DEVELOPMENT OF 129 MW AC SOLAR PHOTOVOLTAIC PLANT -AT SCCL,Telangana

PROJECT NAME:	**MANUGURU 30MW SOLAR PV PROJECT**
TITLE OF THE DRAWING:	**AC SINGLE LINE DIAGRAM**
DOCUMENT NO:	**BHEL-SECI-SD-SCCL30-DWG-ELE-002**

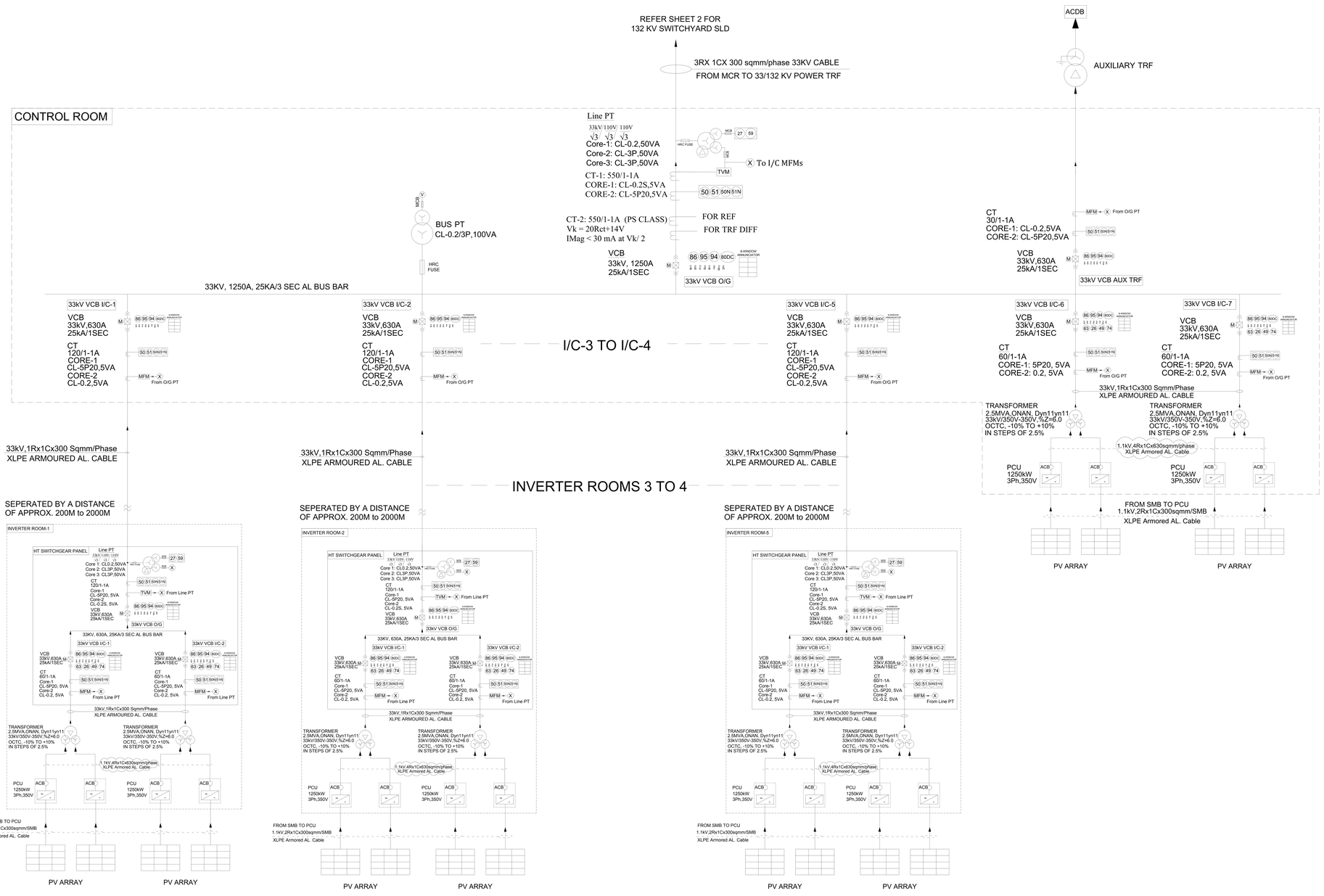
SL.NO	CONTENTS
1	AC SINGLE LINE DIAGRAM

1	08-03-19	FOR APPROVAL	LNK	PRV	PRV
0	15-02-19	FOR APPROVAL	LNK	PRV	PRV
REV NO.	DATE	STATUS	INITIALS	INITIALS	INITIALS
PROJECT:			PREPARED BY	CHECKED BY	APPROVED BY
DEVELOPMENT OF 129 MW-AC			DOC No:	BHEL-SECI-SD-SCCL30-DWG-ELE-002	
SOLAR PHOTOVOLTAIC PLANT -AT SCCL,Telangana			DOC Name:	AC SINGLE LINE DIAGRAM	

FIRST ANGLE PROJECTION

ALL DIMENSIONS ARE IN mm

DRAWING NO.



LEGEND DETAILS

SL. NO.	SYMBOL	DESCRIPTION
1		INVERTER TRANSFORMER / POWER TRANSFORMER
2	M	33KV VACUUM CIRCUIT BREAKER
3		132 kV SF6 BREAKER
4	86	MASTER TRIP RELAY
5	95 195 295	TRIP CIRCUIT SUPERVISION RELAY
6	94	ANTI PUMPING RELAY
7	63	BUCHHOLZ RELAY
8	26	MAGNETIC OIL LEVEL GAUGE
9	49	WINDING TEMP INDICATOR AND OIL TEMP INDICATOR
10	74	PRESSURE RELIEF DEVICE
11	50	INST OVER CURRENT RELAY
12	51	IDMT OVER CURRENT RELAY
13	50N	NEUTRAL INSTANTANEOUS OVER CURRENT RELAY
14	51N	IDMT EARTH FAULT RELAY
15	MFM	MULTI FUNCTION METER
16		CURRENT TRANSFORMER
17	27	UNDER VOLTAGE RELAY
18	59	OVER VOLTAGE RELAY
19		POTENTIAL TRANSFORMER
20		FUSE
21	ABT	ABT TARIFF ENERGY METER
22	80DC	DC FAILURE INDICATION
23	~ -	INVERTER, 1250kVA
24		ACB
25		LIGHTNING ARRESTER
26	64R	RESTRICTED EARTH FAULT RELAY
27	87T	TRANSFORMER DIFFERENTIAL RELAY
28	30	ANNUNCIATOR RELAY
29	50LBB	LOCAL BREAKER BACKUP PROTECTION
30	87L	LINE DIFFERENTIAL PROTECTION RELAY
31		ISOLATOR WITH DOUBLE EARTH SWITCH
32		ISOLATOR WITH SINGLE EARTH SWITCH

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REV.	DATE	ALTERED / CHECKED / APPROVED
01	08.03.19	Revised as per customer comments.
00	15.02.19	FIRST ISSUE

	NAME	SIGN	DATE
DRAWN			11.01.2019
CHECKED			
APPROVED			

DISTRIBUTION OF PRINTS

PROJECT : MANUGURU 30MW SOLAR POWER PLANT
CUSTOMER : SCCL

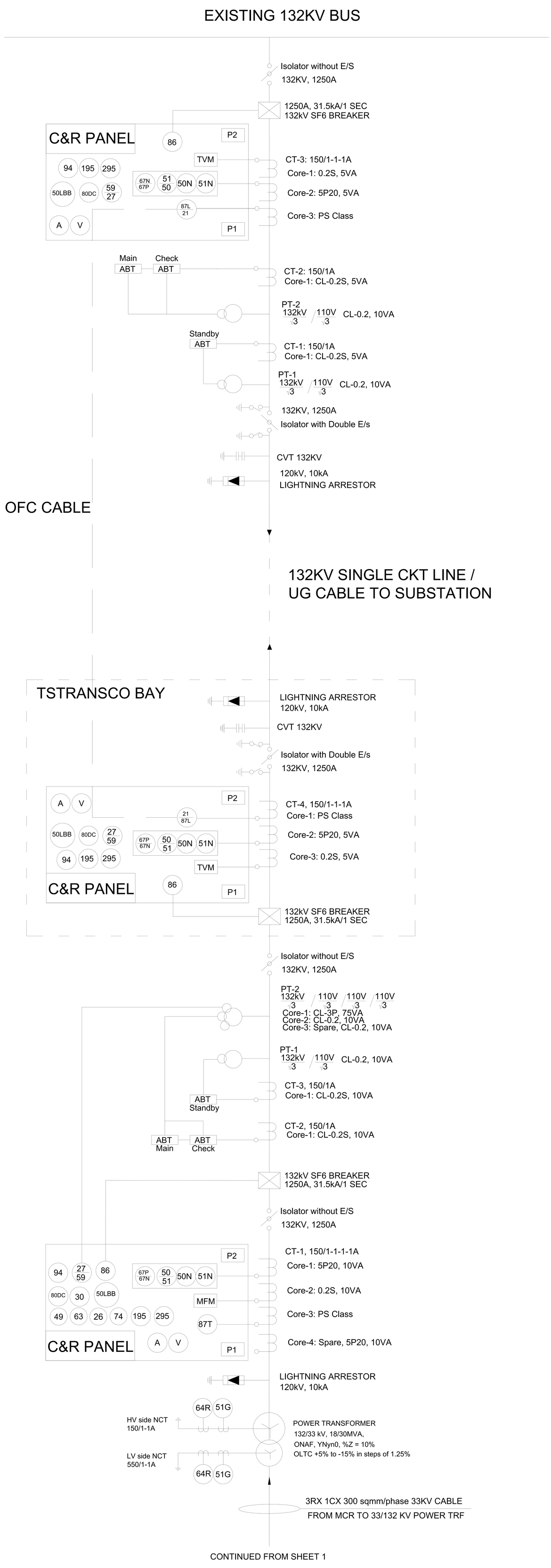
BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

TITLE: AC SINGLE LINE DIAGRAM

No. OF SHEETS	02
SHEET No.	01
REV	01

BHEL DRG. No. BHEL-SECI-SD-SCCL30-DWG-ELE-002

A0 SIZE



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No. OF SHEETS 02
SHEET No. 02
REV 01

	NAME	SIGN	DATE
DRAWN			11.01.2019
CHECKED			
APPROVED			

DISTRIBUTION OF PRINTS

DEPT. CODE

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