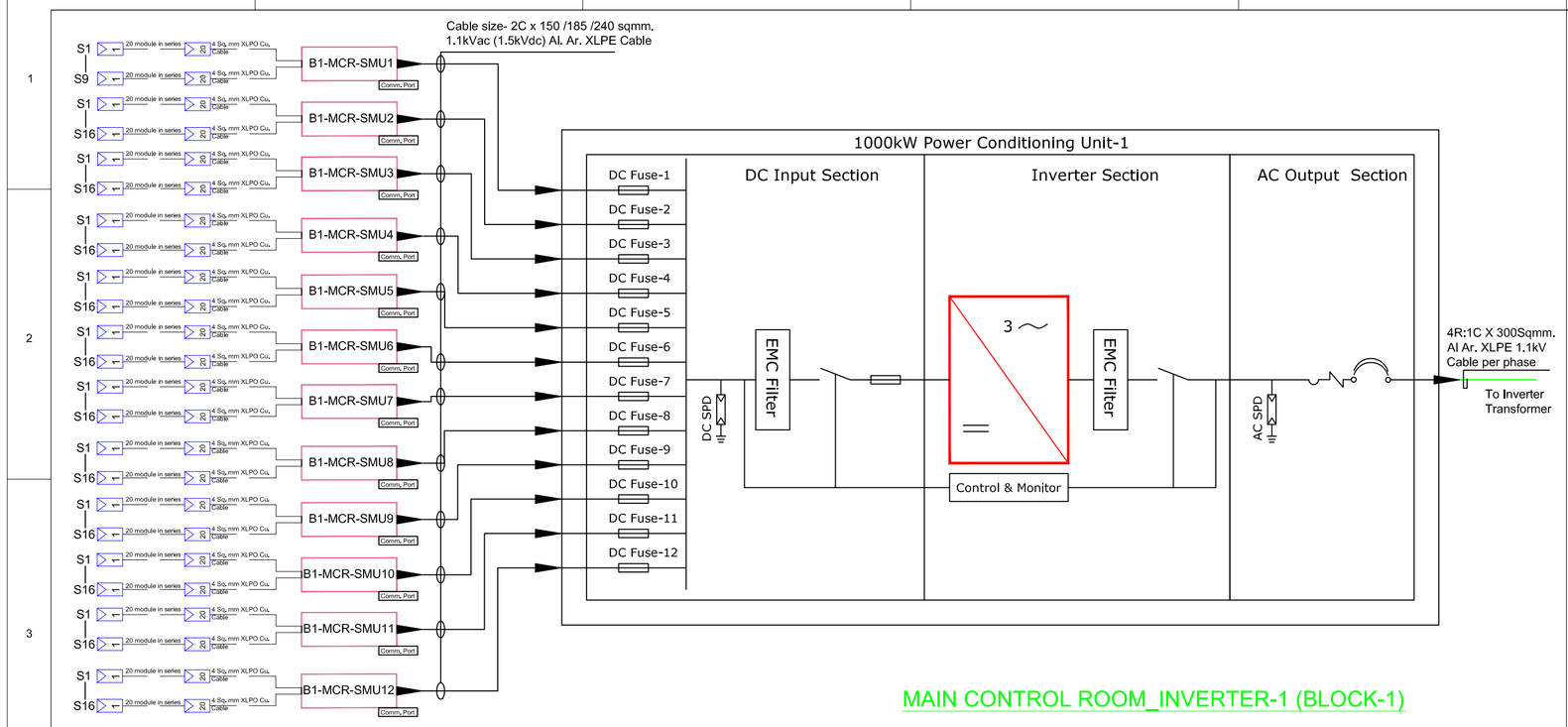
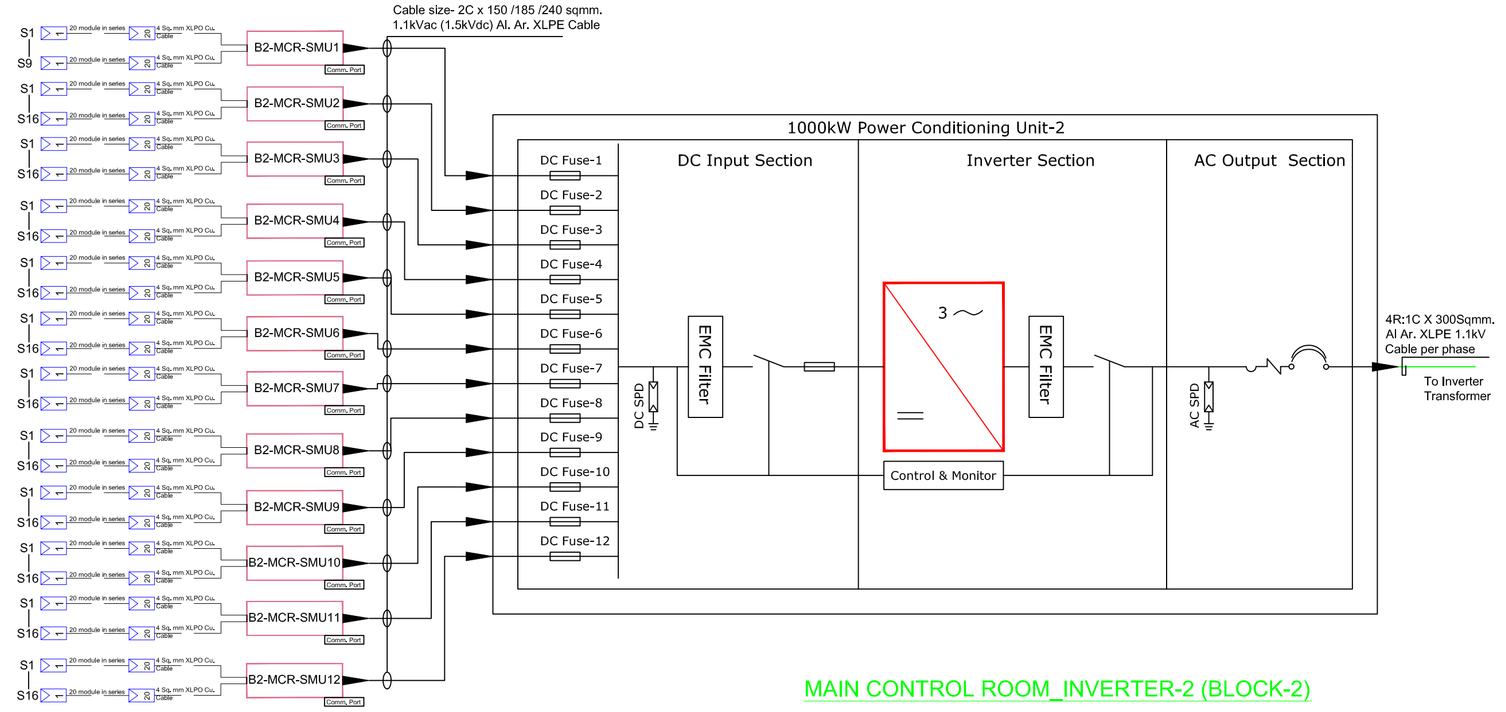
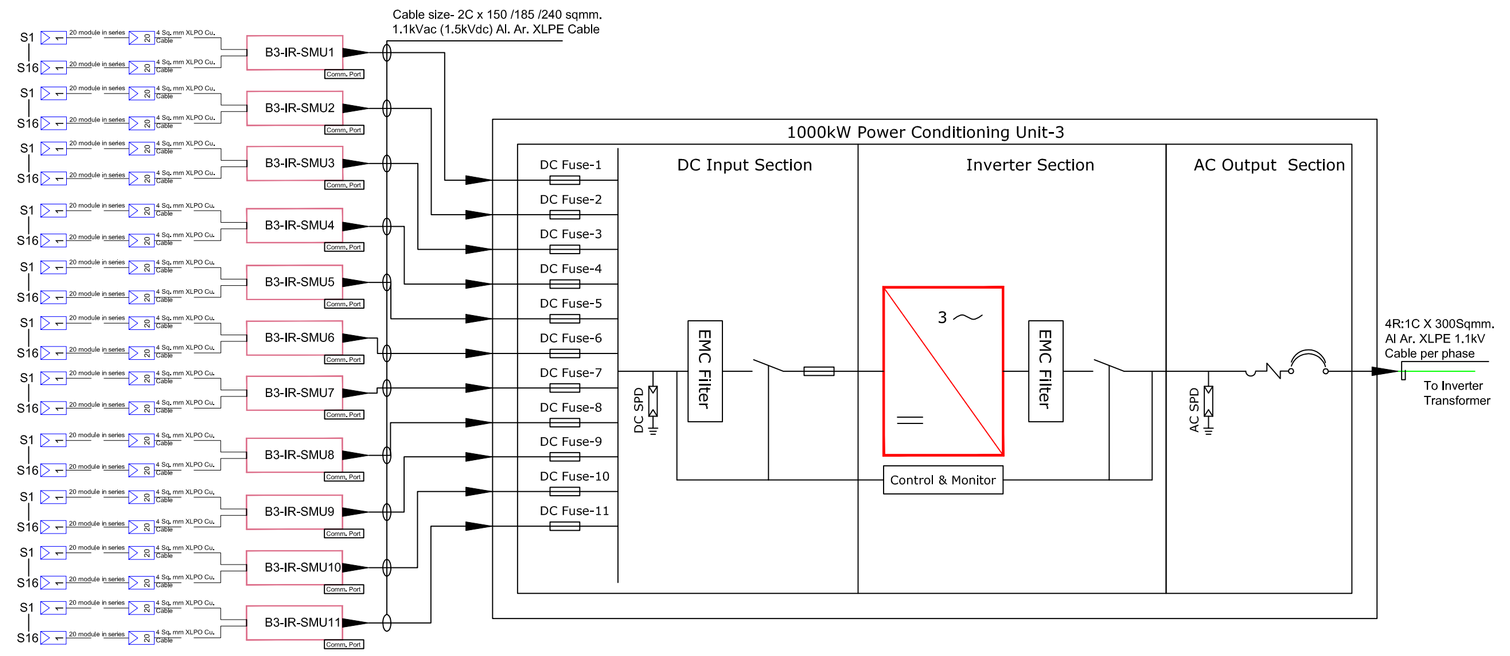


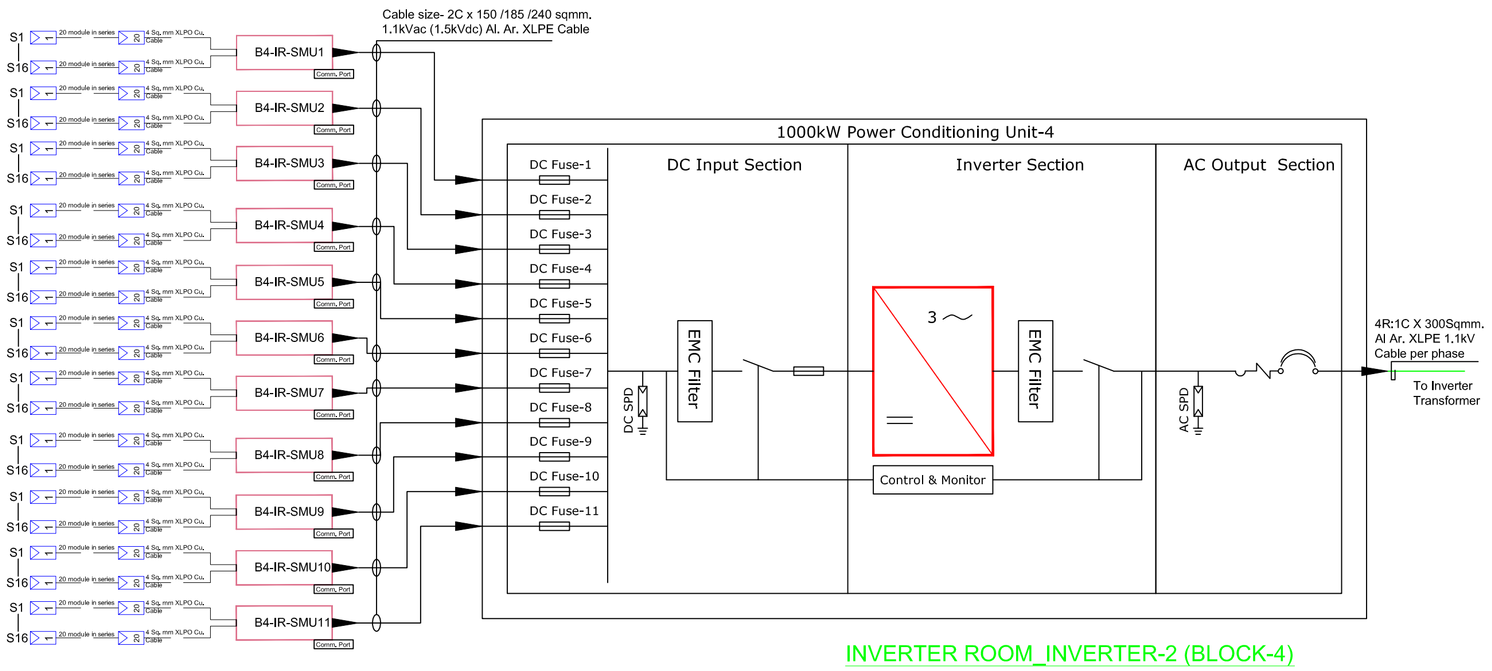
MAIN CONTROL ROOM_INVERTER-1 (BLOCK-1)



MAIN CONTROL ROOM_INVERTER-2 (BLOCK-2)



INVERETR ROOM_INVERTER-1 (BLOCK-3)

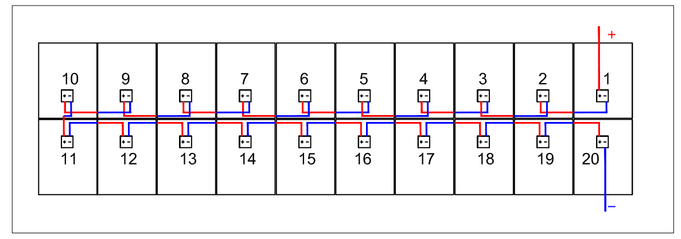


INVERTER ROOM_INVERTER-2 (BLOCK-4)

DC Power Loading of PolyCrystalline Modules

S.No.	Module Wp	Inverter Capacity (AC) kW	No. of Modules in series	No. of Strings per Inverter	16 Input SMU	String Formation	Inverter number	Block number	DC/AC Ratio	Nos. of Modules per Inverter	Nos. of 305Wp Modules	Total DC per Inverter Wp	Total DC per Block Wp	Total DC Capacity MWp	Total AC Capacity MW	Remarks
1	305	1000	20	185	12	16*11+9*1	Inverter-1	Block - 1	1.13	3700	7400	1128500	2257000	4.404200	4.000	
2	305	1000	20	185	12	16*11+9*1	Inverter-2		1.13	3700		1128500				
3	305	1000	20	176	11	16*11	Inverter-1	Block - 2	1.07	3520	7040	1073600	2147200			
4	305	1000	20	176	11	16*11	Inverter-2		1.07	3520		1073600				
				722	**46**						**14440**					

CRFQ no. 1000224612		CORRIGENDUM-1
Clause No.	**Existing clause in the tender**	**Updated clause of the tender**
4.23.4	Only copper conductor cables, PVC insulated with appropriate grade conforming to IS of reputed make shall be used in DC side of plant between interconnection of Modules, Junction box,Inverters, DC panel and other associated equipments.	Cables used between SCB's and Inverters shall be of min. 1.5 kV (DC) grade. These Power cables shall have compacted Aluminium conductor, XLPE insulated, PVC inner-sheathed, Armoured, FRLS PVC outer sheathed conforming to IS:7098.
4.23.6	Total percentage voltage drop of DC cables (SPV modules to inverter) shall belimited to 2%. However, minimum cable size from module to string combinerbox shall be 6 Sqmm.	Total percentage voltage drop of DC cables (SPV modules to inverter) shall be limited to 2%. However, minimum cable size from module to string combiner box shall be 4 Sqmm.. Cables used for inter-connecting SPV modules as well as Modules to SCB's shall conform to the requirements of TUV specification 2 Pfg 1169/08.2007 applicable for DC cable for photovoltaic system.These cables shall meet the fire resistance requirement as per TUV specification 2 Pfg 1169/08.2007 and shall be electron beam cured. The Cables used for (+) ve and (–)ve shall have distinct color identification.

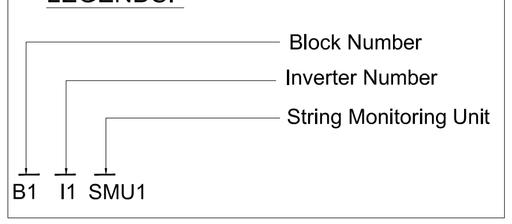


Typical String formation Multicrystalline view

Details for 4.4MWp

Module Capacity	305Wp
No of modules per table	20 nos.
No. of modules in one string	20 nos.
Total no. of modules	14440 nos.
Total no. of Strings	722 nos.
No of Tables	722 nos.
String Mounting Unit	16 in 1 out
No. of SMU	46 nos.
No.of Inverter used.	4 nos.

LEGENDS:-



Cable Size-Module to SMU	1C x 4sqmm, XLPO insulated solar grade copper cable	As per Clause No. 4.23.6 Corrigendum-1, CRFQ no. 1000224612,Page No. 9 of 20,
Cable Size-SMU to Inverter	2C x 150/185/240sqmm, 1.1kVac (1.5kVdc) Al.Ar. XLPE Cable	As per Clause No. 4.23.4 Corrigendum-1, CRFQ no. 1000224612,Page No. 9 of 20,

Legends:-

Symbol	Description
	Solar PV Module
B1-I1-SMU1	String Monitoring Box
Comm. Port	Communication Port
	DC Fuse
	SPD
	ACB

Rev	Details of Revision and Description	Drawn	Design	Checked	Approved	Date
01	REVISED AS PER CLIENT'S COMMENT	P.A	P.A	M.A	M.A	31.07.15
00	RELEASED FOR APPROVAL	P.A	P.A	M.A	M.A	17.07.15

PROJECT	4.4MWp SOLAR POWER PLANT, BINA, MADHYA PRADESH		
OWNER	BHARAT PETROLEUM CORPORATION LIMITED BINA, MADHYA PRADESH		
PMC CONSULTANT	FIRST GREEN CONSULTING PVT LTD DLF PHASE 3, SECTOR 24, GURGAON, HARYANA		
EPC CONTRACTOR	JAKSON ENGINEERS LIMITED (JEL)		
TITLE	DC SINGLE LINE DIAGRAM	Scale	1:1
		Sheet	1 of 1
JEL Dwg. No.	JEL-S013-DRG-EE-002	Date	31.07.15
		Rev	01

A1