

LOAD CALCULATION SHEET

NAME- HoABL Vrindavan Plotting Scheme R5
ADDRESS- Vrindavan

PART(A)- RESIDENTIAL

Sr. No.	Type	Area of plot (Sq.Mt.)	NO OF PLOTS	Total area (SQ. MT.)	FAR	AREA AFTER CONSIDERING FAR	TOTAL LOAD OF VILLAS= (109873.2*5) = 5493.66 KW	
1	Plotted Area (Type A)	116.2	209	24285.8	1	24285.8	AFTER CONSIDERING DIVERSITY FACTOR i.e. 50% = 5854.7*50% = 2746.8 KW	
2	Plotted Area (Type B)	139.4	239	33316.6	1	33316.6		
3	Plotted Area (Type C)	162.6	203	33007.8	1	33007.8		
4	Plotted Area (Type D)	212.5	68	14450	1	14450		
5	Group Housing	4813	1	4813	1	4813		
TOTAL AREA in SQ.MT							109873.2	TOTAL RESIDENTIAL LOAD= 2746.8 KW

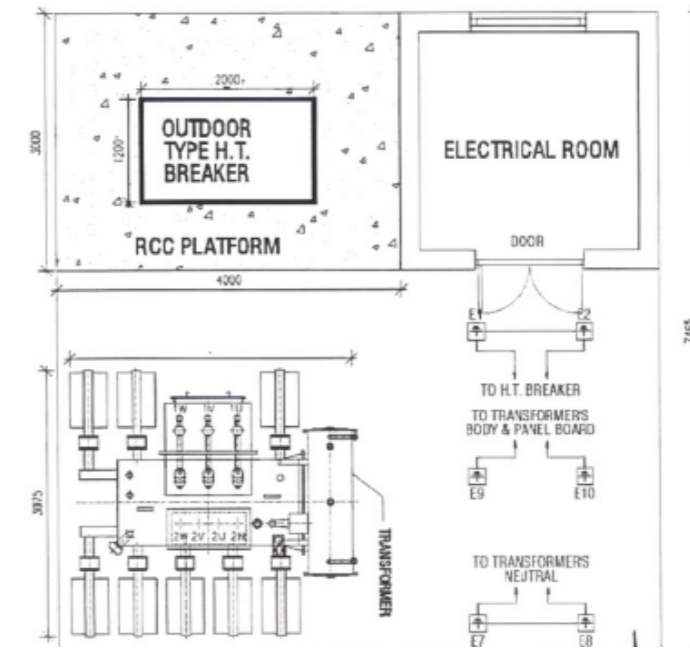
Sr. No.	UTILITY	COUNT	LOAD	TOTAL LOAD (IN KW)	TOTAL LOAD OF TOWERS= 385 KW AFTER CONSIDERING DIVERSITY FACTOR i.e. 50% = 385*50% = 192.5 KW
1	COMMON AREA LOAD	1	35	35	
2	FIRE FIGHTING PUMPS	1	***	***	
3	WATER SUPPLY PUMPS	1	***	350	
TOTAL COMMON SERVICES LOAD				385	TOTAL COMMON SERVICES LOAD= 192.5 KW
TOTAL LOAD TO BE SANCTIONED= PART (A)+ PART(B) = (2746.8+192.5) KW = 2939.3 KW					

6.2.6 11 KV / 433 V Transformers

- The Entire Load of the Plotting Area has been divided into Nine Locations with area for 9/10 Nos 11 KV / 433 V Electrical Transformers, considering average 110 Plots on 1 Nos. 500 kVA Transformer. (Location of Transformer/ Substation will be given at the Desing Layout)
- 1 No. Dedicated Transformer for EWS & LIG Area. Capacity of the Transformer will be arrived as per the building layout.
- 1 No. Dedicated Transformer for Common Amenities, Capacity of the Transformer will be arrived as per the building layout.

Conventional Substation

- Substation would comprise of 11 KV vacuum circuit breaker panel, 11 KV / 433 V oil filled outdoor type transformers, bus duct/cable connection between 11 KV panel and transformer and LT Panel with the required number of outgoing feeders.
- HT and LT Panels will be housed in separate indoor/outdoor rooms whereas Transformer will be kept outdoors.



ELECTRICAL

1	-----	ELECTRICAL HT HUME PIPE
2	-----	ELECTRICAL LT DWG PIPE
3	-----	LV DWG PIPE
4	□	ELECTRICAL CHAMBER

02/08/2025



DRAWING TITLE:

ELECTRICITY PLAN

PROJECT:

VILLAGE JULHENDI, VRINDAVAN

THE HOUSE OF ABHINANDAN LODHA

SCALE

CHECKED BY

DATE

02/08/2025