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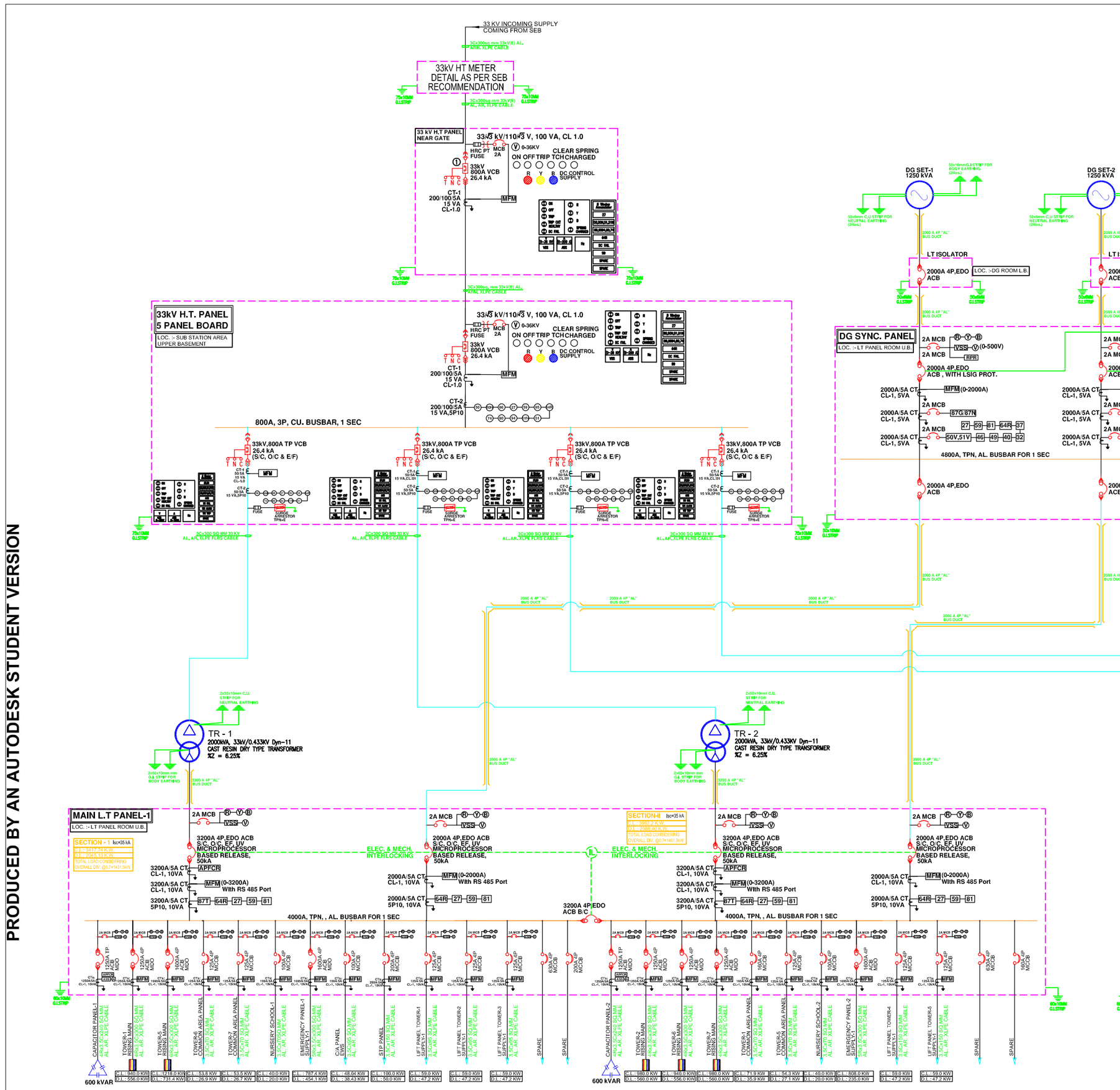

INTERLOCKING SCHEME FOR EMERGENCY PANEL:

DESCRIPTION	SUPPLY-1	B/C	SUPPLY-2
IN NORMAL OPERATION	ON	OFF	ON
WHEN SUPPLY-1 FAILS	OFF	ON	ON
WHEN SUPPLY-2 FAILS	ON	ON	OFF

INTERLOCKING SCHEME FOR MAIN L.T PANEL-1

DESCRIPTION	TRANS.-1	DG-I/C-1	B/C	TRANS.-2	DG-I/C-2
WHEN GRID SUPPLY ON	ON	OFF	OFF	ON	OFF
WHEN GRID SUPPLY OFF	OFF	ON	OFF	OFF	ON
LOAD 50% ON DG	OFF	ON	ON	OFF	OFF

INTERLOCKING SCHEME FOR MAIN L.T PANEL-2

DESCRIPTION	TRANS.-3	DG-I/C-3	B/C	TRANS.-4	DG-I/C-4
WHEN GRID SUPPLY ON	ON	OFF	OFF	ON	OFF
WHEN GRID SUPPLY OFF	OFF	ON	OFF	OFF	ON
LOAD 50% ON DG	OFF	ON	ON	OFF	OFF

NOTES:

1. CABLE SIZES ARE TENTATIVE IT MAY BE CHANGE AFTER THE PREPARATION OF VOLTAGE DROP.
2. COMMON AREAS LOADS ARE TAKEN ON TENTATIVE BASIS IT MAY BE CHANGE AFTER RECEIVING THE ACTUAL LOAD.
3. IN NORMAL CONDITION FOR EMERGENCY PANEL BOTH THE FEEDERS SHALL OPERATE, IF ONE FEEDER IS ON MAINTAINENCE OTHER FEEDER WILLTAKE THE LOAD OF OTHER BUS, HENCE THE INCOMER BREAKER IS DESIGNED ON FULL LOAD.

LEGEND

	AIR CIRCUIT BREAKER
	MOTOR PROTECTION CIRCUIT BREAKER MINIATURE CIRCUIT BREAKER TPN MOULDED CASE CIRCUIT BREAKER
	VACUUM CIRCUIT BREAKER
	CURRENT TRANSFORMER
	DRAWOUT POTENTIAL TRANSFORMER
	3PH. POWER TRANSFORMER
	INDICATION LAMP (OFF/TRIP/SPRING/TCH)
A	AMMETER
V	VOLTMETER
ASS	AMMETER SELECTOR SWITCH
VSS	VOLTMETER SELECTOR SWITCH
	GROUNDING
	3 PH DG SET
DLM RS485	DIGITAL LOAD MANAGER WITH RS485 PORT
24	VOLTS PER HERTZ RELAY
27	UNDER VOLTAGE RELAY
30	AUX. RELAY
32	DIRECTIONAL POWER RELAY
37	UNDER POWER MONITOR/ALARM RELAY
40	LOSS OF EXCITATION
46	CURRENT UNBALANCE RELAY/TRIP RELAY
56V/51V	VOLTAGE RESTRAINED OVER CURRENT RELAY
50	INSTANTANEOUS OVER CURRENT RELAY
50N	EARTH FAULT RALAY
51N	LONG TIME EARTH FAULT RELAY
51	LONG TIME OVER CURRENT RELAY
52BF	AC BREAKER FAILURE PROTECTION RELAY
59	OVER VOLTAGE RELAY
64R	RESTRICTED EARTH FAULT RELAY
81	FREQUENCY RELAY
86	LOCK-OUT RELAY
87G/87N	GENERATOR DIFFERENTIAL RELAY
87T	DIFF. RELAY FOR TRAFO.
95	TRIP CIRCUIT SUPERVISION RELAY
RPR	REVERSE POWER RELAY
TVM	TRIVECTOR METER
VCB	VACUUM CIRCUIT BREAKER
	SERIES REACTOR
	CONTACTOR
	AUTO TRANSFER SWITCH
EM	ENERGY METER
	CONTACTOR

DWG. PURPOSE
FOR APPROVAL

REV.	MODIFICATION	DATE	DRAWN	CHKD
R1	AS PER COMMENTS	24-09-2019	NAVEEN	S.G.

PROJECT:
GODREJ HOUSING
SECTOR 106, GURGAON

CLIENT:
GODREJ PROPERTIES LIMITED

ARCHITECTS
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DRAWING TITLE :
33kv ELECTRICAL MAIN PANEL SINGLE LINE DIAGRAM

SCALE :	DATE :	DRAWING NO.:
NTS	24.09.2019	PC-GD-106-EL-33KV-SLD-700-R1
DRAWN BY :	APPROVED BY :	REV. NO.:
NAVEEN	N.K.	R1

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