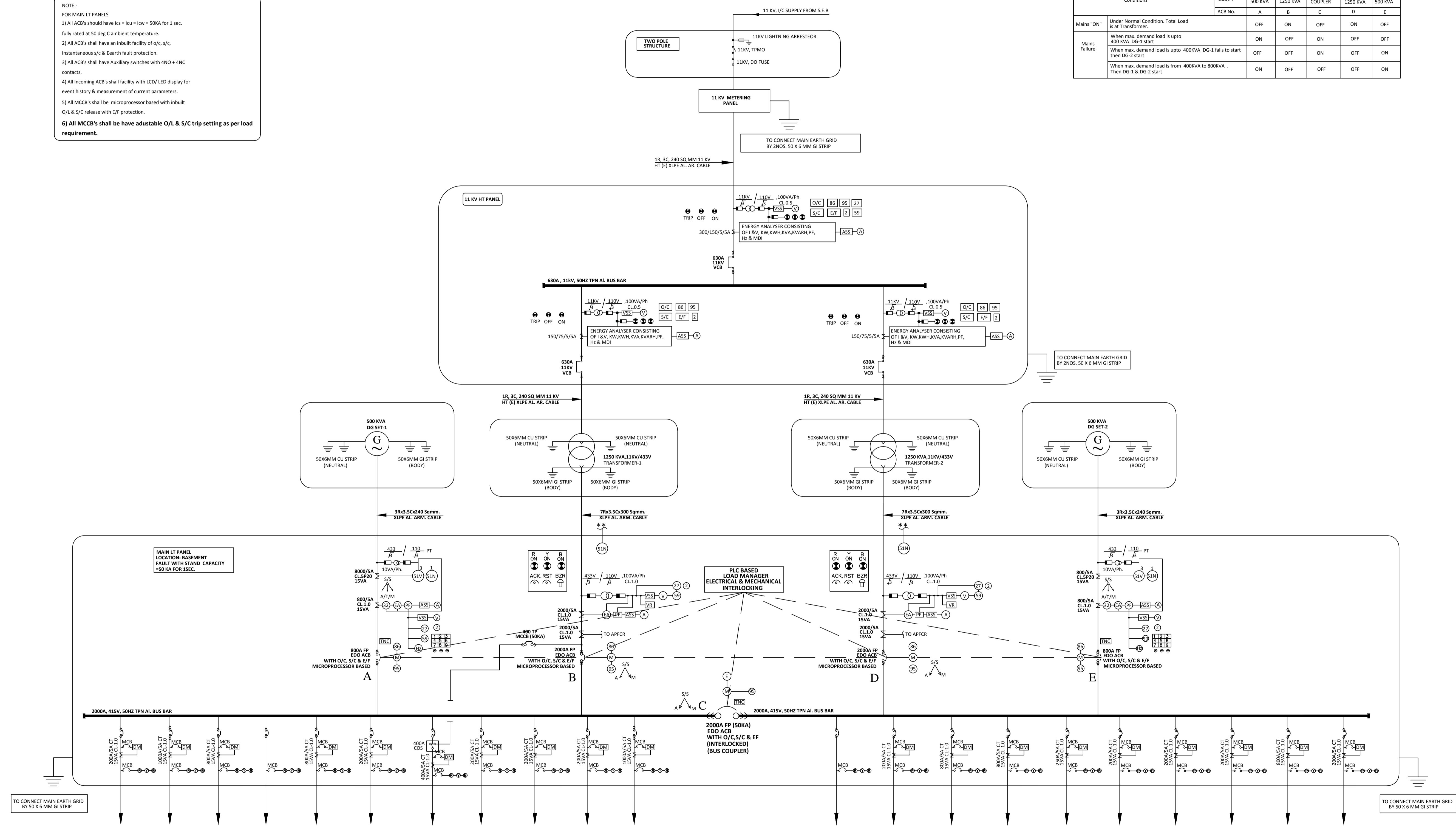


NOTE:-  
 FOR MAIN LT PANELS  
 1) All ACB's should have Ics = Icu = Icw = 50KA for 1 sec. fully rated at 50 deg C ambient temperature.  
 2) All ACB's shall have an inbuilt facility of o/c, s/c, instantaneous s/c & Earth fault protection.  
 3) All ACB's shall have Auxiliary switches with 4NO + 4NC contacts.  
 4) All Incoming ACB's shall facility with LCD/LED display for event history & measurement of current parameters.  
 5) All MCCB's shall be microprocessor based with inbuilt O/L & S/C release with E/F protection.  
 6) All MCCB's shall be have adjustable O/L & S/C trip setting as per load requirement.

Interlocking scheme For PLC Load Manager.

Conditions	Breaker Position					
	EQUIP. ACB No.	D.G.-1 500 KVA	T/F-1 1250 KVA	BUS COUPLER	T/F-2 1250 KVA	D.G.-2 500 KVA
Mains "ON"		OFF	ON	OFF	ON	OFF
Mains Failure	When max. demand load is upto 400KVA DG-1 start	ON	OFF	ON	OFF	OFF
	When max. demand load is upto 400KVA DG-1 fails to start then DG-2 start	OFF	OFF	ON	OFF	ON
	When max. demand load is from 400KVA to 800KVA. Then DG-1 & DG-2 start	ON	OFF	OFF	OFF	ON



FEEDER NUMBER	F-1	F-1	F-1	F-2	F-3	F-5	F-6	F-7	F-8	F-8
CIRCUIT BREAKER RATING IN AMPS	200 A TP MCCB (35 KA)	1000 A TP MCCB (35 KA)	800 A TP MCCB (35 KA)	630 A TP MCCB (35 KA)	800 A TP MCCB (35 KA)	160 A TP MCCB (35 KA)	400 A TP MCCB (35 KA)	160A TP MCCB (35 KA)	250 A TP MCCB (35 KA)	1000 A TP MCCB (50 KA)
CABLE SIZE IN S.Q. MM (AL)	-----	3 x 3.5 C x 240	2 x 3.5 C x 240	2x3.5Cx240	2 x 3.5 C x 300	1 x 3.5 C x 70	2 x 3.5 C x 185	1 x 3.5 C x 70	1 x 3.5 C x 70	-----
FEEDER DESCRIPTION	SPARE	RISING MAIN-1 BLOCK-A (528KW)	RISING MAIN-2 BLOCK-B (360KW)	APFC PANEL-1 (270KVAR)	RISING MAIN-3 BLOCK-C (440KW)	COMMON PANEL BLOCK-A	FIRE FIGHTING PANEL (200KW)	COMMON PANEL BLOCK-B	COMMON PANEL BLOCK-C	BASEMENT VENTILATION-1

F-9	F-8	F-9	F-10	F-11	F-12	F-12	F-12	F-12	F-12
630 A TP MCCB (35 KA)	200A TP MCCB (35 KA)	800 A TP MCCB (35 KA)	800 A TP MCCB (35 KA)	250 A TP MCCB (35 KA)	160 A TP MCCB (35 KA)	200 A TP MCCB (35 KA)	800 A TP MCCB (35 KA)	800 A TP MCCB (35 KA)	200 A TP MCCB (35 KA)
2x3.5Cx240	1 x 3.5 C x 50	2 x 3.5 C x 300	2 x 3.5 C x 240	-----	1 x 3.5 C x 70	1x 3.5 C x 95	3 x 3.5 C x 240	-----	-----
APFC PANEL-2 (270KVAR)	STP PANEL (50KW)	RISING MAIN-4 BLOCK-D (440KW)	RISING MAIN-5 TOWER-E (350KW)	BASEMENT VENTILATION-2	COMMON PANEL BLOCK-F	PLUMBING PANEL (50KW)	RISING MAIN-6 TOWER-F (400KW)	SPARE	SPARE

LEGENDS

SYMBOLS	DESCRIPTION
[Symbol]	VCB (VACUUM CIRCUIT BREAKER)
[Symbol]	ACB (AIR CIRCUIT BREAKER)
[Symbol]	MCCB (MOULDED CASE CIRCUIT BREAKER)
[Symbol]	MINIATURE CIRCUIT BREAKER
[Symbol]	POTENTIAL TRANSFORMER
[Symbol]	CURRENT TRANSFORMER
[Symbol]	AMMETER
[Symbol]	VOLT METER
[Symbol]	AMMETER SELECTOR SWITCH
[Symbol]	VOLT METER SELECTOR SWITCH
[Symbol]	ENERGY ANALYSER WITH MDI
[Symbol]	POWER FACTOR METER
[Symbol]	FREQUENCY METER
[Symbol]	DUAL REGISTER ENERGY METER
[Symbol]	ISOLATOR
[Symbol]	PUSH BUTTON
[Symbol]	SELECTOR SWITCH
[Symbol]	TRIP (NORMAL/CLOSE SWITCH WITH LOST MOTION DEVICE)
[Symbol]	ANNUNCIATION WINDOW
[Symbol]	IDMT EARTH FAULT RELAY
[Symbol]	VOLTAGE RESTRAINED OVER CURRENT RELAY
[Symbol]	MASTER TRIP RELAY
[Symbol]	TRIP CIRCUIT SUPERVISION RELAY
[Symbol]	INST. O/C RELAY
[Symbol]	IDMT RELAY
[Symbol]	OVER VOLTAGE RELAY WITH TIMER
[Symbol]	UNDER VOLTAGE RELAY
[Symbol]	REVERSE POWER RELAY
[Symbol]	DIFFERENTIAL RELAY
[Symbol]	HRC FUSES
[Symbol]	CHANGE OVER SWITCH
[Symbol]	OVER CURRENT RELAY
[Symbol]	SHORT CIRCUIT RELAY
[Symbol]	EARTH FAULT RELAY
[Symbol]	INDICATOR
[Symbol]	DG
[Symbol]	TRANSFORMER
[Symbol]	SELECTOR SWITCH
[Symbol]	ELECTRICAL INTERLOCK
[Symbol]	MECHANICAL INTERLOCK
[Symbol]	PHASE INDICATOR

Project: GROUP HOUSING FOR MANORATH M/S MANJOT SOHO HOMES PVT. LTD. PLOT NO. GH-04B(1), SECTOR-16, GREATER NOIDA. (U.P.)

title: ELECTRICAL DRAWING

Sub title: MAIN SCHEMATIC DIAGRAM

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