

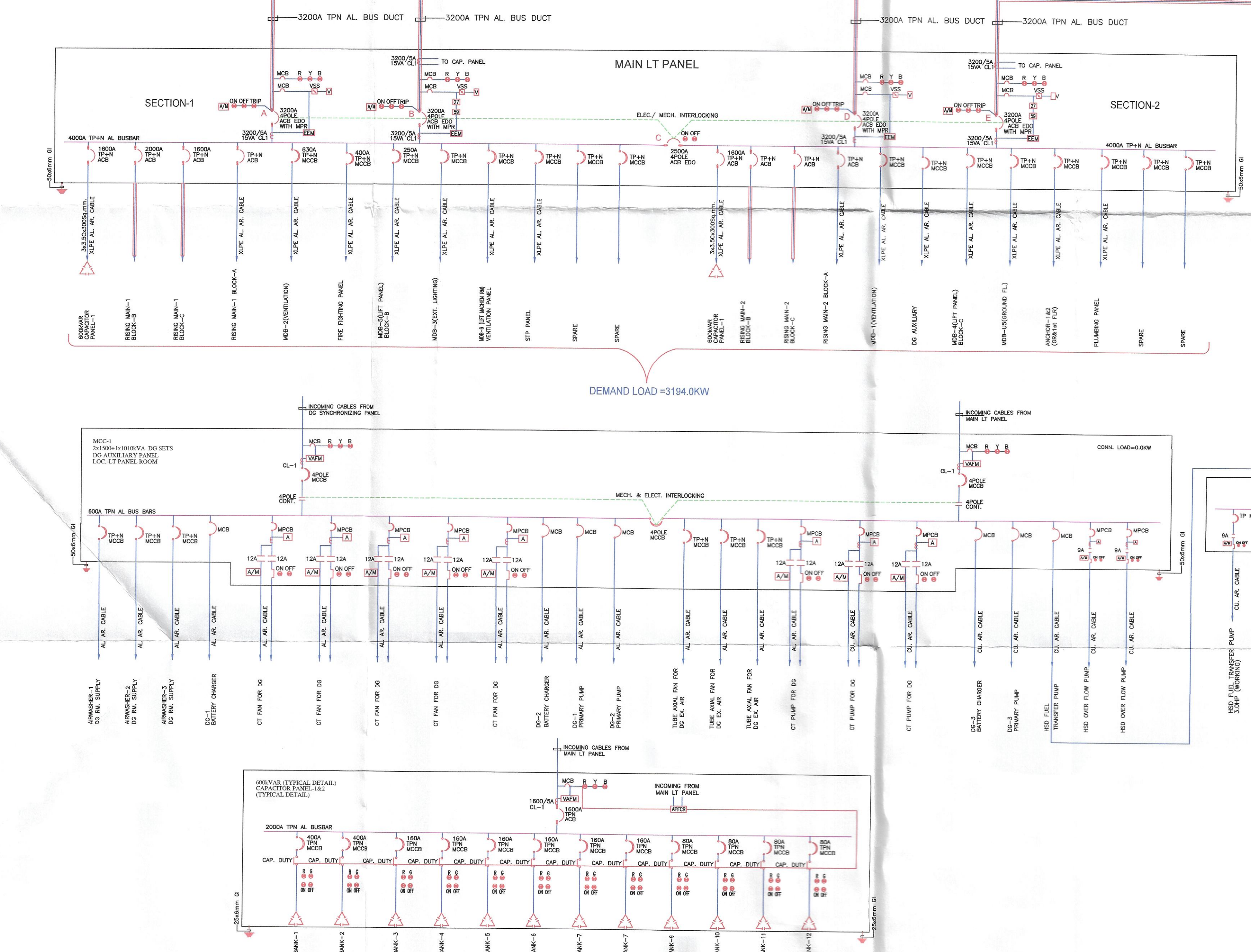
The drawing checked and approved subject to the conditions laid out in CEI Letter No. D-1241/Chk.2 dated 22/04/2019

Chief Electrical Inspector,
to Govt. Haryana, Chandigarh

LEGEND:-		
SNO.	SYM.	DESCRIPTION
01.	A	AMMETER
02.	V	VOLT METER
03.	Pf	POWER FACTOR METER
04.	HZ	FREQUENCY METER
05.	KWH	KILOWATT HOUR METER
06.	KW	KILOWATT METER
07.	DEM	DUAL ELECTRONIC ENERGY METER
08.	FR	FIRE RETARDANT CABLE
09.	ASS	AMMETER SELECTOR SWITCH
10.	VSS	VOLTMETER SELECTOR SWITCH
11.	(50.51)RYB 51.50N	OVER CURRENT & EARTH FAULT RELAY
12.	50V.51V.46.49.40 32.37.27.59.81	MULTI FUCTION RELAY
13.	86	LOCKOUT RELAY
14.	74	SUPERVISORY TRIP RELAY
15.	27	UNDER VOLTAGE DEVICE
16.	59	OVER VOLTAGE DEVICE
17.	46	CURRENT UNBALANCE
18.	87G/N	DIFFERENTIAL PROTECTION RELAY
19.	APFCR	AUTOMATIC POWER FACTOR CORRECTION RELAY
20.	*	NOT TO BE INCLUDED IN DEMAND LOAD
21.	CF	CONTROL FUSE
22.	CT	CURRENT TRANSFORMER
23.	TVM	TRIVECTOR METER
24.	IL	INDICATING LAMP
25.	OL	OVER LOAD RELAY
26.	PC	POWER CONTACTOR
27.	PT	POTENTIAL TRANSFORMER
28.	ACB	AIR CIRCUIT BREAKER (ACB)
29.	VCB	VACUUM CIRCUIT BREAKER (VCB)
30.	GRD	GROUNDING
31.	MPR	MICRO PROCESSOR BASED RELEASE
32.	EEM	ELECTRONIC ENERGY METER
33.	MCCB	MOULDED CASE CIRCUIT BREAKER (MCCB)
34.	MCB	MINIATURE CIRCUIT BREAKER (MCB)

DG & TRANSFORMERS INTERLOCKING SCHEME

	A	B	C	D	E
MAIN SUPPLY ON	OFF	ON	OFF	OFF	ON
DG SUPPLY ON	ON	OFF	OFF	OFF	OFF
TRANSFORMER-1 ON	OFF	ON	ON	ON	OFF
TRANSFORMER-2 ON	OFF	OFF	ON	OFF	ON



- Note:
- Substation is Indoor Type Located at 1st Basement Level
 - HT Metering Room and Isolator VCB Room is located near Main gate
 - 33 KV underground cable 3CX 300 Summ xlpe is proposed between Metering Room and Sub station of app. length 230 RM
 - Sub station to have 33KV 3 VCB panel 1No. incoming and 2Nos. outgoing for transformers
 - Transformers 2 Nos. are 2000KVA 33/0.433kV rated with app.6.25% impedance
 - Bus duct is proposed between Transformer and LT Panel
 - Main LT panel is located in the first basement direct approach from ramp
 - 3 Nos. DG sets are housed along with its panel in DG Room located in 2nd basement of 9, there is no building above DG Room and the room is mechanically ventilated
 - All floor have separate electrical rooms for floor level power distribution
 - List of Earthing pits :-
 - For Metering and VCB near entrance -2Nos. 50x6mm GI Earth Strip
 - For HT Panel -2Nos. (GI Plate Earthing With 50x6mm GI Earth Strip)
 - For Transformer body -4Nos. (GI Plate Earthing With 50x6mm GI Earth Strip)
 - For Transformer Neutral -4Nos. (Copper Plate Earthing With 50x6mm Copper Earth Strip)
 - For DG body -4Nos. (GI Plate Earthing With 40x6mm GI Earth Strip)
 - For DG Neutral -6Nos. (Copper Plate Earthing With 50x6mm Copper Earth Strip)
 - For LT Panel -2Nos. (GI Plate Earthing With 50x6mm GI Earth Strip)

For Ansal Properties & Infrastructure Ltd.

Authorised Signatory

ELECTRICAL SUBMISSION DRAWING

R1	REVISED MAIN SINGLE LINE DIAGRAM	14.09.16	
00			
REV. NO	DESCRIPTION	DEALT	DATE

ARCHITECT:

DESIGN FORUM INTERNATIONAL
ARCHITECTURE & INTERIOR DESIGN TOWN PLANNING

CLIENT: JMD & SANDWOOD GROUP

PROJECT: SUBURBIO-67, GURGAON (HARYANA)

DRAWING TITLE: ELECTRICAL MAIN SINGLE LINE DIAGRAM

MEP SERVICES CONSULTANT: ACROBAT ENGINEERS PVT.LTD.

AEA H.No. A1750 Basement Level Gate-05 Green Field Colony Near NHPC Metro Faridabad (Haryana) Tel. : 0129-2511312/13 customer.service@acrobotengineers.com

STATUS:- FOR APPROVAL

SCALE: NTS

DATE: 16.04.2019

DESIGNED BY: - S.P.

DRAWN BY: - P.K.

CHECKED BY: - S.P.

APPROVED BY: - N.K.

DRG. NO: AEA/S.LD-1001

CONTRACT NO.

SHY. NO.: NO OF SHY. REVISION NO

R-0

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