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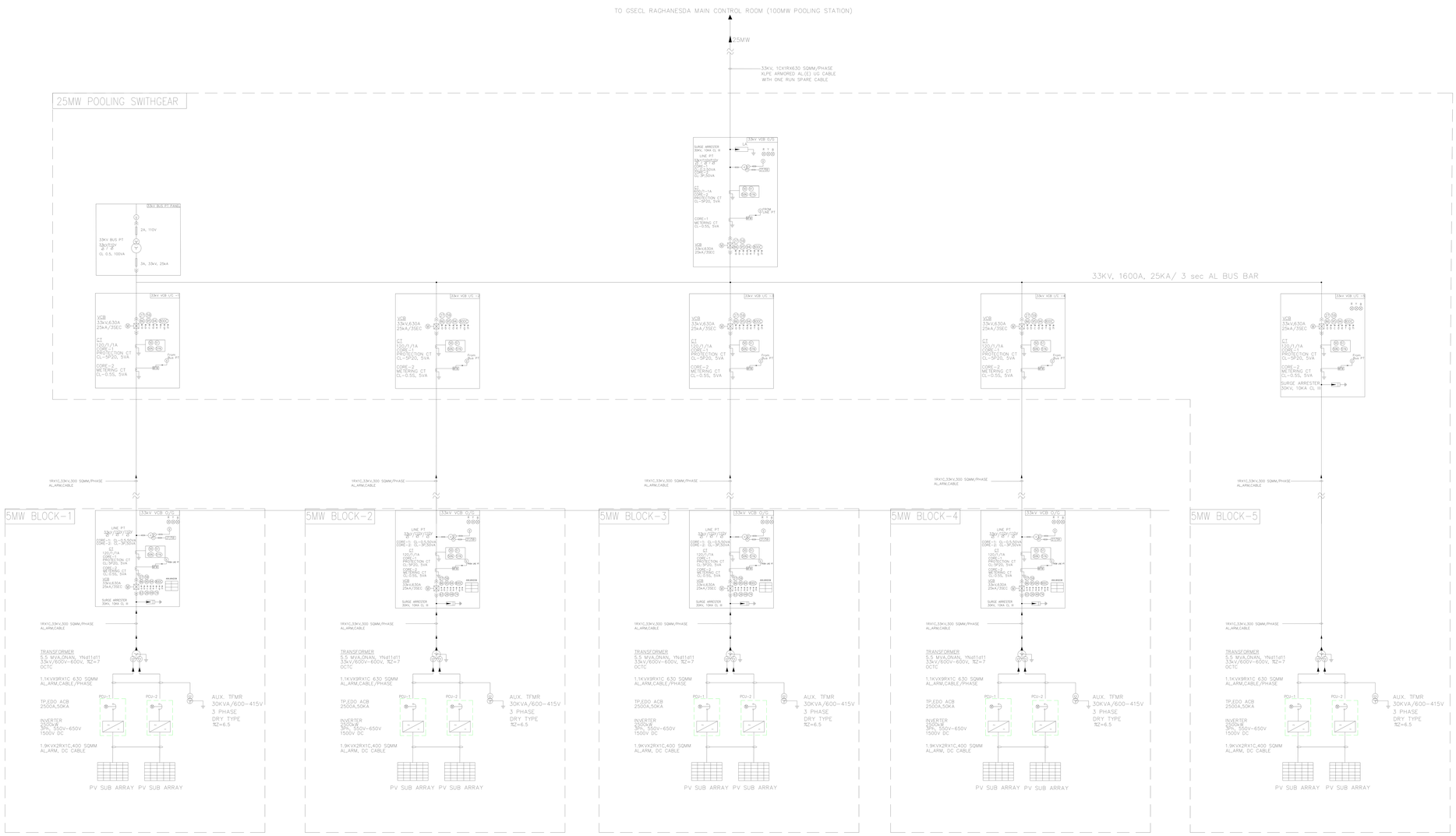
* THERE WILL BE FOUR BLOCKS OF 25MW FOR THE 100MW SPV PLANT



NOTE:
ALL PCUS, TRANSFORMER, HT PANEL ARE OF OUTDOOR TYPE.

LEGEND DETAILS

SL. NO.	SYMBOL	DESCRIPTION
1		INVERTER TRANSFORMER
2		VCB 33kV,630A
3		245 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	50 N	NEUTRAL INSTANTANEOUS OVER CURRENT RELAY
14	51 N	NEUTRAL IDMT EARTH FAULT RELAY
15	27	UNDER VOLTAGE RELAY
16	59	OVER VOLTAGE RELAY
17	DC DC	DC FAILURE INDICATION
18	87	DIFFERENTIAL PROTECTION RELAY
19	30	ANNUNCIATOR RELAY
20	95	TRIP CIRCUIT SUPERVISION RELAY
21	67	AC DIRECTIONAL OVER CURRENT RELAY
22	24	VOLTS PER HERTZ RELAY
23	64R HV	RESTRICTED EARTH FAULT RELAY (HV SIDE)
24	64R LV	RESTRICTED EARTH FAULT RELAY (LV SIDE)
25	50LBB	LOCAL BREAKER BACKUP PROTECTION
26		CURRENT TRANSFORMER
27		FUSE
28	MFM	MULTI FUNCTION METER
29	ABT	ABT TARIFF ENERGY METER
30		POTENTIAL TRANSFORMER
31		LIGHTENING ARRESTER
32		ISOLATOR WITH DOUBLE EARTH SWITCH
33		ISOLATOR WITH SINGLE EARTH SWITCH
34		ISOLATOR WITHOUT EARTH SWITCH
35		INVERTER, 2500kVA, 600V AC, 1500V DC
36		ELECTRICALLY DRAW OUT ACB
37	a	VCB ON
38	b	VCB OFF
39	c	SPRING CHARGE
40	d	AUTO TRIP
41	e	TRIP CIRCUIT HEALTHY
42	f	SERVICE POSITION
43	g	TEST POSITION
44	h	DC FAILURE
45		ANNUNCIATOR WINDOW
46		RYB INDICATION

NAME OF PROJECT: 100MW SOLAR POWER PLANT RAGHANESDA
NAME OF CUSTOMER: GSECL

BHARAT HEAVY ELECTRICALS LIMITED
ELECTRONICS DIVISION, BANGALORE

	NAME	SIGN.	DATE	No.OF VAR
DRN	SEEMA		8-8-19	
CKD	GLNM			
APPD	MS			

REV.	DATE	ALTERED / CHECKED / APPROVED
01	8-8-19	AS PER DISCUSSIONS AT VADODARA ON DATED 31-7-19, THE NECESSARY MODIFICATIONS ADDED.
02	21-8-19	1) BUS PT IS OF DRAW OUT TYPE. 2) LA ADDED AT INCOMER. 3) RYB INDICATION ADDED AT OUTGOER. AS PER CUSTOMER COMMENT. 4)BUSHING CT PROVIDED FOR 64RHV PROTECTION.

DEPT. SC&PV
CODE
SCALE
WEIGHT(Kg)
REF. TO ASSY. DRG.
ITEM NO.
No.OF ITEM

TITLE
AC SINGLE LINE DIAGRAM- 100MW

DRAWING NO. 3-SK-GSECL-75-SLD
REV. 02.
SHEET NO. 01
NO. OF SHEETS : 02
A2 SIZE

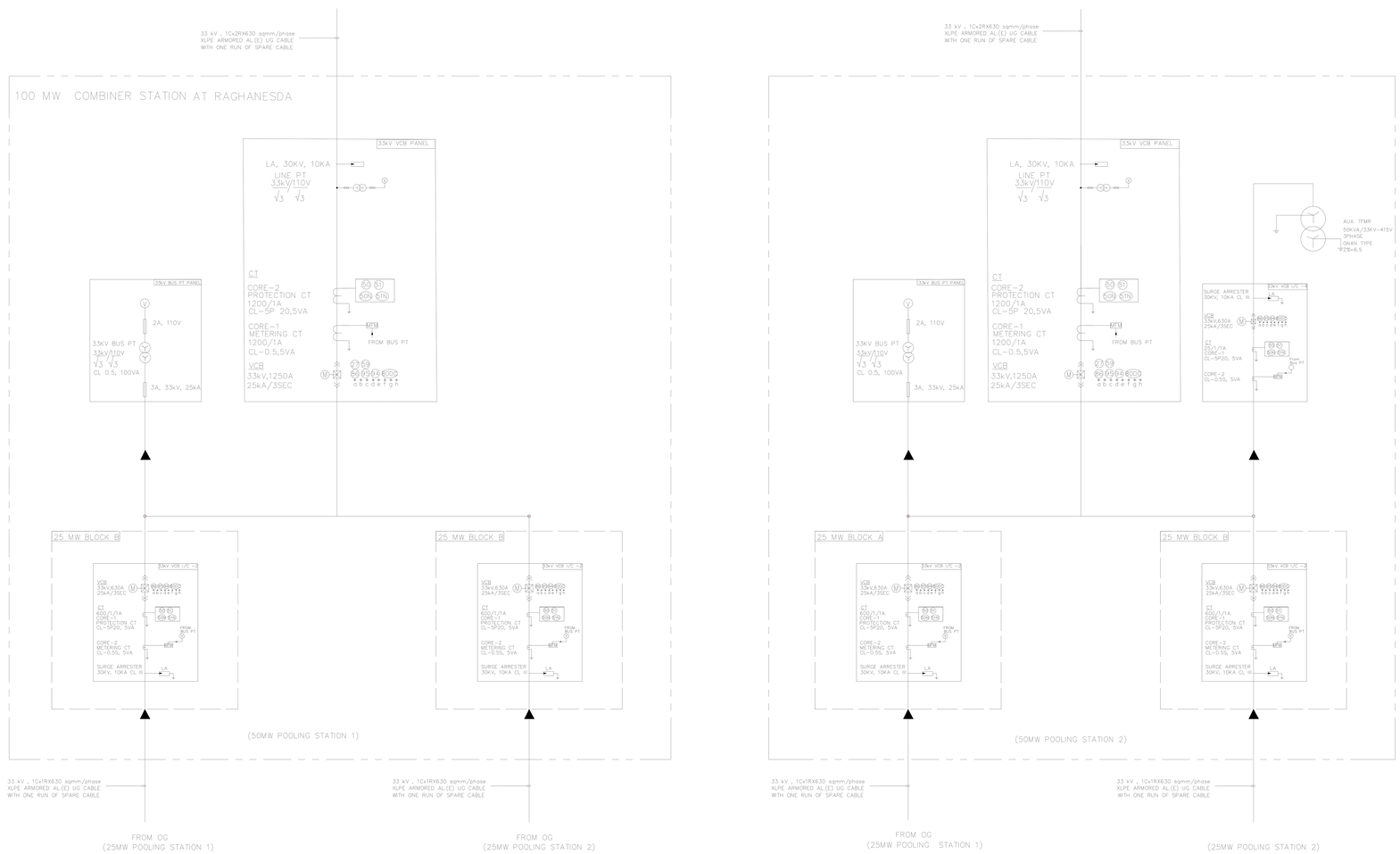
REF. DRG.NO. FILEREF
SIGN & DATE
INVENTORY NO.

FIRST ANGLE PROJECTION

ALL DIMENSIONS ARE IN mm

DRAWING NO.

NOTE:
ALL PCUS, TRANSFORMER,
HT PANEL ARE OF OUTDOOR TYPE.



LEGEND DETAILS

SL. NO.	SYMBOL	DESCRIPTION
1		INVERTER TRANSFORMER
2		VCB 33kV,630A
3		245 kV SF6 BREAKER
4	86	MASTER TRIP RELAY
5	95 195 295	TRIP CIRCUIT SUPERVISION RELAY
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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, 2500kVA, 550V AC, 1500V DC
24		ELECTRICALLY DRAW OUT ACB
25		LIGHTENING ARRESTER
26	64RLV	RESTRICTED EARTH FAULT RELAY (LV SIDE)
27	87T	TRANSFORMER DIFFERENTIAL RELAY
28	30	ANNUNCIATOR RELAY
29	50LBB	LOCAL BREAKER BACKUP PROTECTION
30	95	TRIP CIRCUIT SUPERVISION RELAY
31	67	DIRECTIONAL OVER CURRENT RELAY
32		ISOLATOR WITH DOUBLE EARTH SWITCH
33		ISOLATOR WITH SINGLE EARTH SWITCH
34		ISOLATOR WITHOUT EARTH SWITCH
35	64RHV	RESTRICTED EARTH FAULT RELAY (HV SIDE)

PROJECT : 100MW SOLAR POWER PLANT RAGHANESDA
CUSTOMER: GSECL

BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

	NAME	SIGN.	DATE	No.OF VAR
DRN	SEEMA		7-8-19	
CKD	GLNM			
APPD	MS			

REV.	DATE	ALTERED	CHECKED	APPROVED
01	7-8-19	AS PER DISCUSSIONS AT VADODARA ON DATED 31-7-19, THE NECESSARY MODIFICATIONS ADDED		

DEPT. SC&PV
CODE
FOR UNSPECIFIED TOLERANCES REFER ED 0230499
SCALE NTS
WEIGHT(Kg) 1:1
REF. TO ASSY. DRG.
ITEM NO.
NO.OF ITEM

TITLE
AC SINGLE LINE DIAGRAM- 100MW

DRAWING NO. 3-SK-GSECL-75-SLD
REV. 01
SHEET NO. 01
NO. OF SHEETS.02

A1 SIZE

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REF. DRG.NO. REF

SIGN. & DATE

INVENTORY NO.