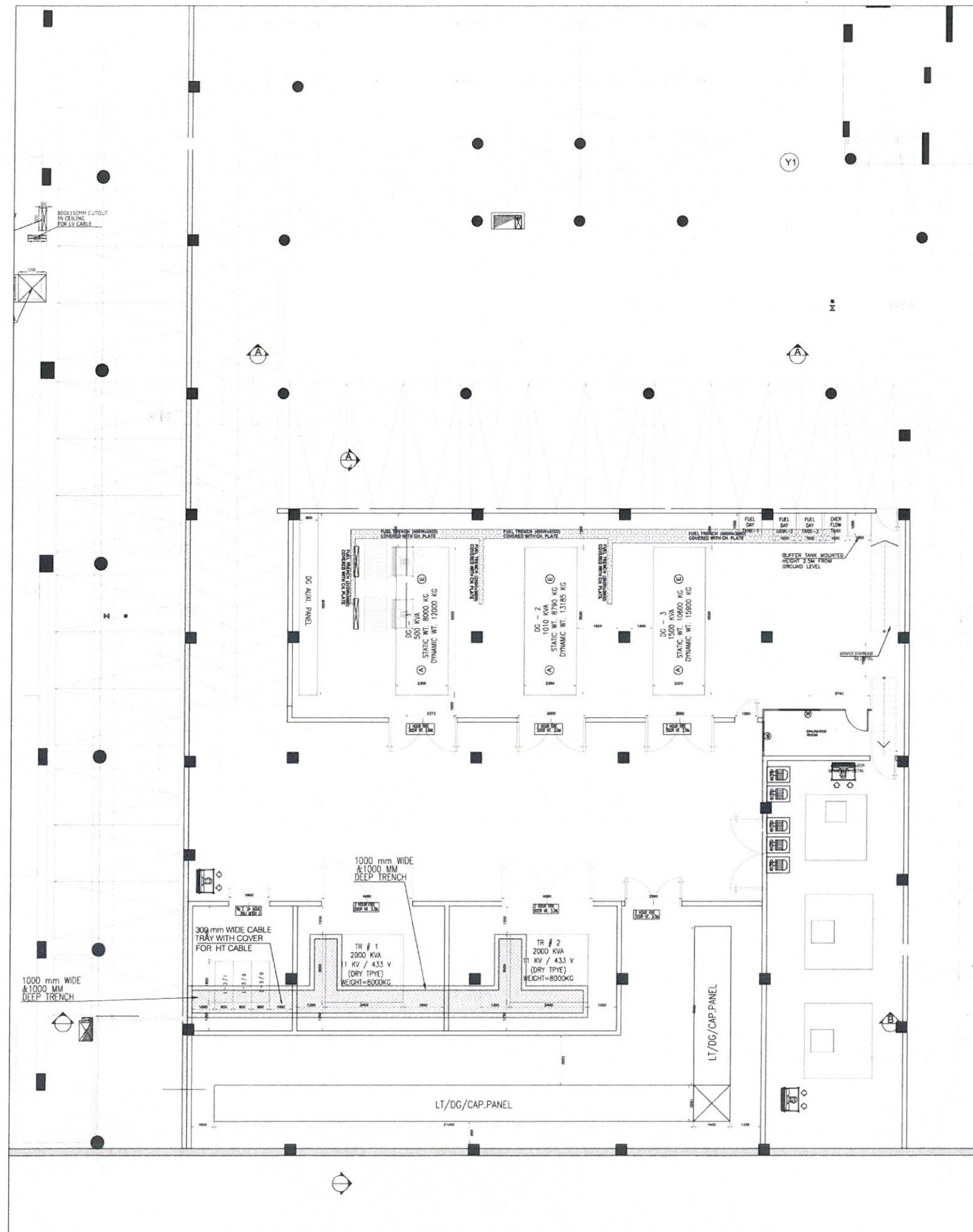




**DG ROOM &
SUBSTATION LAYOUT**

NOTES

REVISIONS

NOS	DESCRIPTION	DATE	REMARK

KEY PLAN

ELECTRICAL CONSULTANT

AMPOWER CONSULTANCY SERVICES

B-202, 2ND FL., NARAYAN RD. AREA, PHASE-1,
NEAR BHAKTAVATSALA, NEW DELHI-110028
PH: 26097722-4114755 TEL: FAX NO 4114755
E-mail: amper@amper.com, amper@amperconsultancy.com

M/E CONSULTANT

GSP DESIGN CONSULTANT

M.E.P. BUILDING SERVICES
302 Block 406, Third Floor, Janki Park
Near Mira Market Scheme / Saranagar Ghum Mandir, New Delhi-110028
E-mail: gspdesign@gmail.com

PLUMBING & FIRE SUPPRESSION CONSULTANT

C P VIDYA AND ASSOCIATES

315A, UNITECH ACADEMY, SOUTH CITY - II,
SECTOR - 49, NEAR PARK HOSPITAL, (GURGAON)
HARYANA - 122018 (INDIA)
E-mail: cpvidyaassociates@gmail.com

STRUCTURAL CONSULTANT

PRISTINE IDEAS

40201, LOWER GROUND FLOOR, CH PARK, NEW DELHI-110015
PHONE: 011-4963477
E-mail: pristinideas@gmail.com

LANDSCAPE CONSULTANT

DESIGN ACCORD

301 & 302, U.S. COMPLEX 120, MATHURA ROAD, OPP. APOLLO HOSPITAL,
NEW DELHI - 110016
Telephone: +91 11 26391203
E-mail: muni@designaccord.net

PROJECT

EXPERION - CAPITAL

CLIENT

EXPERION PVT. LTD.

1ST FLOOR, 1ST FLOOR, BLOCK 8, SARANAGAR, LOK,
M.G. ROAD, GURGAON, HARYANA-122002
P.H.O.N.O. : + 91 124-480260, T.E.L.F.A.X. : + 91 124-482260

DSP

DSP DESIGN ASSOCIATES PVT. LTD.

Architects & Interior Designers

8th Floor, Dewchand House, Shiv Sagar,
Extn. Of Anand Enclave Road, Okhla
Nehru Centre, W-105, Mumbai - 400 013
Tel: +91 22 4915 8000
Web: www.dspdesign.co.in

#102A, Tenth Floor,
Times Tower, M.G. Road,
Gurgaon 122002
Tel: +91 124 4221417

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SHEET TITLE

BASE FL - PART PLAN
(SUBSTATION & DG RM LAYOUT)

DRAWING NO.

EXP-LUC-ELECT-BASE-FL-010

DATE

11-06-2018

STATUS

ISSUED

REVISION

1

SCALE

1:100

DRAWN

DINESH

CHECKED

VIVEK JAIN

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BE DONE ONLY AFTER THEIR PRIOR APPROVAL.

The schematic diagram illustrates the receiver section of the transmitter-receiver. It features two main stages: a first IF amplifier stage and a second IF amplifier stage.

- First IF Amplifier Stage:** This stage includes a 11.4 MC IF transformer (TFT) connected to a 10K resistor network. The output of this stage is coupled to a 10K resistor network, which is then connected to a 10K resistor network. The output of this stage is also connected to a 10K resistor network.
- Second IF Amplifier Stage:** This stage includes a 11.4 MC IF transformer (TFT) connected to a 10K resistor network. The output of this stage is coupled to a 10K resistor network, which is then connected to a 10K resistor network. The output of this stage is also connected to a 10K resistor network.

The diagram shows various components such as resistors, capacitors, and transformers, along with their respective values and connections. Key components include a 10K resistor network, a 10K resistor network, and a 10K resistor network. The diagram also shows the connection points for the antenna and ground.

- 1 DG SETS TO BE PROVIDED WITH PCC 3.3 OR EQUIVALENT CONTROLLER FOR AMF/AUTO SYNCHRONISATION.
- 2 ALL TP ACB/MCCB TO BE PROVIDED WITH HEAVY DUTY SOLID NEUTRAL LINK.
- 3 ALL MFM TO BE WITH RS-485 PORT.
- 4 EARTHING TRUCK TO BE PROVIDED FOR HT PANEL.
- 5 REQUIRED PROVISION FOR PROVIDING REQUIRED SIGNAL FOR DG SUPPLY TO DUAL READING KWHR METERS.
- 6 IN ALL THE STARTER FEEDER 1 NO. AMF INDICATION LAMP WITH 2A SP MCB AS BACK UP PROTECTION & START STOP PUSH BUTTON ILLUMINATED TYPE WITH REMOTE CONTROL START, STOP ARRANGEMENT, AUTO/MANUAL OFF SELECTOR SWITCH SHOULD BE PROVIDED.
- 7 10C X 2.5 SQMM COPPER CONTROL CABLE FROM LT/DG PANEL TO DG SET.
- 8 2C X 2.5 SQMM COPPER CONTROL CABLE FROM LT/DG PANEL TO DG SET FOR BATTERY CHARGING.
- 9 IN LT PANEL MICRO PLC FOR AUTO LOAD MGMT. & INTERLOCKING AS PER LOGIC SPECIFIED.
- 10 FOLLOWING COMPONENTS AND SCHEME SHALL BE INCORPORATED FOR AUTO START OF FAN STARTERS THRU FIRE PANEL FOR EACH LIFT WELL PRESS. PANEL.
 - 10.1 INO. CONTROL MCB 6A SP 10KA
 - 10.2 INO. 230V/24V 50VA CONTROL TRANSFORMER.
 - 10.3 INO. 24VAC AUX. CONTACTOR/RELAY WITH 4/6 NOS AUX. CONTACTS.
 - 10.4 LOGIC-AUX. CONTACTOR/RELAY SHALL GET ON 'COMMAND (POTENTIAL FREE CONTACTS)' FROM FIRE PANEL THROUGH 24VAC SUPPLY OF CONTROL TRANSFORMER AND SUBSEQUENTLY AUX. CONTACTOR/RELAY SHALL GIVE 'ON' COMMAND TO ALL (MULTIPLE) STARTERS THROUGH IT'S POTENTIAL FREE CONTACTS.
- 11 SECTION-I & II SHALL BE FED FROM TRANSFORMER#1
- 12 SECTION-III SHALL BE FED FROM TRANSFORMER#2.
- 13 LUBE OIL PRIMING PUMP SHOULD BE ON WHEN IT IS NOT RUNNING AND SHOULD BE OFF WHEN DG IS RUNNING.

S.NO.	DESCRIPTION	SYMBOLS
1	AMMETER	A
2	AMMETER SELECTOR SWITCH	ASS
3	VOLTMETER	V
4	VOLTMETER SELECTOR SWITCH	VSS
5	POWER FACTOR METER	PF
6	FREQUENCY METER	HZ
7	TIME DELAY EARTH FAULT RELAY	SIN
8	CURRENT TRANSFORMER	CT
9	UNDER/OVER VOLTAGE RELAY	27/58
10	POTENTIAL TRANSFORMER	PT
11	TIMER	T
12	TRIP NEUTRAL CLOSE	T N C
13	INDICATING LAMP	
14	DRAWOUT TYPE	
15	MULTI FUNCTION METER (W, KVAR, KW, KVAR, PF, V, A, Hz) (EQUIVALENT TO EM440)	
16	MULTI FUNCTION METER (W, KVAR, PF, V, A, Hz) (EQUIVALENT TO EM442)	
17	MULTI FUNCTION METER (W, V, A) (EQUIVALENT TO EM443)	
18	MULTI FUNCTION METER (PF, HZ, V & A) (EQUIVALENT TO EM445)	
19	MCBB	
20	REVERSE POWER RELAY	
21	AUTOMATIC POWER FACTOR CORRECTION RELAY	
22	ANTI-PUMPING RELAY	
23	MASTER TRIP RELAY	
24	AUXILIARY RELAY	
25	TRIP CIRCUIT HEALTHY	
26	BREAKER OFF GREEN	
27	BREAKER ON RED	
28	BREAKER CONTROL SWITCH	
29	ELECTRICAL DRAW OUT TYPE	EDO
30	AIR CIRCUIT BREAKER	ACB
31	DIGITAL INDICATOR METER WITH MAXIMUM DEMAND INDICATOR	TWM
32	PHASE INDICATING LAMP	R V B
33	SPRING CHARGED, RED	L1
34	DC CONTROL SUPPLY HEALTHY, RED	L2
35	DO START PUSH BUTTON, GREEN	S1
36	DO STOP PUSH BUTTON, RED	S2
37	TRIP/RESET (OVER CURRENT) ILLUMINATED LAMP	T1
38	TRIP/RESET (OVER CURRENT) ILLUMINATED LAMP	T2
39	TRIP/RESET (EARTH FAULT) ILLUMINATED LAMP	T3
40	EMERGENCY STOP PUSH BUTTON	EM
41	DC AMMETER	A
42	DC VOLTMETER	V
43	HOOTER	
44	ANN. TEST PUSH BUTTON	T
45	ANN. ACCEPT PUSH BUTTON	A
46	ANN. RESET PUSH BUTTON	R
47	CHANGE OVER SWITCH	C.O.S
48	NEUTRAL ISOLATION CONTACTOR	NIC
49	ANNUNCIATOR	ANN
50	RESTRICTED EARTH FAULT PROTECTION	
51	DIFFERENTIAL PROTECTION RELAY	
52	INSTANTANEOUS OVER CURRENT RELAY	SO
53	TIME DELAY OVER CURRENT RELAY	S1
54	INSTANTANEOUS E/F RELAY	SON
55	TIME DELAY E/F RELAY	SIN
56	DUAL READING ENERGY METER	
57	DUAL READING ENERGY METER	
58	EARTH LEAKAGE RELAY	
59	CORE BALANCE CURRENT TRANSFORMER	CBCT

MAIN SCHEMATIC DIAGRAM