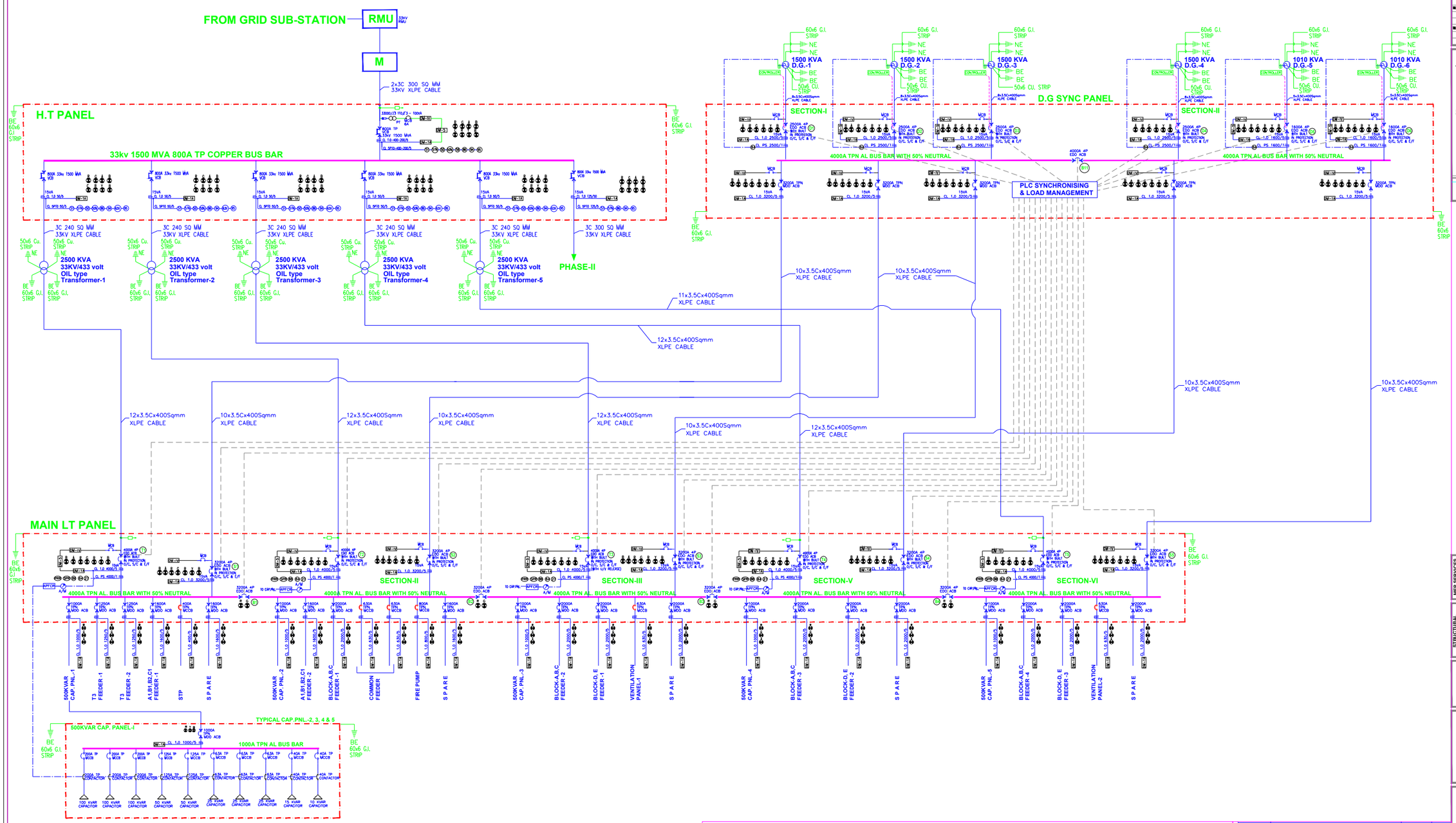
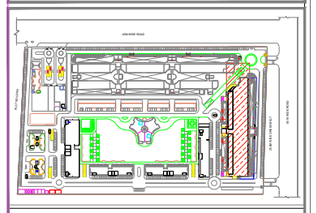


GENERAL NOTES

- ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED.
- ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. DO NOT MEASURE THE DRAWING.
- ALL DRAWINGS ARE TO BE SIMULTANEOUSLY READ ALONG WITH RELEVANT SERVICES & CONSTRUCTION DRAWINGS, WHEREVER APPLICABLE.
- ALL MATERIAL FINISHES ARE TO BE EXPRESSEDLY APPROVED BY THE ARCHITECT &/OR THE RELEVANT CONSULTANTS.



KEY PLAN

ELECTRICAL PANEL INTERLOCKING-SUBSTATION -I

S.No.	DESCRIPTION	TR -1	TR -2	TR -3	TR -4	TR -5	SYN-1	SYN-2	SYN-3	SYN-4	SYN-5	B/C -1	B/C -2	B/C -3	B/C -4	DG -1	DG -2	DG -3	DG -4	DG -5	DG -6	B/C -11
		MLT PANEL														DG PANEL						
		T1	T2	T3	T4	T5	S1	S2	S3	S4	S5	B1	B1	B1	B1	D1	D2	D3	D4	D5	D6	BS3
1	MAINS HEALTY ALL TRANSFORMERS ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	MAINS FAILS - OPTION -1 (3 NOS DG SETS ARE SYNCHRONISED ON EACH SECTION)	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ALL 3 DG SETS START AND SYNCHRONISED			ALL 3 DG SETS START AND SYNCHRONISED			OFF
3	MAINS FAILS - OPTION -2 (ALL DG SETS SYNCHRONISED ON COMMON BUS)	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ALL 6 DG SETS START AND SYNCHRONISED						ON
4	MAINS RESTORE	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

EQUIPMENTS

- Transformer
- Diesel Generating Set
- Automatic Voltage Stabilizer
- Ups With Battery
- Draw Out Circuit Breaker /acb
- Draw Out Circuit Breaker /VCB
- Current Transformer
- Non-Draw Out Circuit Breaker (MCB) Moulded Case Circuit Breaker (MCCB)
- Contactor
- Switch Fuse Unit
- Switch Isolator Unit
- Hrc Fuse
- Potential Circuit Mcb
- Change Over Switch
- A/M Auto/Manual Selector Switch
- Capacitor Bank
- ON ON PUSH BUTTON
- OFF OFF PUSH BUTTON

METERS

DM-1V	Voltmeter
DM-1A	Ammeter
DM-1F	Frequency
DM-2	Single Source Energy Meter
DM-2A	Single Source Energy Meter With BMS Compatibility
DM-2B	Dual Source Energy Meter With BMS Compatibility
DM-3A	Dual Source Energy Meter Tariff Application -Post Paid With BMS
DM-3B	Dual Source Energy Meter Tariff Application -Pre Paid With BMS
DM4	Multimeter-Voltage-Phase,Neutral,Ammeter -Phases,Frequency,Power Factor-Phases
DM-5	Multimeter-Voltage-Phases,Neutral,Ammeter -Phases,Frequency,Power Factor-Phases, Watts-Phases,VA-Phases,VAR-Phases, WH,VAH,VARH

RELAYS

27	Under Voltage Relay
32	Reverse Power Relay
46	Current Unbalance Relay
47	Reverse Phase Voltage
49	Thermal Over Load Relay
50	High Set Instantaneous Over Current Protective Device
50N	Hight Set Instantaneous Earth Fault Protective Device
50V	Voltage Restrained High set Relay
51	Over Current Protective Device
↑51	Directional Over Current Relay
51N	Earth Fault Protective Device
↑51N	Directional Earth Fault Relay
51V	Voltage Restrained O.C. Relay
59	Over Voltage Relay
63x	Auxiliary Relay
81	Under/Over Frequency
86	Master Trip Relay

A	Amber Indicating Lamp for Auto Trip
R	Breaker ON
G	Breaker OFF
R,Y,B	Phase indicating lamp
B	SPRING Charged
C	Clear Indicating Lamp for Trip Circuit Healthy
	DETUNED FILTER
	SURGE PROTECTION DEVICE

87	Differential Protection Relay
94	Anti Pumping Relay
APFCR	Automatic Power Factor Correction Relay
SPR	Single Phase Relay
PRR	Voltage Monitor Relay With Phase Sequence
64	Restricted Earth Fault Relay
95	Supervision Relay

MEP SERVICES CONSULTANT
PARADISE CONSULTANTS
PLOT NO. 96, BASEMENT, POCKET-1, JASOLA VIHAR
NEAR LIVING STYLE MALL, NEW DELHI- 110025, INDIA
PHONE: 011- 29943601, 41030619
E-MAIL : paradiseconsultants@gmail.com
Web : www.paradiseconsultants.com

STRUCTURAL CONSULTANT
CONSULTING STRUCTURAL ENGINEERS
G-70, 2nd FLOOR, JASWANT PLAZA, NEAR KALINDI KUNJ
MAIN SARITA VIHAR ROAD, OKHLA, NEW DELHI-110025
PHONE NO : +91-11-26940734/5/6/7/8 FAX: 26940738
E-Mail : nnc_consultants@hotmail.com
Web : www.nncdesigninternational.com

OWNER
M/S OCEAN INFRAHEIGHTS PVT. LTD.
(FORMERLY M/S U.Y. INDUSTRIES PVT. LTD.)
PLOT NO. -11, SECTOR-TECHZONE - IV,
GREATER NOIDA

PROJECT
GOLDEN I OCEAN INFRAHEIGHTS
PLOT NO. -11,
SECTOR-TECHZONE-IV
AT GREATER NOIDA WEST (U.P.)

ARCHITECT
SIKKA ASSOCIATES ARCHITECTS
URBAN DESIGN | MASTERPLAN | ARCHITECTURE | INTERIORS | ENGINEERING | PROJECT MANAGEMENT
A: A-21, AFRICA AVENUE, SAFDARJUNG ENCLAVE, NEW DELHI, INDIA 110 029
T: +91.11.4323.5235 | F: +91.11.2629.4481 | E: saa@saaindia.net | W: www.saaindia.net

SEAL

ISSUED FOR
- INFORMATION & REVIEW ☐
- SUBMISSION ☐
- CONSTRUCTION DRAWING ☐
- TENDER ☐
- GFC ■
- AS BUILT ☐

REVISIONS

#	DATE	DESCRIPTION

SCALE	N.T.S @ A1
DATE ISSUED	10/06/2021
DRAWN BY	NEGI
CHECKED BY	AR

N

ELECTRICAL SINGLE LINE DIAGRAM COMMERCIAL (PHASE-I)

DWG NO. EL/PC/G-I/SLD/101