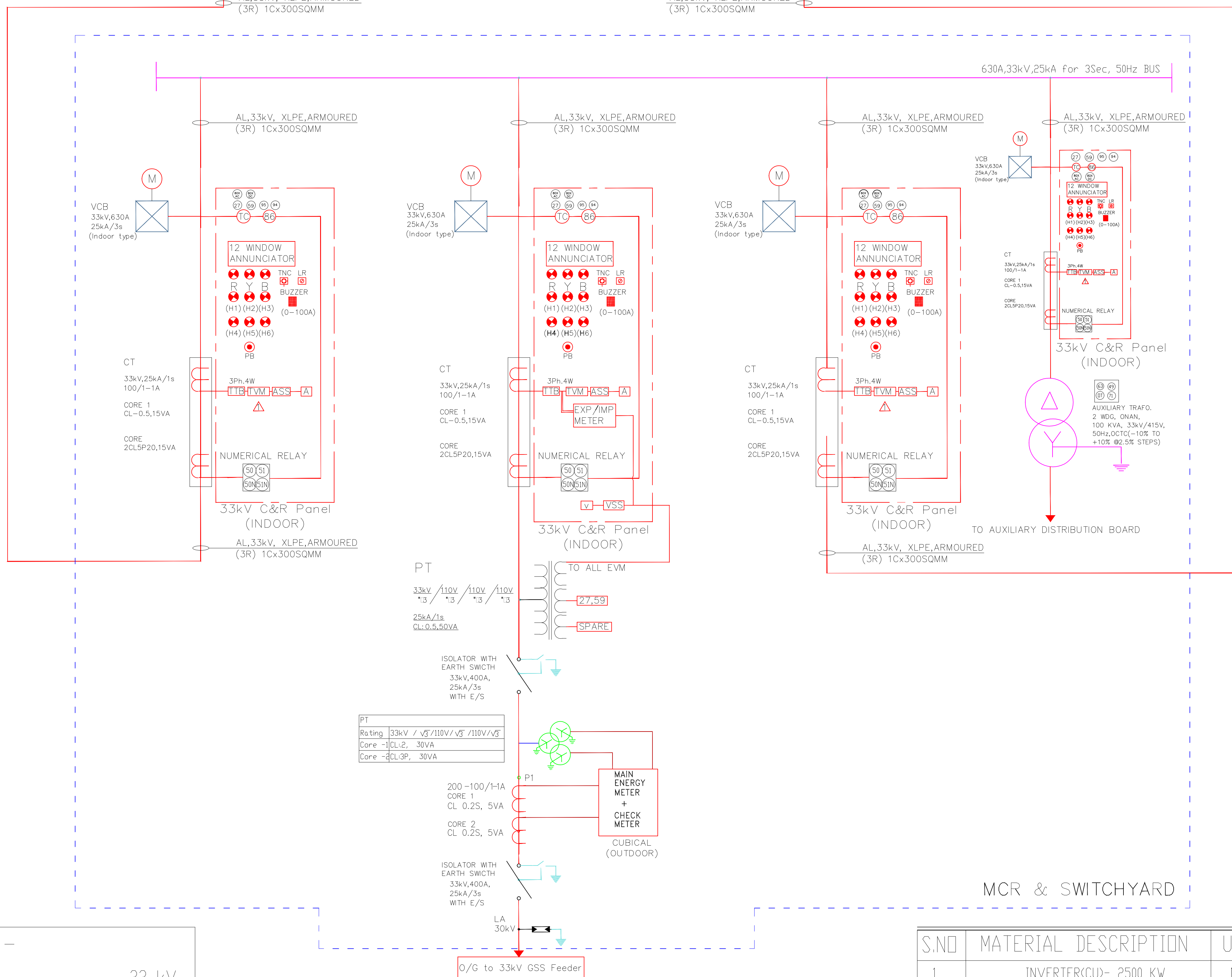




Type No	Function
(27/59)	Three phase Over/Under Voltage Relay
(95)	Trip Circuit Supervision Relay
(49)	Transformer protection(OTI/WTI)
(63)	Transformer protection(Bucchohz)
(26)	Transformer protection(MOLG)
(71)	Transformer protection(PRV)
(80X AC) (80X DC)	AC/DC Supervision Aux. Relay
50/51 RYB	IDMT O/C & EARTH FAULT RELAY
(86)	Master Trip Relay



SYSTEM PARTICULARS -		
1	RATED VOLTAGE	33 kV
2	MAXIMUM VOLTAGE	36 kV
3	FREQUENCY	50 Hz
4	CONTROL VOLTAGE AC SUPPLY	230 V
5	CONTROL VOLTAGE DC SUPPLY	110 V
6	FAULT LEVEL FOR 1 SEC	25 kA

S.NO	MATERIAL DESCRIPTION	UOM	UNITS
1	INVERTER(CU)- 2500 KW	NOS.	4
2	TRANSFORMER - 5000KVA	NOS.	2
3	AUX. TRANSFORMER - 100KVA	NOS.	1
4	33 KV INDOOR CONTROL & RELAY PANEL	NOS.	3
5	DOOR & SWITCHYARD	SET	1

LEGEND :-	
SYMBOL	DESCRIPTION
	3 Winding Transformer
	2 Winding Transformer
	Current Transformer (CT)
	Earth Switch
	Lightning/Surge Arrestor
	Solar PCU/ Inverter
	Draw Out Circuit Breaker
	36kV Manual Isolator without E/S
	Vaccum Circuit Breaker
	Miniature Circuit Breaker
	Potential Transformer (PT)
	Buzzer
	MULTI DATA METER WITH COMM.PORT RS485 (V,A,kWh,kVAh,KW, KVA,KVAR,PF,HZ).
	Emergency Push Button
	Breaker-On,Off,Trip, Spring Charge Trip, Circuit Healthy
	Trip Neutral Control Circuit
	Test terminal blocks
	Ammeter, Voltmeter
	Ammeter/Voltmeter selection switch

NOTES :-

1. THIS SLD SHALL BE READ ALONG WITH TECHNICAL SPECIFICATION.
2. NEGATIVE TOLERANCE NOT ALLOWED FOR TRANSFORMER IMPEDANCE.
3. CABLE SIZING MENTIONED IN SLD SHALL BE VALIDATED DURING CABLE SIZING CALCULATIONS.
4. ALL PROTECTION RELAYS AND MFM SHALL BE PROVIDED WITH RS485 PORT.
5. RATING OF AUXILIARY TRANSFORMER IS TENTATIVE. SAME SHALL BE AS PER LOAD SIZING CALCULATION.
6. MCR AUXILIARY TRANSFORMER RATING MAY REVISED AS PER APPROVED SIZING CALCULATIONS AND INVERTER STATION AUX. TRANSFORMER WILL BE PROVIDED AS PER REQUIREMENT.

PROJECT DETAIL

S.NO	DESCRIPTION	DETAILS
1	TOTAL NO. OF MODULES	8400 Nos.(325Wp) 24780Nos.(330Wp)
2	MODULE MAKE	SOVA
3	MODULE WATTAGE	325 & 330Wp
4	INVERTER MAKE	DELTA
5	INVERTER CAPACITY	2500 kW
6	MOUNTING SYSTEM TYPE	GROUND MOUNT
7	SOLAR ARRAY AZIMUTH	0°
8	SOLAR MODULE TILT	20°
9	TOTAL DC SYSTEM SIZE	10.9 MWp

R4	17.06.19	FOR APPROVAL	MS	GS	JS
03	25.05.19	LIL-032-PV-ELE-760-G-3001	AG	AG	PG
02	22.05.19	LIL-032-PV-ELE-760-G-3001	AG	AG	PG
01	22.04.19	LIL-032-PV-ELE-760-G-3001	AG	AG	PG
00	18.01.19	LIL-032-PV-ELE-760-G-3001	AG	AG	PG
REV.	DATE	DESCRIPTIONS	DRAWN BY	CHECKED BY	APPROVED BY

PROJECT: 10 MWP SOLAR PLANT BHAJANGHAT,  
BLOCK- KRISHNAGANJ,  
DISTRICT - NADIA, WEST BENGAL

DRAWING TITLE:

AC SLD

CLIENT	
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WEST BENGAL RENEWABLE ENERGY  
DEVELOPMENT AGENCY.

Bikalpa Shakti Bhawan, Plot No. J-1/10, Sector - V,  
EP & GP Block, Salt Lake Electronics Complex,  
North 24, Kolkata, West Bengal 700091

EPC CONTRACTOR



LUMINO INDUSTRIES LIMITED  
ACROPOLIS, 12TH FLOOR, 1858/1,  
RAJDANGA MAIN ROAD, KOLKATA-  
700 107

DRAWN BY		REVIEWED BY	AUTHORIZED BY
SANJAY CHAVAN		GAUTAM SINGH	JAYDEEP SURYAWANSHI
SCALE	SIZE	JOB NO.	
NTS	A0	6.19.6098.001	
PROJECT CODE	DRAWING NO.		REV.
19-6015	6-19-6098 - AC SLD		R4

THIS PRINT IS NOT TO BE USED FOR CONSTRUCTION UNLESS NOTED AND SIGNED OK FOR CONSTRUCTION ABOVE LAST REVISION.