


Bid No:	TeCL/CC/PSS/2026-27/03
	REQUEST FOR PROPOSAL FOR EPC PACKAGE FOR DESIGN, ENGINEERING, SUPPLY, CONSTRUCTION, TESTING & COMMISSIONING OF POOLING SUBSTATION AND ASSOCIATED POWER EVACUATION SYSTEM, INCLUDING 5 YEARS OF COMPREHENSIVE O&M

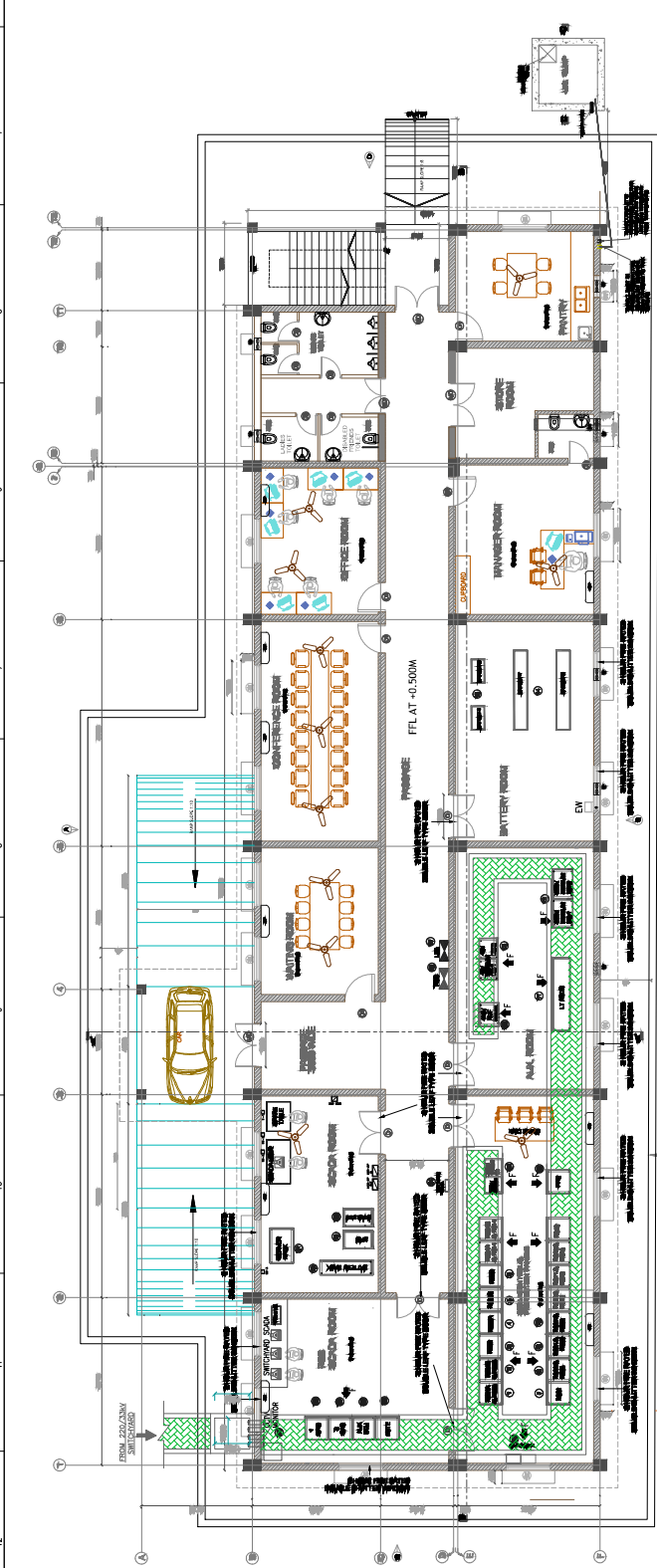


SECTION IX (A) - GROUP A - DRAWINGS

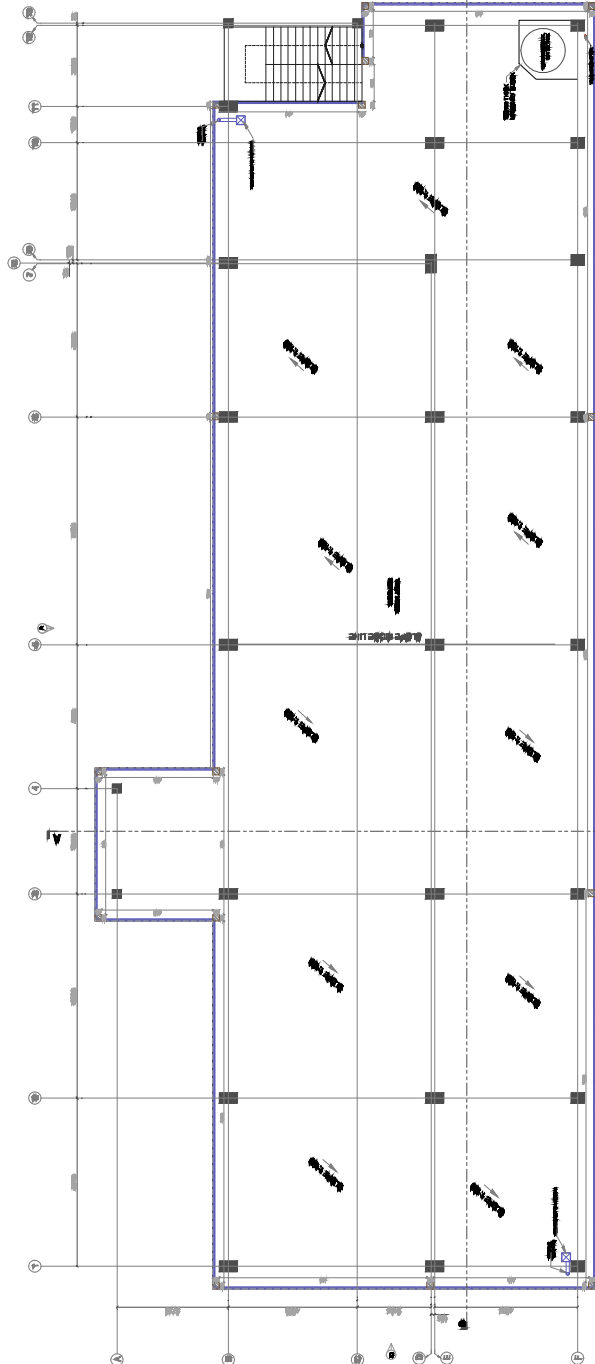
REQUEST FOR PROPOSAL FOR EPC PACKAGE FOR DESIGN, ENGINEERING, SUPPLY, CONSTRUCTION, TESTING & COMMISSIONING OF POOLING SUBSTATION AND ASSOCIATED POWER EVACUATION SYSTEM FOR 300 MW (220 kV ISTS) SOLAR PROJECT IN THE VICINITY OF MORENA PS, DISTRICT SHEOPUR, MADHYA PRADESH, INCLUDING 5 YEARS OF COMPREHENSIVE OPERATION AND MAINTENANCE

RFP NO.: TeCL/CC/PSS/2026-27/03

Issued by
Terra Clean Limited
(Procurement & Contracts Section)
10th floor, Office Block 2, NBCC Commercial Complex, East Kidwai Nagar
New Delhi - 110 023



GROUND FLOOR PLAN MAINTENANCE ROOM



GROUND FLOOR PLAN MAINTENANCE ROOM

NOTES:-

1. ALL DIMENSIONS ARE IN MM AND LVL. ARE IN METER. UNLESS OTHERWISE NOTED.
2. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
3. EL(+1) 0.00M CORRESPONDS TO FINISHED GROUND LEVEL (F.G.L.).
4. REINFORCEMENT STEEL SHALL BE HYSD Fe500 CONFORMING TO IS:1786.
5. MINOR ADJUSTMENTS MAY BE DONE AT SITE IN CONSULTATION WITH ENGINEER-IN-CHARGE.
6. ALL BRICKWORK SHALL BE WITH CEMENT MORTAR 1:5.
7. BRICKS SHALL CONFORM TO IS:1077 (CLASS II MINIMUM).
8. PAINTING OF WHOLE STEEL STRUCTURE TO BE DONE AS PER PAINTING SCHEME.
9. CEMENT USED SHALL BE OPC 53 GRADE.
10. WATERPROOF SHALL BE DONE WITH APPROVED POLYMERIC MEMBRANE WITH 10 YEAR LEAK PROOF WARRANTY.
11. PROVIDE PLINTH PROTECTION WITH SUITABLE SLOPE.

PROJECT TITLE :

220KV, 300MW SOLAR PROJECT, MORENA, MP.

CLIENT :



TERRA CLEAN LIMITED
Reg. Office Address: 10th Floor, Tower - 2,
NBCC Office Block, East Kirti Nagar,
New Delhi - 110023 (India)

DRAWING TITLE :

MAIN CONTROL ROOM ARCHITECTURAL PLAN

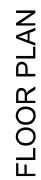
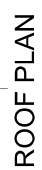
DRAWING NO. : DWG-MCR-001

SITE CO-ORDINATE.:

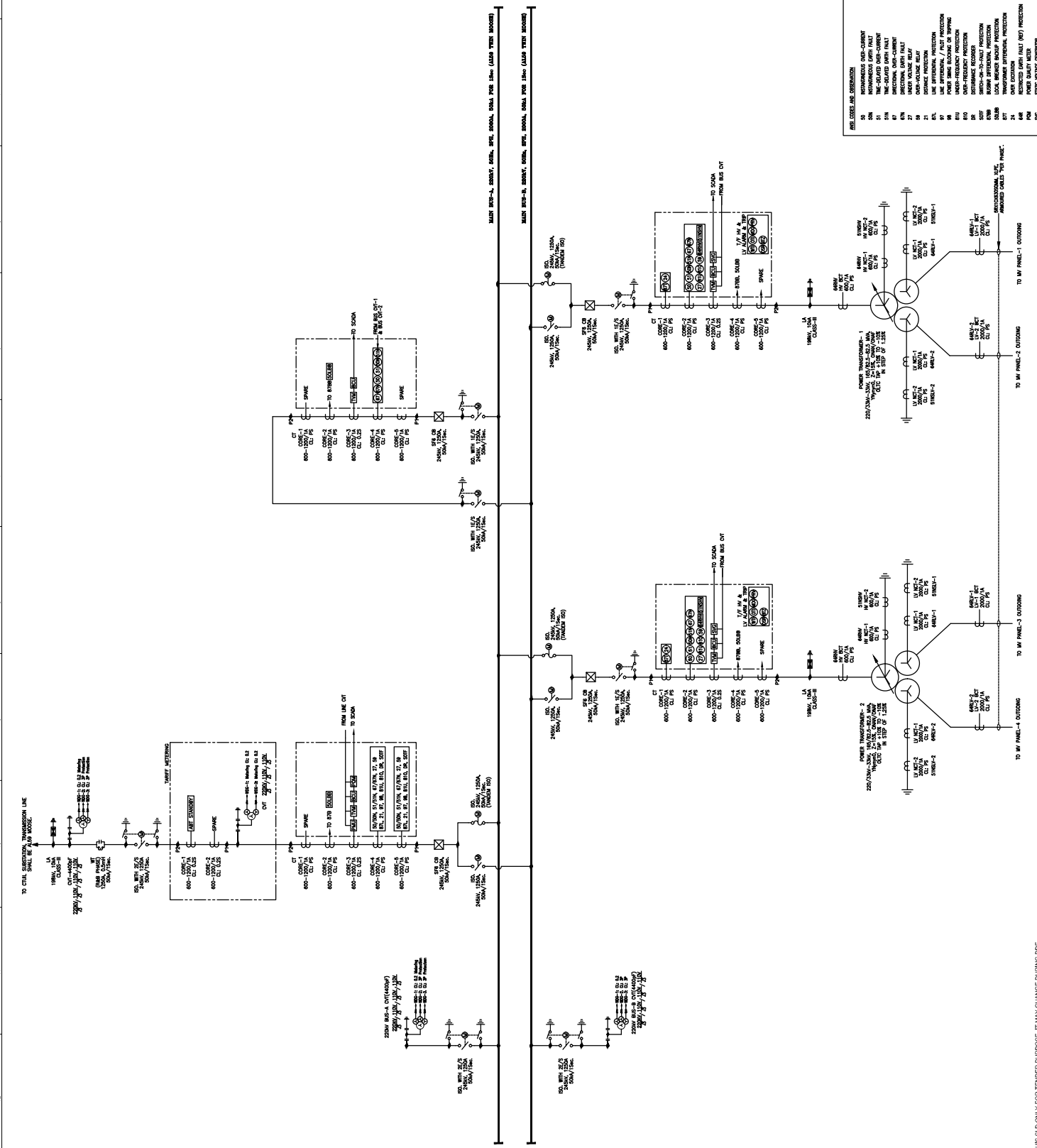
SHEET NO.	1 OF 1	SCALE	N.T.S.
DRAWN	T.S	PAPER SIZE	A0
CHECKED	T.S	REV NO.	R0
APPROVED	T.S	DATE	



1. ALL DIMENSIONS ARE IN MILLIETER UNLESS OTHERWISE SPECIFIED.
2. THIS LAYOUT IS TENTATIVE ONLY. MAY SUBJECT TO CHANGE DURING DETAIL ENGINEERING.
3. SHED DESIGN MAY CHANGE DURING DETAILED ENGINEERING.



"THIS DOCUMENT IS FOR TENDER PURPOSE ONLY. DETAILED DESIGN AND ENGINEERING SHALL BE CARRIED OUT DURING THE DETAILED ENGINEERING STAGE PRIOR TO CONSTRUCTION"



- NOTES:**
1. CT & CVT PARAMETERS SHALL BE CONFIRMED DURING DETAIL ENGINEERING. THE CT, PT & CVT DATA ARE INDICATIVE ONLY.
 2. CONDUCTOR PARAMETERS ARE CONSIDERED AS PER REQUIREMENT, MAY VARY AS PER DESIGN CALCULATION.
 3. FOR LINE PROTECTION, VOLTAGE SUPPLY SHALL BE TAKEN FROM LINE CVT/SELECTED BUS BAR.
 4. FOR BUSBAR PROTECTION, VOLTAGE SUPPLY SHALL BE TAKEN FROM BUS BAY/SELECTED BUS BAR.
 5. IN CASE OF FAILURE IN TRANSFORMER BAY, 5% CIRCUIT BREAKER, ALL OTHER 220KV CIRCUIT BREAKER TRIP THROUGH LBB.
 6. 220KV, 24-100% DC SYSTEM WHICH INCLUDE BATTERY, DUAL FC-DCS BATTERY CHARGER SHALL BE PROVIDED.
 7. AC & DC SUPPLY FAILURE STATUS WILL BE PROVIDED IN SAS.
 8. SEPARATE 48V DC SYSTEM SHALL BE PROVIDED FOR PLC/COT SYSTEM.
 9. ALL STATUTORY & REGULATORY REQUIREMENT SHALL BE FOLLOWED FOR SOLAR GENERATION AS REQUIRED.
 10. AUXILIARY TRANSFORMER SIZING SHALL BE FINALIZED DURING DETAIL ENGINEERING.
 11. THE PARAMETER OF RECEIVING END 220KV/GSS LINE CT SHOULD IN LINE WITH THE PSS DETAIL ENGINEERING.
 12. STATION TRANSFORMER RATING ARE INDICATIVE THE SAME SHALL BE REVISED DURING DETAIL ENGINEERING.
 13. GATEWAY FOR REMOTE CONTROL VIA INDUSTRIAL GRADE THROUGH IEC 61850-5-104 PROTOCOLS OR AS PER THE PROTOCOL SPECIFIED.
 14. THE RELAY SHALL HAVE SUITABLE COMMUNICATION FACILITY FOR FUTURE CONNECTIVITY TO THE CONTROL SYSTEM. THE RELAY SHALL BE CAPABLE OF SUPPORTING IEC 61850 PROTOCOLS FOR UTILITY REQUIREMENT.
 15. STATION TRANSFORMER RATING ARE INDICATIVE THE SAME SHALL BE REVISED DURING DETAIL ENGINEERING.

LEGENDS:

	CAPACITOR VOLTAGE TRANSFORMER	CT
	SURGE ARRESTER	ISOLATOR
	ISOLATOR WITH TWO EARTH SWITCH	ISOLATOR WITH ONE EARTH SWITCH
	CURRENT TRANSFORMER	POWER TRANSFORMER WITH TWO LV WINDINGS

SYSTEM PARAMETERS:

NOMINAL SYSTEM VOLTAGE (KV)	: 220KV
HIGHEST SYSTEM VOLTAGE (KV)	: 245KV
FREQUENCY (Hz)	: 50Hz
POWER FREQUENCY WITHSTAND VOLTAGE (KV)	: 105KV/5
LIGHTNING IMPULSE WITHSTAND VOLTAGE (KV)	: 460KV/10/50/100
MAXIMUM FAULT LEVEL (KA)	: 50 KA / 1 SEC
SYSTEM NEUTRAL EARTHING	: EFFECTIVELY EARTHED
CLEARANCE DISTANCE	: 25 mm/1KV
PHASE TO PHASE CLEARANCES	: 2100 mm
SECTION TO EARTH CLEARANCES	: 4000 mm
GROUND CLEARANCES	: 5000 mm

PROJECT TITLE : 220KV, 300MW SOLAR PROJECT, MORENA, MP.

OWNER'S ENGINEER

TUVINDIA
M/S TUV INDIA PVT LTD.,
Reg. Office Address: 2nd floor, Dhun Building, 827, Anna Salai, Chennai, Tamil Nadu 600002

CLIENT :

TERRA CLEAN LIMITED
Reg. Office Address: 10th Floor, Tower - 2, NBCC Office Block, East Kirtiwal Nagar, New Delhi - 110023 (India)

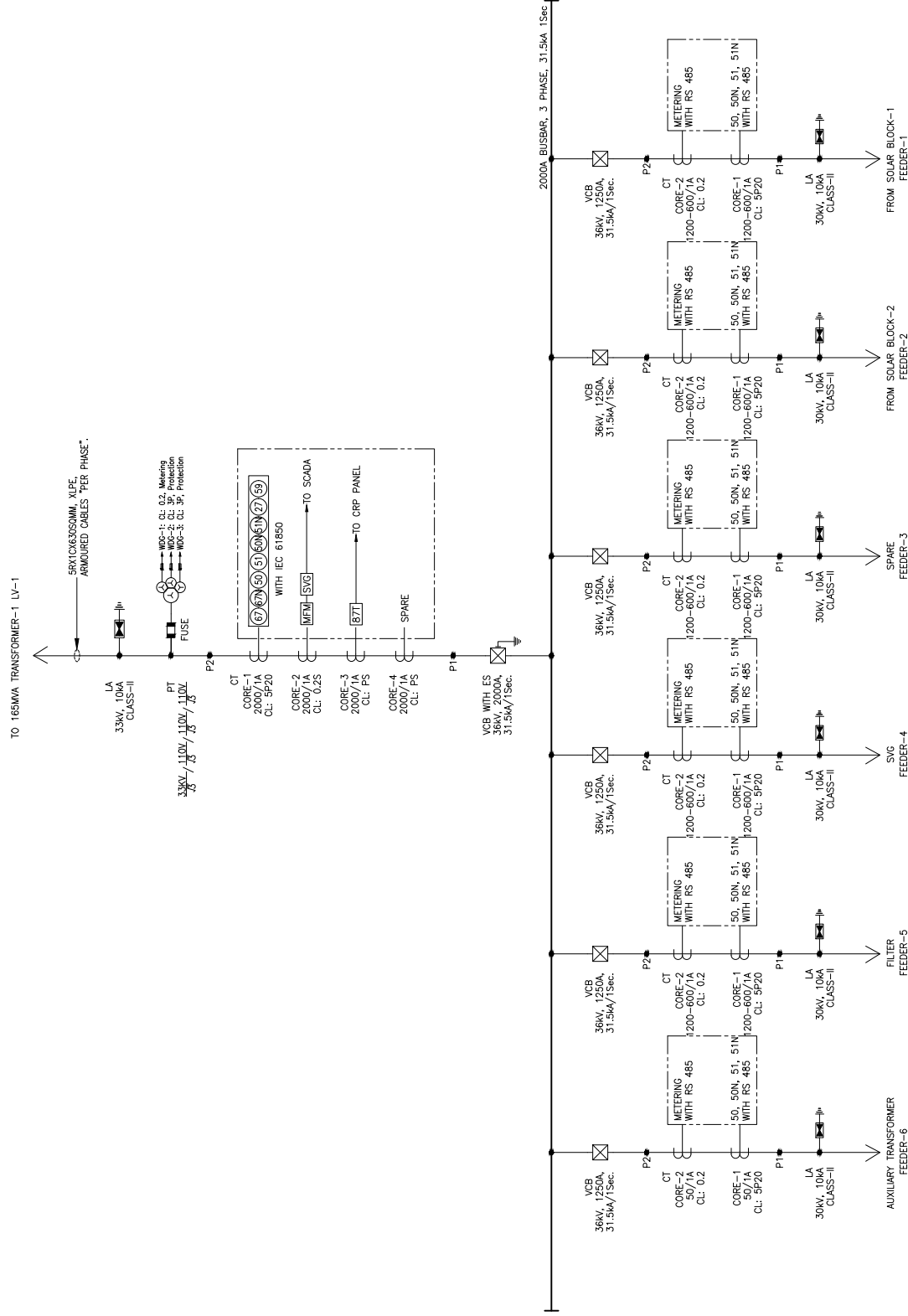
DRAWING TITLE : 300MW, 220KV/33KV POOLING SUBSTATION SLD

DRAWING NO. : DWG-PSS-001

SITE CO-ORDINATE :

SHEET NO.	1 OF 1	SCALE	N.T.S.
DRAWN	K.SENTHIL	PAPER SIZE	A0
CHECKED	K.SENTHIL	REV NO.	R2
APPROVED	RAJESH	DATE	14-05-2026

33kV MV PANEL-1 SLD



1. CT, PT AND PARAMETERS SHALL BE CONFIRMED DURING DETAIL ENGINEERING. THE CT, PT AND VOLTAGE RATIO SHALL BE INDICATED ON THE ONLY.
2. CONDUCTOR PARAMETERS ARE CONSIDERED AS PER REQUIREMENT. MAY VARY AS PER SENSING CALCULATION.
3. FOR PROTECTIONS AND METERING VOLTAGE SUPPLY SHALL BE TAKEN FROM LINE PT.
4. ALL THE STATUS INDICATION TO CB, AC & DC SUPPLY FAILURE INDICATION NEED TO BE PROVIDED AND THE STATUS WILL BE PROVIDED IN SCADA/SAS.
5. CONTROL VOLTAGE SHALL BE 220VDC
6. ALL STAT, PT, CT & REGULATORY REQUIREMENT SHALL BE FOLLOWED FOR SOLAR GENERATION AS REQUIRED.
7. AUXILIARY TRANSFORMER SENSING SHALL BE FINALIZED DURING DETAIL ENGINEERING.
8. ALL THE VCB HAVE TWO TRIP COILS.

LEGEND:	
	POTENTIAL TRANSFORMER
	SURGE ARRESTER
	FUSE
	CURRENT TRANSFORMER
	VCB WITH EARTH SWITCH
	VCB

SYSTEM PARAMETERS.

NOMINAL SYSTEM VOLTAGE (kV)	: 33kV
HIGHEST SYSTEM VOLTAGE (kV)	: 38kV
FREQUENCY (Hz)	: 50Hz
LIGHTNING IMPULSE WITHSTAND VOLTAGE (kV)	: 170kVp
POWER FREQUENCY WITHSTAND VOLTAGE (Vrms)	: 70 DRY WET TYP
MAXIMUM FAULT LEVEL (kA)	: 31.5 kA / 1 SEC
SYSTEM NEUTRAL EARTHING	: EFFECTIVELY EARTHED
PHASE TO PHASE CLEARANCES	: 320 mm
PHASE TO EARTH CLEARANCES	: 270 mm

PROJECT TITLE : 220KV, 300MW SOLAR PROJECT, MORENA, MP.

OWNER'S ENGINEER

TÜVINDIA
M/S TÜV INDIA PVT LTD.,
Reg. Office Address: 2nd floor, Dhun
Building, 827, Anna Salai, Chennai, Tamil
Nadu 600002

CLIENT :

TERRA *clean*

TERRA CLEAN LIMITED
Reg. Office Address: 10th Floor, Tower - 2,
NBCC Office Block, East Kidwai Nagar,
New Delhi - 110073 (India)

DRAWING TITLE :

DRAWING NO. :	DWG-AV-001
SITE CO-ORDINATE.::	
SHEET NO.	1 OF 4
DRAWN	K.SENTHIL
CHECKED	K.SENTHIL
APPROVED	RAJESH
	DATE
	14-05-2026
	REV NO.
	R3
	PAPER SIZE
	A3
	N.T.S.
	SCALE

33kV MV PANEL-2 SLD

NOTES:

1. CT, PT & CPT PARAMETERS SHALL BE CONFIRMED DURING DETAIL ENGINEERING. THE CT, PT & CPT DATA ARE INDICATIVE ONLY.
2. ALL PARAMETERS ARE TO BE CONFIRMED AS PER REQUIREMENT, MAY VARY AS PER DESIGN CALCULATION.
3. FOR PROTECTIONS AND METERING VOLTAGE SUPPLY SHALL BE TAKEN FROM ANY PFI.
4. ALL THE SUPPLY VOLTAGE AND/OR CT, CPT & PT SUPPLY FAILURE INDICATION NEED TO BE PROVIDED TO THE CONTROL ROOM BY THE FOLLOWING METHODS:
a. 375VDC WILL BE PROVIDED IN SCADA AS 3.
b. 375VDC WILL BE PROVIDED IN SCADA AS 3.
5. CONTROL VOLTAGE SHALL BE 220VDC
6. ALL STATUTORY & REGULATORY REQUIREMENT SHALL BE FOLLOWED FOR SOLAR GENERATION
7. ALL ELEVATION TRANSFORMER RATING SHALL BE FINAL DURING DETAIL ENGINEERING.

FORM

	POTENTIAL TRANSFORMER		VCB WITH EARTH SWITCH
	SURGE ARRESTER		VCB
	FUSE		
	CURRENT TRANSFORMER		

SYSTEM PARAMETERS.

NOMINAL SYSTEM VOLTAGE (V)	: 33kV
HIGHEST SYSTEM VOLTAGE (V)	: 38kV
FREQUENCY (Hz)	: 50Hz
LIGHTNING IMPULSE WITHSTAND VOLTAGE (kV)	: 170kV
POWER FREQUENCY WITHSTAND VOLTAGE (kVrms)	: 70 (DRY)WET kVp
MAXIMUM FAULT LEVEL (kA)	: 31.5 kA 1 SEC
SYSTEM NEUTRAL EARTHING	: EFFECTIVELY EARTHED
PHASE TO PHASE CLEARANCES	: 320 mm
PHASE TO EARTH CLEARANCES	: 270 mm

PROJECT TITLE : 220KV, 300MW SOLAR PROJECT, MORENA, MP.

OWNER'S ENGINEER

TÜV INDIA
Reg. Office Address: 2nd floor, Dhun Building, 827, Anna Salai, Chennai, Tamil Nadu 600002

CLIENT :

 **TERRA** Clean
TERRA CLEAN LIMITED
Reg. Office Address: 10th Floor, Tower - 2,
NBCC Office Block, East Kidwai Nagar,
New Delhi • 110073 (India)

DRAWING TITLE :

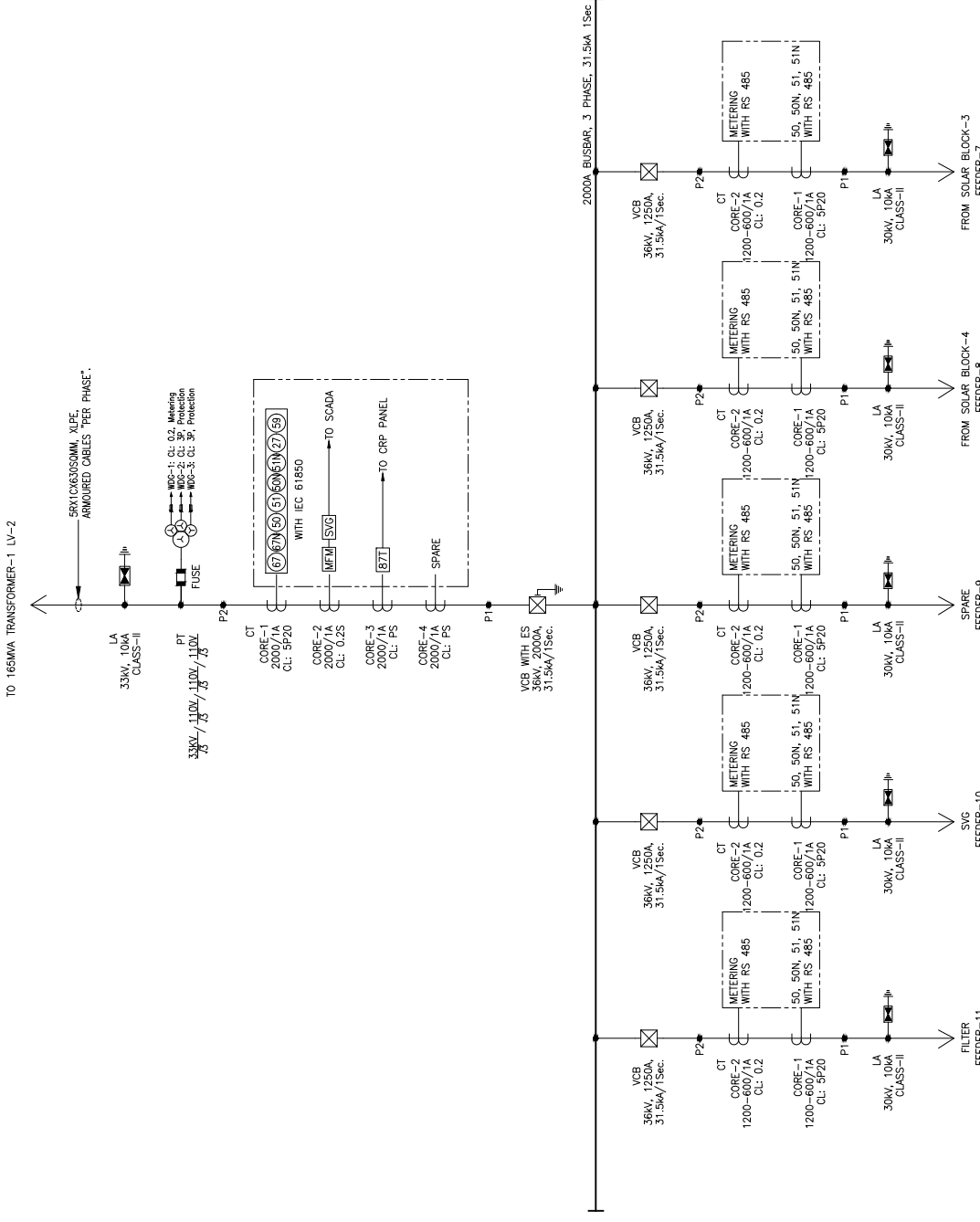
DWG-MV-002

SITE CO-ORDINATE:

SHEET NO.	2 OF 4	SCALE	N.T.S.
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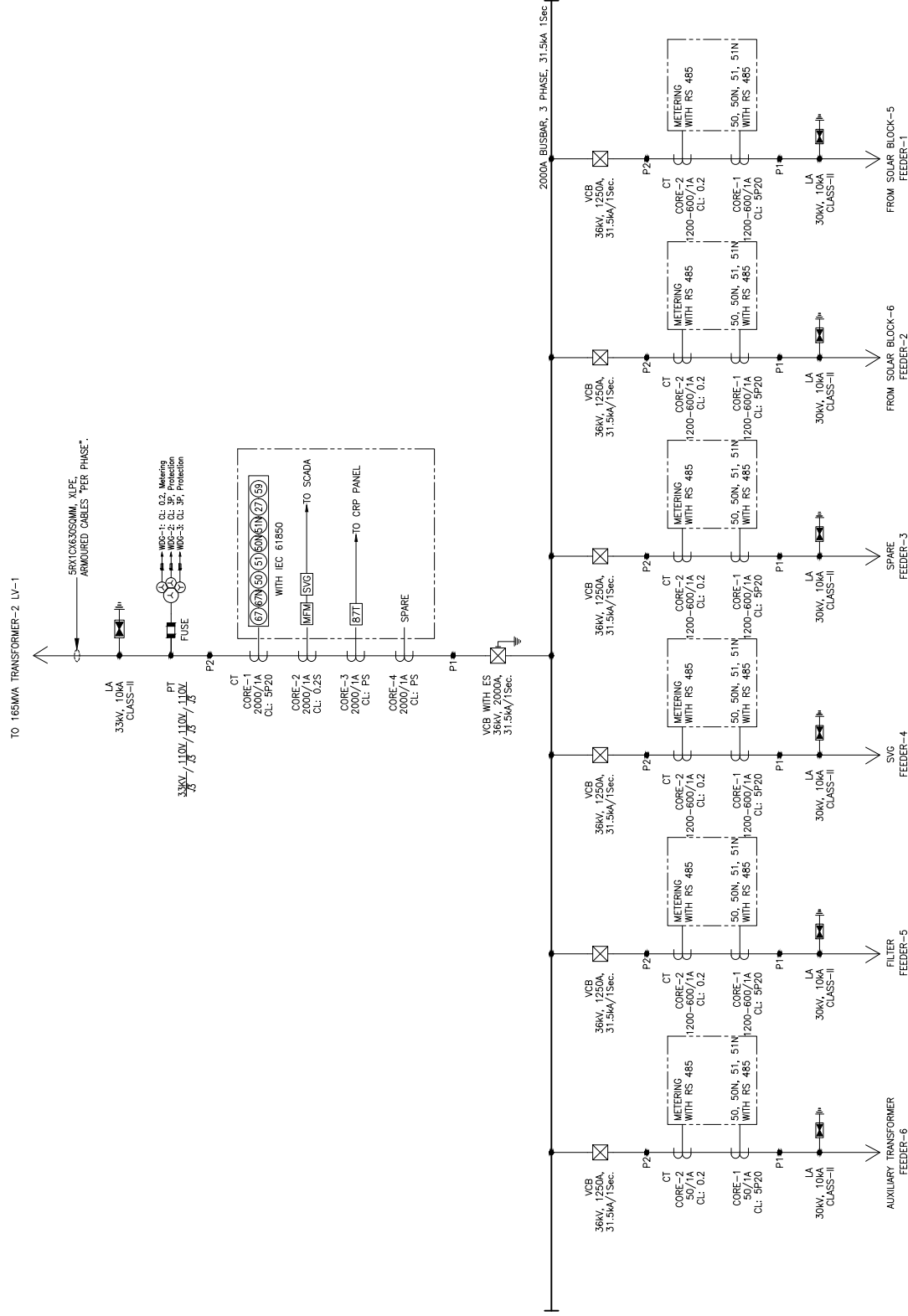
DRAWN	K. SENTHIL	PAPER SIZE	A3
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CHECKED	K.SENTHIL	REV NO.	R3
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THIS IS ONLY FOR TENDER PURPOSE IT MAY CHANGE DURING BIDDING

33kV MV PANEL-3 SLD



1. CT, PT AND PARAMETERS SHALL BE CONFIRMED DURING DETAIL ENGINEERING. THE CT, PT AND VOLTAGE RATIO SHALL BE INDICATED ON THE ONLY.
2. CONDUCTOR PARAMETERS ARE CONSIDERED AS PER REQUIREMENT. MAY VARY AS PER SENSING CALCULATION.
3. FOR PROTECTIONS AND METERING VOLTAGE SUPPLY SHALL BE TAKEN FROM LINE PT.
4. ALL THE STATUS INDICATION TO CB, AC & DC SUPPLY FAILURE INDICATION NEED TO BE PROVIDED AND THE STATUS WILL BE PROVIDED IN SCADA/S.
5. CONTROL VOLTAGE SHALL BE 220VDC
6. ALL START, STOP & REGULATORY REQUIREMENT SHALL BE FOLLOWED FOR SOLAR GENERATION AND REQUIRED.
7. AUXILIARY TRANSFORMER SENSING SHALL BE FINALIZED DURING DETAIL ENGINEERING.
8. ALL THE VCB HAVE TWO TRIP COILS.

LEGEND:	
	POTENTIAL TRANSFORMER
	SURGE ARRESTER
	FUSE
	CURRENT TRANSFORMER
	VCB WITH EARTH SWITCH
	VCB

SYSTEM PARAMETERS.

NOMINAL SYSTEM VOLTAGE (kV)	: 33kV
HIGHEST SYSTEM VOLTAGE (kV)	: 38kV
FREQUENCY (Hz)	: 50Hz
LIGHTNING IMPULS WITHSTAND VOLTAGE (kV)	: 170kV
POWER FREQUENCY WITHSTAND VOLTAGE (Vrms)	: 70 (DRY) / 72 (WET) V
MAXIMUM FAULT LEVEL (kA)	: 31.5 kA / 1 SEC
SYSTEM NEUTRAL EARTHING	: EFFECTIVELY EARTHED
PHASE TO PHASE CLEARANCES	: 320 mm
PHASE TO EARTH CLEARANCES	: 270 mm

PROJECT TITLE : 220KV, 300MW SOLAR PROJECT, MORENA, MP.

OWNER'S ENGINEER

TÜV INDIA
M/S TÜV INDIA PVT LTD.,
Reg. Office Address: 2nd floor, Dhun
Building, 827, Anna Salai, Chennai, Tamil
Nadu 600002

CLIENT :

 **TERRA**
Clean

TERRA CLEAN LIMITED
Reg. Office Address: 10th Floor, Tower - 2,
NBCC Office Block, East Kidwai Nagar,
New Delhi - 110023 (India)

DRAWING TITLE :

DRAWING NO. :	DWG-WV-003				
SITE CO-ORDINATE :					
SHEET NO.	3 OF 4			SCALE	N.T.S.
DRAWN	K.SENTHIL			PAPER SIZE	A3
CHECKED	K.SENTHIL			REV NO.	R3
APPROVED	RAJESH			DATE	14-05-2026

33kV MV PANEL-4 SLD

NOTES:

1. CT, PT & CPT PARAMETERS SHALL BE CONFIRMED DURING DETAIL ENGINEERING. THE CT, PT & CPT DATA ARE INDICATIVE ONLY.
2. ALL PARAMETERS ARE TO BE CONFIRMED AS PER REQUIREMENT, MAY VARY AS PER LOADING CONDITIONS.
3. FOR PROTECTIONS AND METERING VOLTAGE SUPPLY SHALL BE TAKEN FROM LINE PT.
4. ALL TRANSFORMER WINDINGS SHALL BE PROVIDED WITH 1% SUPPLY FAILURE INDICATION NEED TO BE PROVIDED WITH 1% SUPPLY FAILURE INDICATION.
5. CONTROL VOLTAGE SHALL BE 220VAC
6. ALL SWITCHING & REGULATORY REQUIREMENT SHALL BE FOLLOWED FOR SOLAR GENERATION
7. ALL LEADY TRANSFORMER WINDING SHALL BE FINAL DURING DETAIL ENGINEERING.

FORMID

	POTENTIAL TRANSFORMER		VCB WITH EARTH SWITCH
	SURGE ARRESTER		VCB
	FUSE		
	CURRENT TRANSFORMER		

SYSTEM PARAMETERS.

NOMINAL SYSTEM VOLTAGE (V)	: 33kV
HIGHEST SYSTEM VOLTAGE (V)	: 39kV
FREQUENCY (Hz)	: 60Hz
LIGHTNING IMPULSE WITHSTAND VOLTAGE (kV)	: 70kVp
POWER FREQUENCY WITHSTAND VOLTAGE (kV)	: 70 DRY/WET 1p
MINIMUM FAULT LEVEL (kA)	: 31.5 kA / 1 SEC
SYSTEM NEUTRAL EARTHING	: EFFECTIVELY EARTHED
PHASE TO PHASE CLEARANCES	: 320 mm
PHASE TO EARTH CLEARANCES	: 270 mm

PROJECT TITLE:

[illegible]

OWNER'S ENGINEER



TÜVINDIA
M/S TÜV INDIA PVT LTD.,
Reg. Office Address: 2nd floor, Dhun
Building, 827, Anna Salai, Chennai, Tamil
Nadu 600002

CLIENT:

TERRA CLEAN LIMITED

 **TERRA** Jean

Reg. Office Address: 10th Floor, Tower - 2,
NBCC Office Block, East Kidwai Nagar,
New Delhi - 110073 (India)

DRAWING TITLE:

331-V MV DANIEL ACID

DRAWING NO. : 800-100-000

[illegible][illegible]

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