :-
M/S PURVANCHAL PROJECTS PVT LTD.

PROJECT :-
PROPOSED COMMERCIAL/ RESIDENTIAL
"PURVANCHAL ROYAL ATLANTIS"
AT PLOT NO-F-7, C.G. CITY, CHAK GAJAJARIA,
SULTANPUR ROAD, LUCKNOW, U.P.

TITLE :-
ELECTRICAL LAYOUT

OWNER'S SIGN: For PURVANCHAL PROJECTS PVT LTD. (Shri. Ak. Singh, Director)

ARCHITECT SIGN: A. PATIL (Shri. A. Patil, 205-C, Masjid Moh, New Delhi - 110049)

Building Plan Application Number: _____

Sanctioned On: _____

Valid Till: _____

Approved By: _____

Examined By: _____

ARCHITECT :-
DEVELOPMENTS CONSULTANT
(Architects, Engineers, Urban Designers)
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New Delhi - 110 049
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