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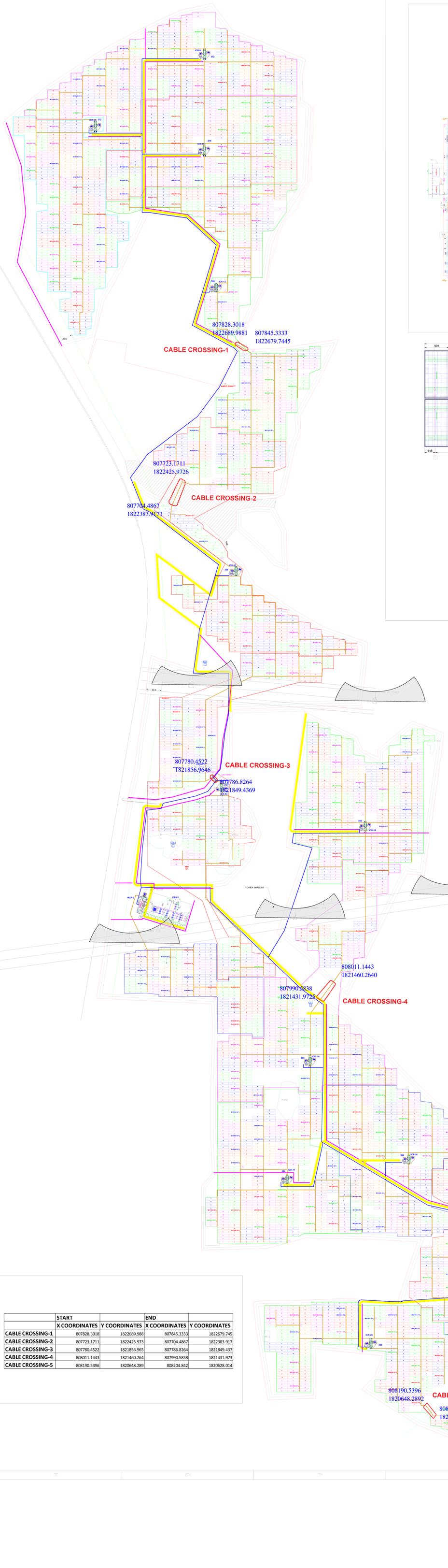
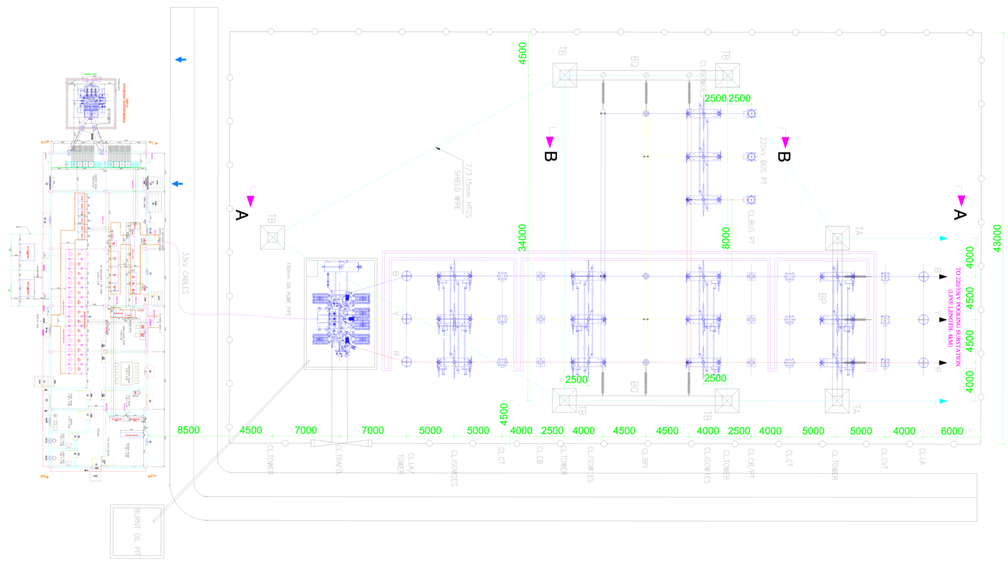
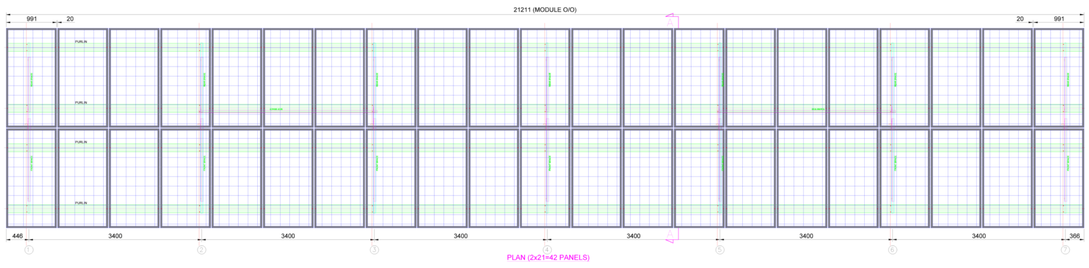
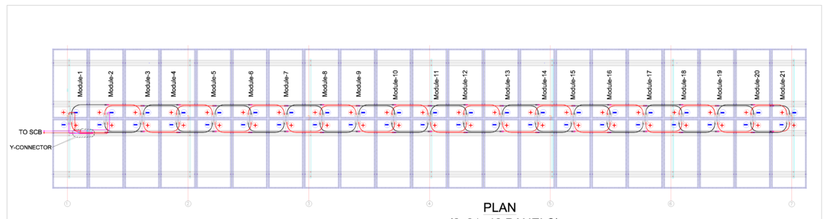


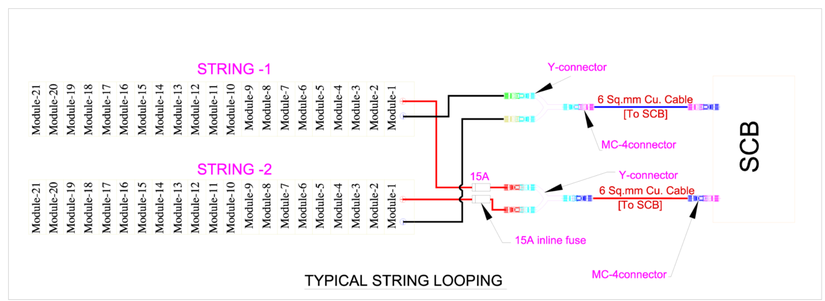
PSS2 & MAIN CONTROL ROOM2(MCR)







PLAN
(2x21=42 PANELS)



TYPICAL STRING LOOPING

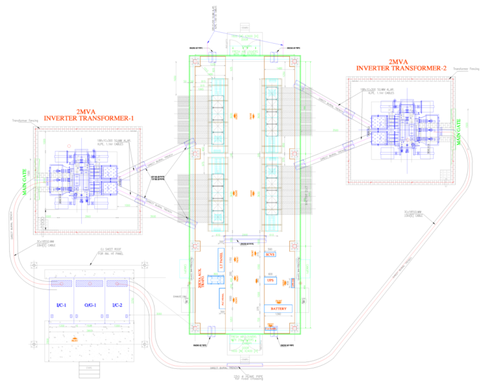
MODULE DISTRIBUTION DETAILS

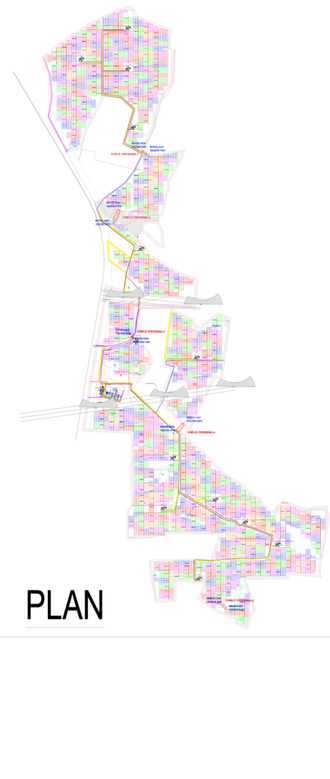
Inverter block	Inverter No.	No. of strings/inverter 310 Wp TS	315 Wp TS	315 Wp JA	320 Wp JA	No. of modules 310 Wp TS	315 Wp TS	315 Wp JA	320 Wp JA	Total no. of strings	SCB1 (12i/p)W	SCB2 (12i/p)W	SCB3 (12i/p)W	SCB4 (12i/p)W	SCB5 (12i/p)W	SCB6 (12i/p)W	SCB7 (12i/p)W	SCB8 (12i/p)W	No. of SCB's	No. of MMS / Station	Inverter loading Capacity in KW	DC to AC ratio
		310	315	315	320																	
MCR2 BLOCK	INV 35			180				3780		180	158760	158760	145530	145530	145530	145530	145530	145530	8	180.00	1190.70	1.19
	INV 36			180				3780		180	158760	158760	145530	145530	145530	145530	145530	145530	8		1190.70	1.19
BLOCK 9	INV 37	186				3906				186	156240	156240	156240	156240	156240	143220	143220	143220	8	372.00	1210.86	1.21
	INV 38	186				3906				186	156240	156240	156240	156240	156240	143220	143220	143220	8		1210.86	1.21
	INV 39	186				3906				186	156240	156240	156240	156240	156240	143220	143220	143220	8		1210.86	1.21
	INV 40	186				3906				186	156240	156240	156240	156240	156240	143220	143220	143220	8		1210.86	1.21
BLOCK 10	INV 41	186				3906				186	156240	156240	156240	156240	156240	143220	143220	143220	8	372.00	1210.86	1.21
	INV 42	186				3906				186	156240	156240	156240	156240	156240	143220	143220	143220	8		1210.86	1.21
	INV 43	186				3906				186	156240	156240	156240	156240	156240	143220	143220	143220	8		1210.86	1.21
	INV 44	186				3906				186	156240	156240	156240	156240	156240	143220	143220	143220	8		1210.86	1.21
BLOCK 11	INV 45	186				3906				186	156240	156240	156240	156240	156240	143220	143220	143220	8	370.00	1210.86	1.21
	INV 46	186				3906				186	156240	156240	156240	156240	156240	143220	143220	143220	8		1210.86	1.21
	INV 47	186				3906				186	156240	156240	156240	156240	156240	143220	143220	143220	8		1210.86	1.21
	INV 48				182				3822	182	161280	161280	161280	147840	147840	147840	147840	147840	8		1223.04	1.22
BLOCK 12	INV 49		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8	356.00	1177.47	1.18
	INV 50		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8		1177.47	1.18
	INV 51		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8		1177.47	1.18
	INV 52		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8		1177.47	1.18
BLOCK 13	INV 53		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8	356.00	1177.47	1.18
	INV 54		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8		1177.47	1.18
	INV 55		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8		1177.47	1.18
	INV 56		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8		1177.47	1.18
BLOCK 14	INV 57		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8	356.00	1177.47	1.18
	INV 58		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8		1177.47	1.18
	INV 59		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8		1177.47	1.18
	INV 60		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8		1177.47	1.18
BLOCK 15	INV 61		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8	356.00	1177.47	1.18
	INV 62		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8		1177.47	1.18
	INV 63		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8		1177.47	1.18
	INV 64		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8		1177.47	1.18
BLOCK 16	INV 65		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8	359.00	1177.47	1.18
	INV 66		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8		1177.47	1.18
	INV 67		178				3738			178	158760	145530	145530	145530	145530	145530	145530	145530	8		1177.47	1.18
	INV 68				184				3864	184	161280	161280	161280	161280	147840	147840	147840	147840	8		1236.48	1.24
BLOCK 17	INV 69			182				3822		182	158760	158760	158760	145530	145530	145530	145530	145530	8	364.00	1203.93	1.20
	INV 70			182				3822		182	158760	158760	158760	145530	145530	145530	145530	145530	8		1203.93	1.20
	INV 71			182				3822		182	158760	158760	158760	145530	145530	145530	145530	145530	8		1203.93	1.20
	INV 72			182				3822		182	158760	158760	158760	145530	145530	145530	145530	145530	8		1203.93	1.20
BLOCK 18	INV 73			182				3822		182	158760	158760	158760	145530	145530	145530	145530	145530	8	364.00	1203.93	1.20
	INV 74			182				3822		182	158760	158760	158760	145530	145530	145530	145530	145530	8		1203.93	1.20
	INV 75			182				3822		182	158760	158760	158760	145530	145530	145530	145530	145530	8		1203.93	1.20
	INV 76			182				3822		182	158760	158760	158760	145530	145530	145530	145530	145530	8		1203.93	1.20
BLOCK 19	INV 77			182				3822		182	158760	158760	158760	145530	145530	145530	145530	145530	8	364.00	1203.93	1.20
	INV 78			182				3822		182	158760	158760	158760	145530	145530	145530	145530	145530	8		1203.93	1.20
	INV 79			182				3822		182	158760	158760	158760	145530	145530	145530	145530	145530	8		1203.93	1.20
	INV 80			182				3822		182	158760	158760	158760	145530	145530	145530	145530	145530	8		1203.93	1.20
BLOCK 20	INV 81				184				3864	184	161280	161280	161280	161280	147840	147840	147840	147840	8	365.00	1236.48	1.24
	INV 82				182				3822	182	161280	161280	161280	147840	147840	147840	147840	147840	8		1223.04	1.22
	INV 83				182				3822	182	161280	161280	161280	147840	147840	147840	147840	147840	8		1223.04	1.22
	INV 84				182				3822	182	161280	161280	161280	147840	147840	147840	147840	147840	8		1223.04	1.22
BLOCK 21	INV 85				182				3822	182	161280	161280	161280	147840	147840	147840	147840	147840	8	364.00	1223.04	1.22
	INV 86				182				3822	182	161280	161280	161280	147840	147840	147840	147840	147840	8		1223.04	1.22
	INV 87				182				3822	182	161280	161280	161280	147840	147840	147840	147840	147840	8		1223.04	1.22
	INV 88				182				3822	182	161280	161280	161280	147840	147840	147840	147840	147840	8		1223.04	1.22
		2046	3382	2544	1824	42966	71022	53424	38304	9796									432	4898	64777.23	

NOTE: SCB NO'S WITHIN THE INVERTER ARE READJUSTED IN THE OVERALL ARRAY LAYOUT TO SUIT THE PLANT TOPOGRAPHY CONDITIONS. EXECUTION TEAM HAS TO REFER THE ARRAY LAYOUT FOR TABLE DISTRIBUTION(SEPARATE COLOR INDICATION) AMONG THE SCB'S.

	START		END	
	X COORDINATES	Y COORDINATES	X COORDINATES	Y COORDINATES
CABLE CROSSING-1	807828.3018	1822689.988	807845.3333	1822679.745
CABLE CROSSING-2	807723.1711	1822425.973	807704.4867	1822383.917
CABLE CROSSING-3	807780.4522	1821856.965	807786.8264	1821849.437
CABLE CROSSING-4	808011.1443	1821460.264	807990.5838	1821431.973
CABLE CROSSING-5	808190.5396	1820648.289	808204.842	1820628.014

TYP. INVERTER CONTROL ROOM(ICR)





PLAN

LEGEND:-

SYMBOL	DESCRIPTION
3.7980 / 21.2110	MMS(2x21) STRUCTURE
	4m WIDE WBM ROAD
	4m WIDE ASPHALT ROAD
	COMPOUND WALL / FENCING
	AC TRENCH
	DC TRENCH
	DRAIN
	STRING COMBINER BOX(SCB)
	INVERTER CONTROL ROOM(ICR)
	MAIN CONTROL ROOM2(MCR)

TECHNOLOGY:-

Inverter	1MW ABB Central Inverter	-54 no's
Inverter Transformer	2.0MVA, 33/2x0.38kV,3Wdg	- 27 no's
MV Switchboard	33kV AIS Switchgear Panel	
Evacuation S/S	220kV, AIS Switchyard	

PLANT DETAILS:-

GEO POSITION	N - 16°28'11.10" E - 77°54'59.67"
SITE AREA	242 ACRES
PV AREA	189 ACRES
INTER ROW	2.7
PITCH	6.5
MODULE ORIENTATION	SOUTH
TILT ANGLE	15 DEG
DC CAPACITY	64.77 MWp
AC CAPACITY	54 MWac
NPR(DC/AC)	1.2
NO.OF MODULES	42,966(Talesun 310Wp) 71,022(Talesun 315Wp) 53,424(JA solar 315Wp) 38,304(JA solar 320Wp)
PV CONNECTORS	9796 - PLUG 9796 - SOCKET
PV BRANCH CONNECTORS	4898 - PLUG 4898 - SOCKET
NO.OF TABLES	4898
TABLE TYPE	2x21, (PORTRAIT)
NO OF INV PER STN.	4 NOS.
NO OF TRANSFORMER PER STATION	2 NOS.

CHECK BOX

AS-BUILT	FOR APPROVAL	INFORMATION ONLY	FOR CONSTRUCTION
√			

No.	DATE	REMARKS	DRN	CKED
R0	26-09-17	ASBUILT	RG	NK

REVISIONS

PROJECT TITLE:
100MW SOLAR POWER PLANT
AT VELTOOR, TELANGANA

CLIENT:
TRANSFORM SUN ENERGY PRIVATE LIMITED

OWNERS CONSULTANT:
TATA CONSULTING ENGINEERS LIMITED
BENGALURU

EPC CONTRACTOR:
STERLING & WILSON
NO.-4A/14, 6TH MAIN, CHIKKA ADUGODI,
NEW EXTENSION THAVAREKERE MAIN ROAD,
BANGALORE - 560 029.
PH : (080) 67178600 - 8609, E-MAIL :
swbirdesign@gmail.com

DRAWING TITLE:
OVERALL ARRAY LAYOUT-PLOT2(MUTHYALAMPALLI)

DRAWING NO : SWLB-SP-TS-100MW-E-DWG-OAL-101C		SCALE	NTS
DRAWN	RG	SHEET NO	1 OF 1
CHECKED	NK	PAPER SIZE	A1
APPROVED	SS	REV NO.	R0
DATE	26-09-17		

S & W
AS BUILT DRAWING