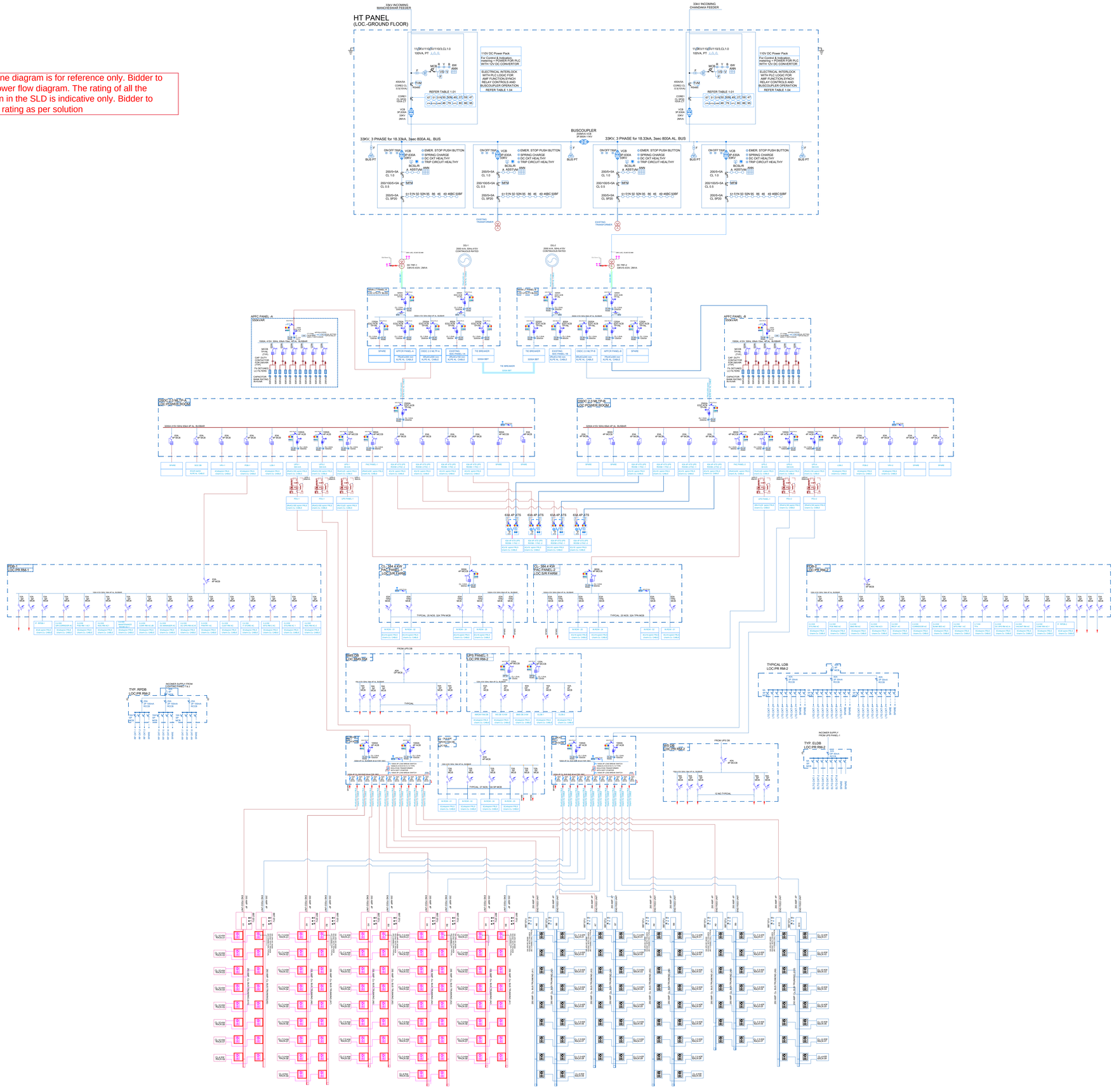
Note: The Single line diagram is for reference only. Bidder to consider this as power flow diagram. The rating of all the components shown in the SLD is indicative only. Bidder to consider their own rating as per solution



General Notes

LEGEND:

SYMBOL	DESCRIPTION
	DIESEL GENERATOR SET
	415V AIR CIRCUIT BREAKER, ELECTRICAL DRAW OUT (EDO) TYPE WITH MICROPROCESSOR BASED O/C, S/C RELEASES, S/T COIL & E/F WILL PROVIDED AS REQUIRED
	415V AIR CIRCUIT BREAKER, MANUAL DRAW OUT (MDO) TYPE WITH MICROPROCESSOR BASED O/C, S/C RELEASES, S/T COIL & E/F WILL PROVIDED AS REQUIRED
	INDICATION LAMP
	ISOLATOR
	SINGLE CORE CURRENT TRANSFORMER (NO. INDICATES RATIO)
	RS-485 WATT HOUR METER WITH RS-485 COMM. PORT & WITH MD SETTING
	HOUR METER
	MECHANICAL INTERLOCK
	TEMPERATURE SCANNER (DIGITAL)
	LOAD MANAGER WITH RS485 COM.PORT (THREE RELAY OUTPUT)
	MULTI DATA METER (LOAD MANAGER WITH RS485 COMM. PORT & THD PARAMETER (THD PERCENTAGE)
	FREQUENCY METER
	DIGITAL AMMETER
	DIGITAL VOLTMETER
L S I G	L : OVER CURRENT WITH TIMER DELAY S : SHORT CIRCUIT CURRENT WITH TIMER DELAY I : INSTANTANEOUS SHORT CIRCUIT G : GROUND FAULT CURRENT WITH TIME DELAY
R Y B	PHASE INDICATING LAMPS
	16W ANNUNCIATION PANEL WITH HOOTER
EOS	ENGINE OVER SPEED SWITCH
HWT	HIGH WATER TEMPERATURE SWITCH
LLOP	LUBE OIL PRESSURE SWITCH
	TRANSIENT VOLTAGE SURGE SUPPRESSER
R Y B	PHASE INDICATING LAMPS
	415V MOULDED CASE CIRCUIT BREAKER,MOTOR OPERATED FIXED TYPE WITH O/C & S/C RELEASE
	415V MOULDED CASE CIRCUIT BREAKER, MANUALLY OPERATED FIXED TYPE WITH O/C & S/C RELEASE
	MINIATURE CIRCUIT BREAKER
27	UNDER VOLTAGE RELAY
27	UNDER VOLTAGE RELAY FOR BATTERY
59	OVER VOLTAGE RELAY
64	RESTRICTED EARTH FAULT RELAY
AUX1	AUXILIARY RELAY FOR HIGH TEMPARATURE ALARM & TRIP
	POTENTIAL FREE CONTACTS FOR BMS
86	MASTER TRIPPING RELAY WITH HAND RESET CONTACTS
DCV	DC VOLTMETER
DCA	DC AMMETER
NC	NEUTRAL CONTACTOR
RTD	BEARING TEMPERATURE DETECTOR
RTD	RESISTANCE TEMPERATURE DETECTOR
DSE CONTROLLER	MULTI FUNCTION GENERATOR RELAY
ES	ENGINE START SWITCH
H	HOOTER
BC	BATTERY CHARGER
	11kV, 3Ø, ELECTRICALLY OPERATED, DRAWOUT TYPE 95kA, 25kA, 3sPs, VCB
	DRY TYPE TRANSFORMER WITH OLTC
	415V AIR CIRCUIT BREAKER, MANUALLY FIXED (MF) TYPE WITH O/C, S/T COIL & E/F WILL PROVIDED AS REQUIRED
	MOTOR PROTECTION CIRCUIT BREAKER
	415V MOULDED CASE CIRCUIT BREAKER, ELECTRICAL DRAW OUT (EDO) TYPE WITH MICROPROCESSOR BASED O/C, S/C, S/T COIL & E/F WILL PROVIDED AS REQUIRED
	415V MOULDED CASE CIRCUIT BREAKER, MANUALLY DRAW OUT (MDO) TYPE WITH MICROPROCESSOR BASED O/C, S/C, S/T COIL & E/F WILL BE PROVIDED AS REQUIRED
	POTENTIAL TRANSFORMER (NO. INDICATES QUANTITY)
	LED TYPE INDICATING LAMPS R - RED - ON INDICATION G - GREEN - OFF INDICATION A - AMBER - AUTO TRIP INDICATION Y - YELLOW - MANUAL TRIP S- SPRING CHARGED
	IDMT NUMARICAL TYPE OVER CURRENT RELAY (NO. INDICATES QTY.)
E/FR	IDMT & EARTH FAULT RELAY (NO. INDICATES QTY.)
50	INSTANTANEOUS OVER CURRENT RELAY
50N	INSTANTANEOUS EARTH FAULT RELAY
86	MASTER TRIPPING RELAY WITH HAND RESET CONTACTS
74 (AUX)	ANTI PUMPING RELAY
74 (AUX)	TRIP CIRCUIT SUPERVISION RELAY
60	FUSE FAILURE RELAY
47	DC SUPPLY FAILURE RELAY
TMAX1	HIGH TEMPERATURE ALARM & TRIP RELAY
59	OVER VOLTAGE RELAY
27	UNDER VOLTAGE RELAY
	TIMER

No.	Revision/Issue	Date
01	ISSUED FOR REVIEW	04-10-2022
00	ISSUED FOR REVIEW	13-09-2022

CLIENT : ORISSA INDUSTRIAL INFRASTRUCTURE DEVELOPEMENT CORPORATION.

Project Name and Address

OCAC BUILDING, PLOT NO.-N-1/7D, ACHARYA VIHAR, RRL POST OFFICE

DC CONSULTANTS:-

Triente Technologies

2nd FLOOR PRADEEP COMPLEX
OPP- MTNL EXCHANGE DABRI
PALAM ROAD NEW DELHI -110046

SUBJECT OF DRAWING:-

SINGLE LINE DIAGRAM

Scale: A1@	Date 04-10-2022	Rev. 00

DWG. NO. SMC/IDCO/BBSR/OCAC/A-001

PREPARED BY-	CHECKED BY-	APPROVED BY
NIRAJ R. KUMAR	R.K.PATRO	SACHIDANAND BHARDWAJ