


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

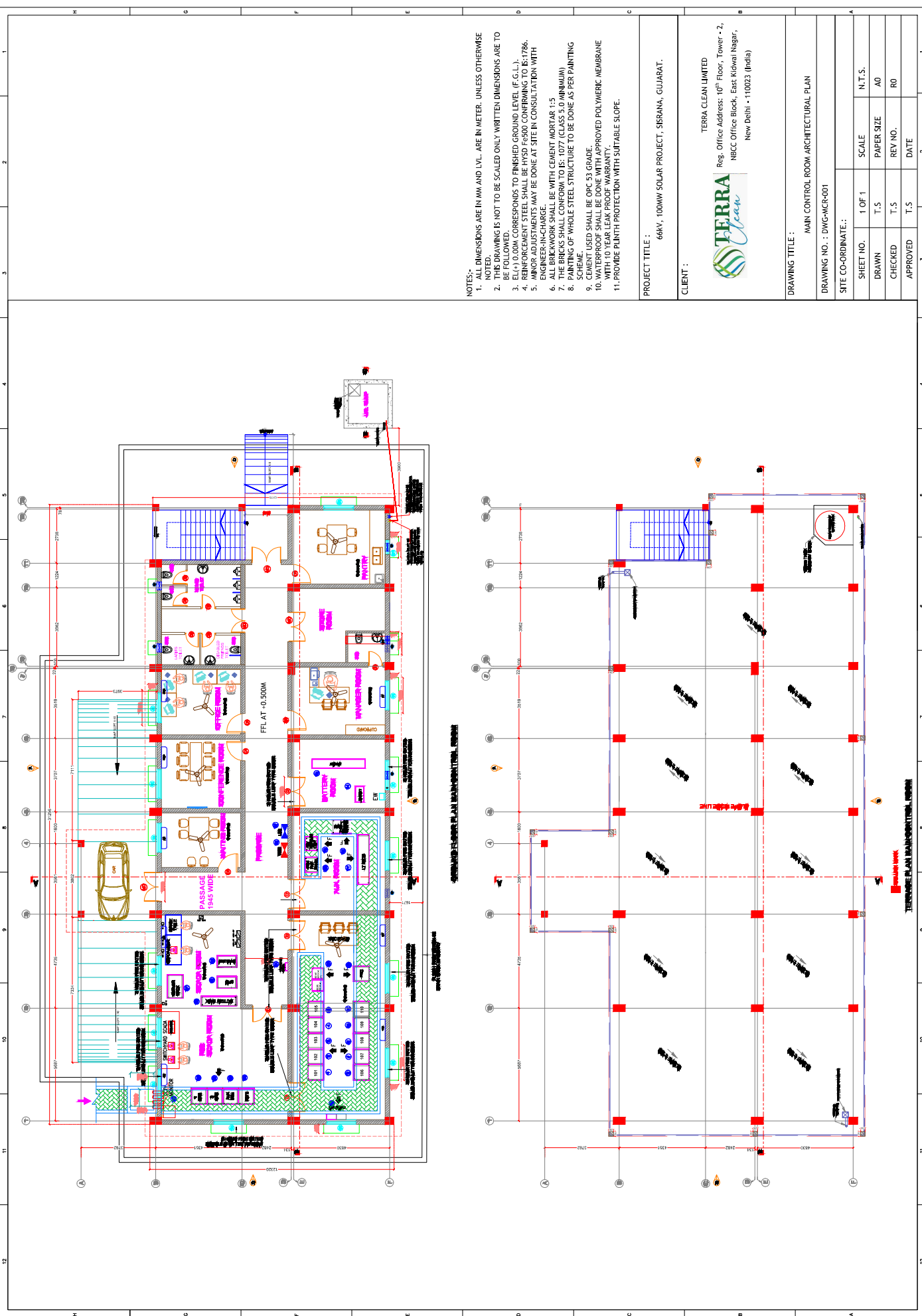


SECTION IX (B) - GROUP B - DRAWINGS

REQUEST FOR PROPOSAL FOR EPC PACKAGE FOR DESIGN, ENGINEERING, SUPPLY, CONSTRUCTION, TESTING & COMMISSIONING OF POOLING SUBSTATION AND ASSOCIATED POWER EVACUATION SYSTEM FOR 100 MW (66 kV InSTS) SOLAR PROJECT IN THE VICINITY OF SISRANA GETCO SS, DISTRICT BANASKANTHA, GUJARAT, 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



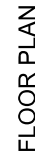
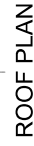
- NOTES:-
1. ALL DIMENSIONS ARE IN MM AND LVL ARE IN METER. UNLESS OTHERWISE NOTED.
 2. THE DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
 3. ELEVATION CORRESPONDS TO FINISHED GROUND LEVEL (IF G.L.).
 4. ALL JOINTS AND STEEL SHALL BE WELDED AS PER IS: 817.
 5. MINOR ADJUSTMENTS MAY BE DONE AT SITE IN CONSULTATION WITH ENGINEER-IN-CHARGE.
 6. ALL BRICKWORK SHALL BE WITH CEMENT MORTAR 1:3.
 7. THE BRICKS SHALL CONFORM TO IS: 1077 (CLASS 5.0 MINIMUM) SCHEME.
 8. PAINTING OF WHOLE STEEL STRUCTURE TO BE DONE AS PER PAINTING SCHEME.
 9. CHIMNEY SHALL BE DONE WITH APPROVED POLYMERIC MEMBRANE WITH 10 YEAR LEAK PROOF WARRANTY.
 11. PROVIDE PLINTH PROTECTION WITH SUITABLE SLOPE.

PROJECT TITLE : 66kW, 100MW SOLAR PROJECT, SERRANA, GUJARAT.

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

DRAWING TITLE : MAIN CONTROL ROOM ARCHITECTURAL PLAN
DRAWING NO. : DWG-MCR-001

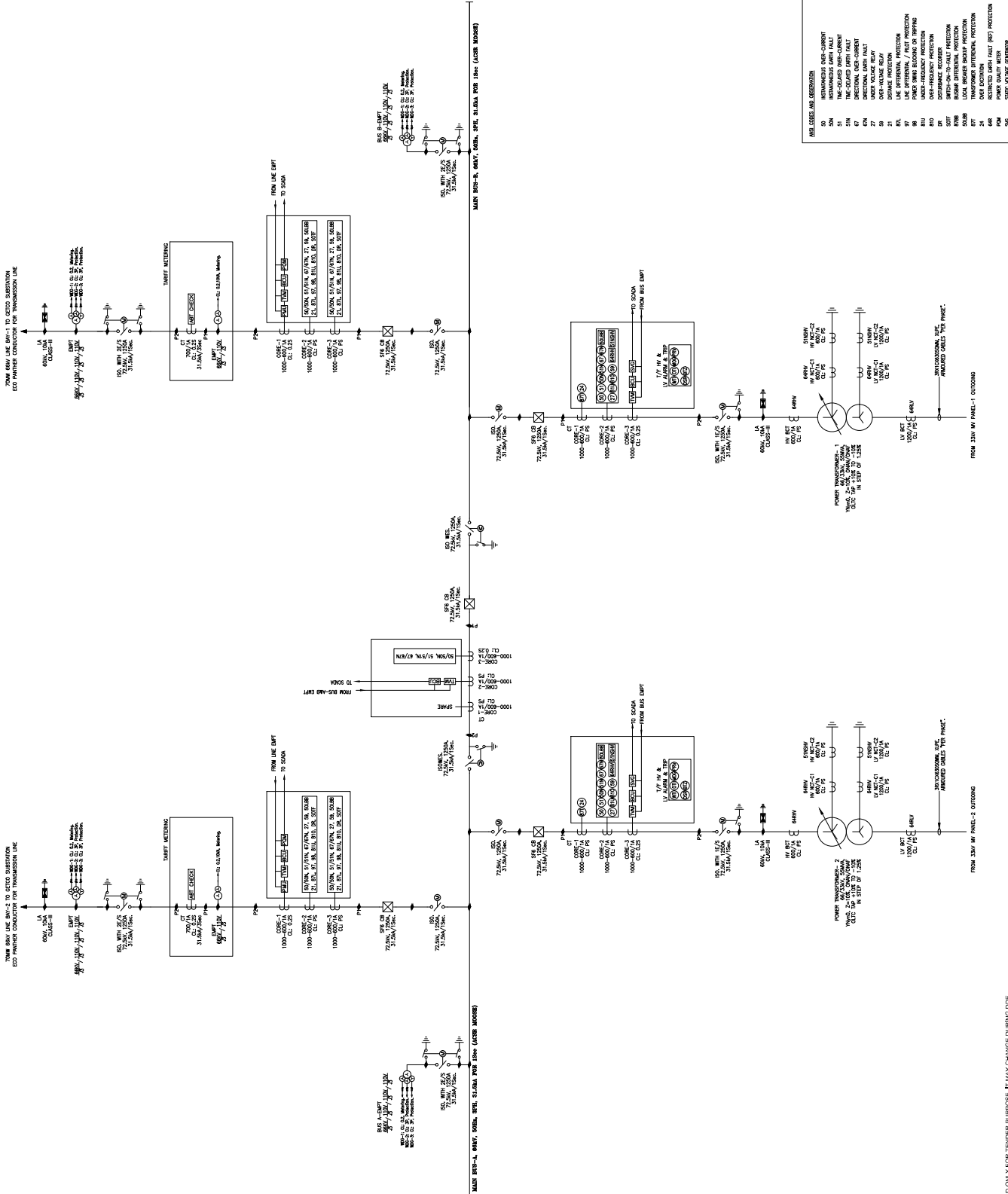
SITE CO-ORDINATE::			
SHEET NO.	1 OF 1	SCALE	N.T.S.
DRAWN	T.S.	PAPER SIZE	A0
CHECKED	T.S.	REV NO.	R0
APPROVED	T.S.	DATE	



REVIEW	CONSTRUCTION	DWG-MIV-003	R0
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"THIS DOCUMENT IS FOR TENDER PURPOSE ONLY. DETAILED DESIGN AND ENGINEERING SHALL BE CARRIED OUT DURING THE DETAILED ENGINEERING STAGE PRIOR TO CONSTRUCTION"

100MW 66KV/33KV POOLING SUBSTATION SLD



- NOTES:**
1. CT & PT PARAMETERS SHALL BE CONFIRMED DURING DETAIL ENGINEERING. THE CT, PT & DATA ARE INDICATIVE ONLY.
 2. CONDUCTOR PARAMETERS ARE CONSIDERED AS PER REQUIREMENT. MAY VARY AS PER SIZING CALCULATION.
 3. FOR LINE PROTECTION VOLTAGE SUPPLY SHALL BE TAKEN FROM LINE OY/SELECTED BUS CVT FOR 66KV & 33KV LINE PROTECTION TAKEN FROM BUS PT.
 4. FOR BUSBAR PROTECTION VOLTAGE SUPPLY SHALL BE TAKEN FROM BUS CVT/BUS PT.
 5. IN CASE OF FAILURE IN TRANSFORMER BAY SF6 CIRCUIT BREAKER, ALL OTHER 66KV CIRCUIT BREAKER TRIP THROUGH LBB.
 6. 220V, 240V DC SYSTEM WHICH INCLUDE BATTERY, DUAL FC/DCB 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/FOT 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 PARAMETERS OF RECEIVING END GSS LINE CT SHOULD IN LINE WITH THE PSS 66KV OUTGOING LINE.
 12. STATION TRANSFORMER RATING ARE INDICATIVE THE SAME SHALL BE REVISED DURING DETAIL ENGINEERING.
 13. GATEWAY FOR REMOTE CONTROL VIA INDUSTRIAL GRADE THROUGH IEC 60870-5-104 PROTOCOLS OR AS PER THE PROTOCOL SPECIFIED.
 14. THE RELAY SHALL HAVE SUITABLE COMMUNICATION FACILITY FOR FUTURE CONNECTIVITY TO SUPPORTING IEC 61850 PROTOCOLS AS PER UTILITY REQUIREMENT.
 15. STATION TRANSFORMER RATING ARE INDICATIVE THE SAME SHALL BE REVISED DURING DETAIL ENGINEERING.

LEGENDS:

	POTENTIAL TRANSFORMER
	SURGE ARRESTER
	ISOLATOR
	CURRENT TRANSFORMER
	POWER TRANSFORMER

SYSTEM PARAMETERS:

NOMINAL SYSTEM VOLTAGE (KV)	: 66KV
HIGHEST SYSTEM VOLTAGE (KV)	: 72.5KV
FREQUENCY (Hz)	: 50Hz
POWER FREQUENCY WITHSTAND VOLTAGE (KV)	: 140 (GV/WT/MP)
LINE INSULATION WITHSTAND VOLTAGE (KV)	: 175 (GV/WT/MP)
MINIMUM FAULT LEVEL (KA)	: 31.5 KA (1 SEC)
SYSTEM NEUTRAL EARTHING	: EFFECTIVELY EARTHED
CREEPAGE DISTANCE	: 25 mm/KV
PHASE TO PHASE CLEARANCES	: 600 mm
SECTION (SAFETY WORKING) CLEARANCES	: 3100 mm
GROUND CLEARANCES	: 4000 mm

PROJECT TITLE : 66KV, 100MW SOLAR PROJECT, SISRAHA, GUJARAT.

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 Kailash Nagar, New Delhi - 110023 (India)

DRAWING TITLE : 100MW 66KV/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.	R1
APPROVED	RAJESH	DATE	14-05-2026

