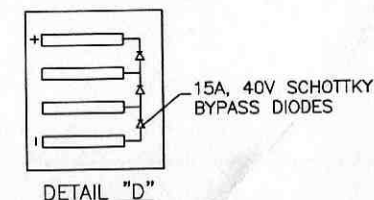
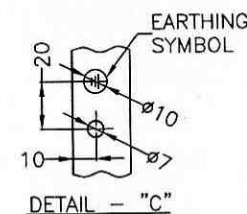
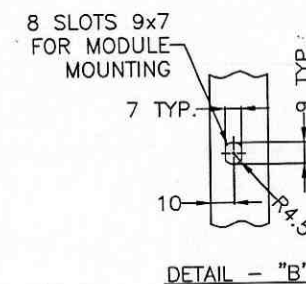
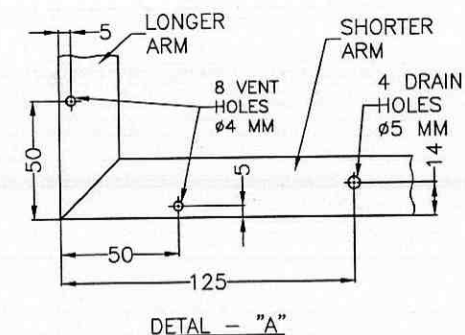
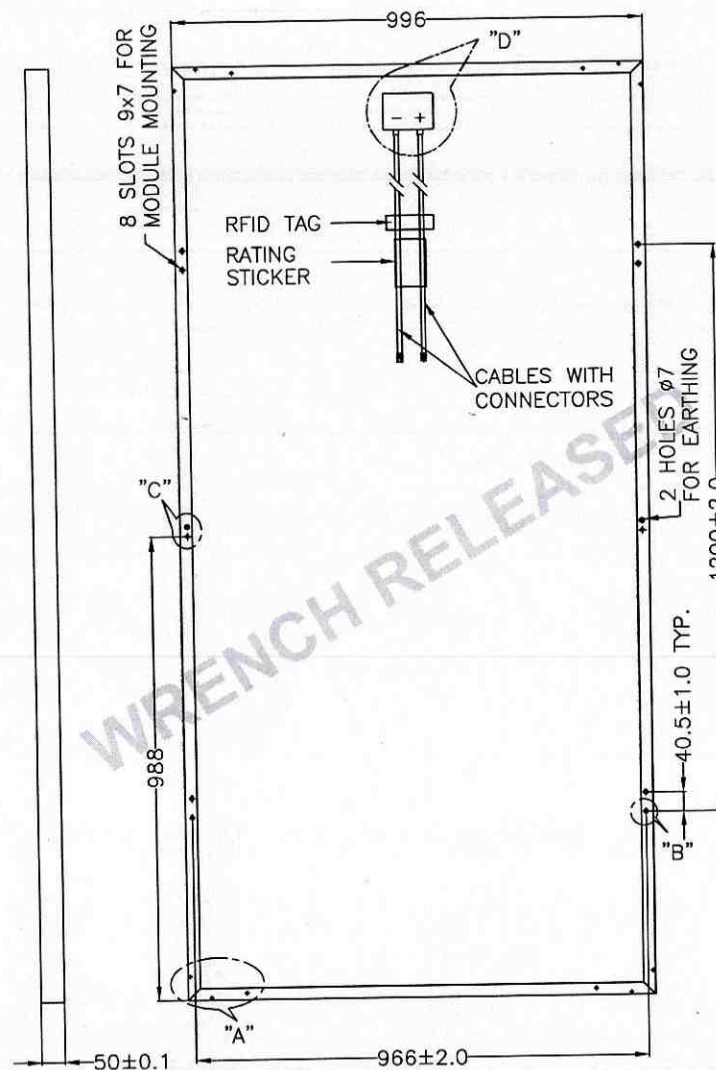
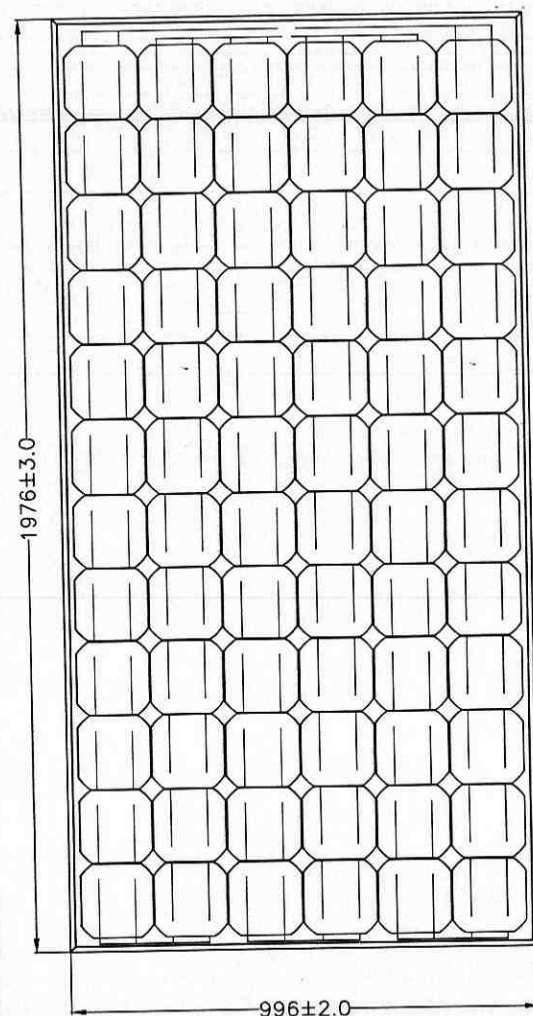


FIRST ANGLE PROJECTION

DRG. No. 3 679 02 00352

(ALL DIMENSIONS ARE IN mm)



REV.	DATE	ALTERED	REV.	DATE	ALTERED	NAME	SIGN	DATE	DEPT.	CODE
		CHECKED			CHECKED					
		APPROVED			APPROVED					
			00							
				FIRST ISSUE		DRAWN	SAN	Sd/-	020911	
						CHECKED	NAR	Sd/-	020911	
						APPROVED	SR	Sd/-	020911	



BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

TITLE: PHOTOVOLTAIC MODULE - L24270
156 mm MONO SOLAR CELLS (Corner Block Type)

M.O. No.

DRG. No.

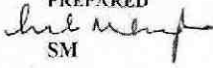
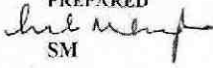
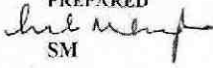
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CARD CODE

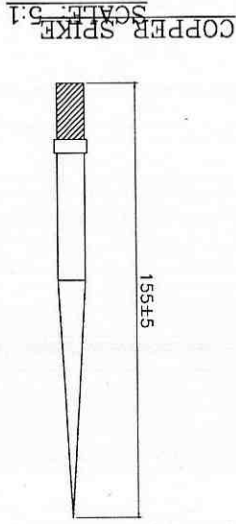
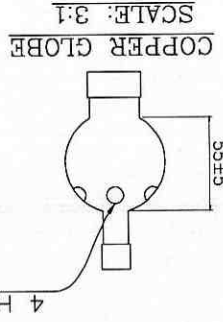
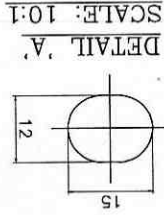
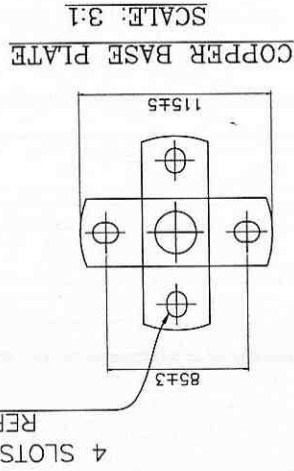
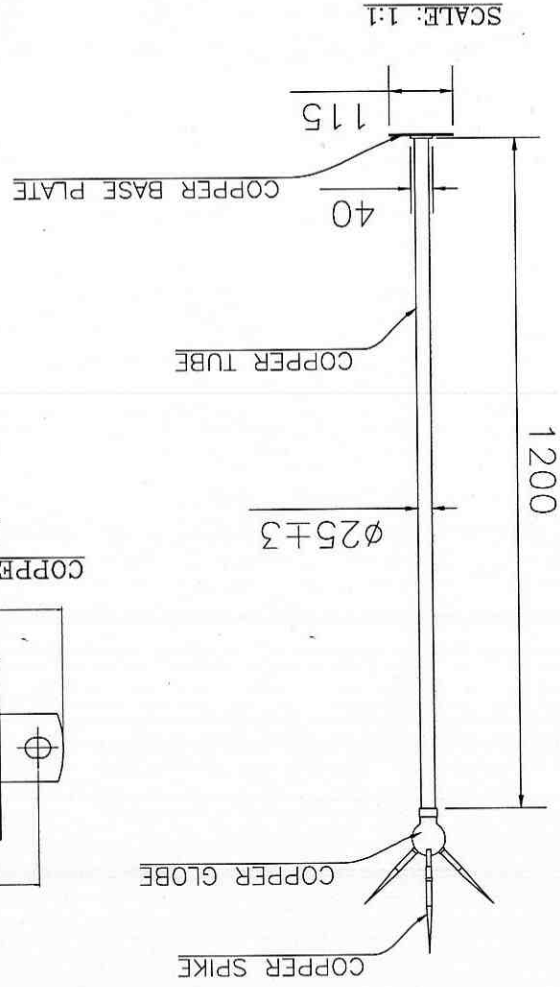
No. OF SHTS 01

SHT No. 01

REV 00

	 A4-10	PRODUCT STANDARD ELECTRONICS DIVISION		CD-4-4001- 128 REV. 00 PAGE 01 OF 01									
COPY RIGHT AND CONFIDENTIAL The information in this document is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.		TECHNICAL SPECIFICATION FOR PV MODULE L24270 (24 V, 300 WATTS) 1. PV MODULE TYPE NO. : L24270 2. CONFIGURATION : SINGLE GLASS LAMINATED TYPE WITH WITH 72 NOS. OF 156-mm MONO CRYSTALLINE SILICON SOLAR CELLS (12*6) IN SERIES CONFIGURATION. 3. OVERALL SIZE : 1966 (±3) * 986 (±2) * 35 (±1) mm 4. WEIGHT : 25 Kg. (Typ.) 5. PV MODULE FRAME MATERIAL : ANODISED ALUMINIUM 6. JUNCTION BOX : IP65 GRADE JUNCTION BOX WITH CABLES AND CONNECTORS 7. RFID Tag : As per JNNSM Guidelines 8. TYPICAL ELECTRICAL CHARACTERISTICS : 8.1 OPEN CIRCUIT VOLTAGE (Voc) : 45.0 V 8.2 SHORT CIRCUIT CURRENT (Isc) : 8.8 A 8.3 VOLTAGE AT PEAK POWER POINT (Vmp) : 37 V 8.4 CURRENT AT PEAK POWER POINT (Imp) : 8.11 A 8.5 PEAK POWER OUTPUT (Pmax.) : 300 W 8.6 CELL EFFICIENCY : 17.4 % 8.7 MODULE EFFICIENCY : 15.5 % 8.8 FILL FACTOR : ≥ 0.70 NOTE : 1. Electrical specifications mentioned above are at Standard Test Conditions of 100 mW/sq. cm solar insolation (AM 1.5) and at 25 deg C temperature. 2. Measurement repeatability of peak power output: ± 3 %											
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	REVISION: (00)	APPROVED BY:  SR											
PREPARED  SM		ISSUED Engg.	DATE 18.03.2015										

DRAWING NO.
3-679-05-00037

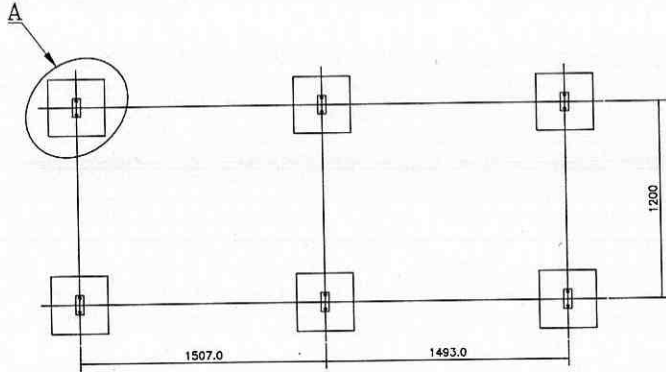


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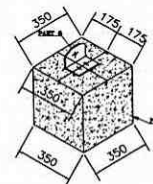
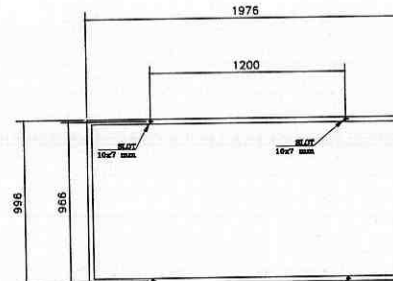
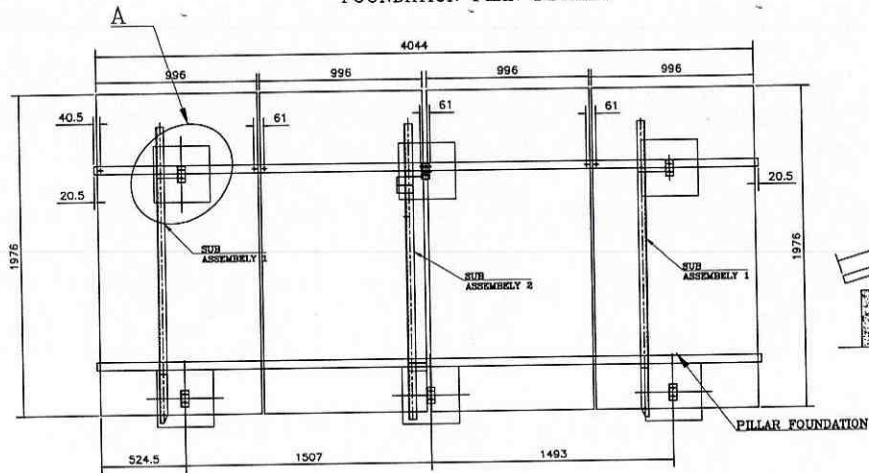
- (1) LIGHTNING ARRESTOR: 25+3MM DIA
1.2 MTRS. (MIN.) LONG COPPER TUBE
WITH COPPER GLOBE ON TOP. SCREW
ON TYPE COPPER SPIKES- 5 NOS. MOUNTED
ON THE COPPER GLOBE.
(2) FOUNDATION BOLT AM10X125 AS PER IS:562
WITH M10 HEX. NUT, M10 SPRING
WASHER & M10 PLAIN WASHER-4
SETS-FINISH: ZINCPLATED TO 12 MICRONS.

[illegible]

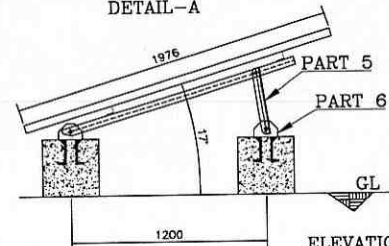
DRAWING NO. 3-679-05-00683



FOUNDATION PLAN DETAILS



DETAIL-A



ELEVATION VIEW OF STRUCTURE

NOTE:- MATERIALS:- PLAIN CEMENT CONCRETE(1:2:4) CEMENT PLASTE(1:6)

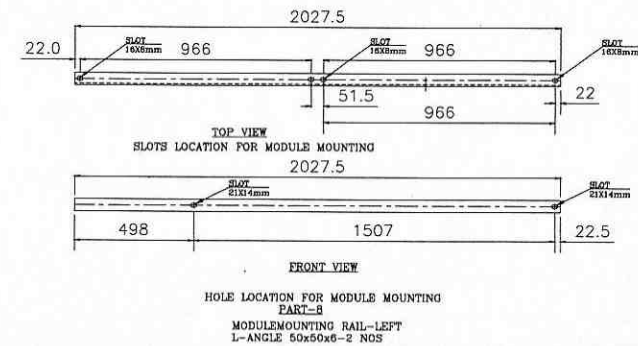
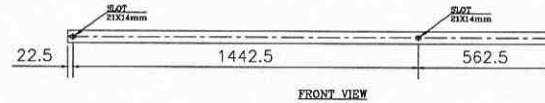
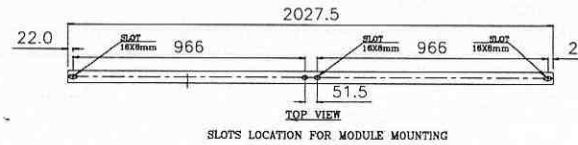
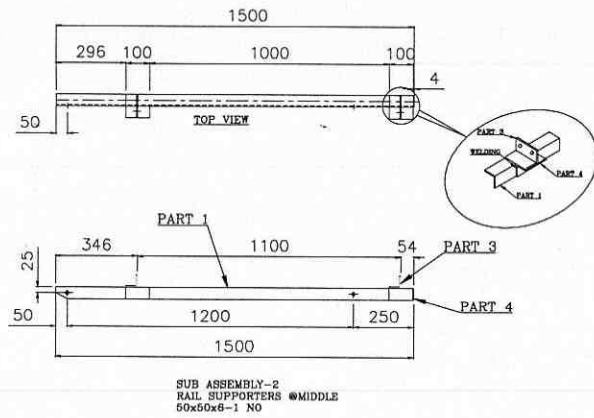
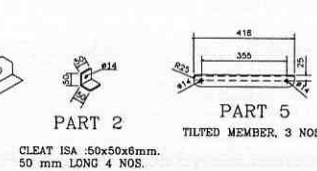
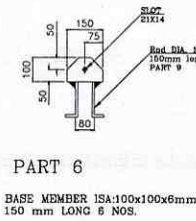
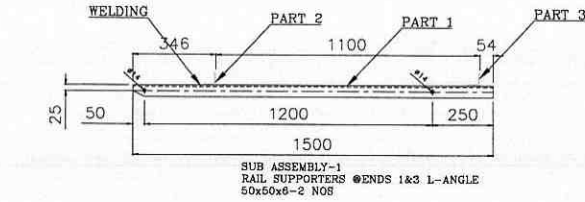
- (1) SLOPING FINISH TO COVER FOUNDATION BOLTS&STRUCTURE MEMBER TO BE DONE AFTER FIXING STRUCTURE ON PEDESTAL
- (2) SLOPING FINISH AT THE PEDESTAL BASE ALSO TO BE DONE.

ALL DIMENSION ARE IN mm

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED

		PROJECT/PRODUCT		SPV SYSTEM	
		NAME	SIGN.	DATE	NO. OF VAR.
DEPTT.	UNTOL.DIM.GR.	SCALE	WEIGHT-KG	REF. TO ASSY.DRG.	IT.NO.
BDC	C/M/F	N.T.S.	—	—	—
TITLE				DRAWING NO.	REV.
MODULE MOUNTING STRUCTURE				3-679-05-00683	00
				SHEET NO.- 01	NO.OF SHEETS- 02
				SIZE- A3	

DRAWING NO. 3-679-05-00683



ALL DIMENSION ARE IN mm

B.O.M. FOR 1X4 MODULE MOUNTING STRUCTURE-9005 REVISED						
S.NO.	ITEM	DESCRIPTION	LENGTH	UNT.	LGTH.	QTY./ST. WT. (KG)
SUB ASSEMBLY 1						
1	PART 1 Rail Supporter ends 1&3	ISA 50X50X6	1500	4.5	2	13.50
2	part 2 Cleat	ISA 50X50X6	50	4.5	4	0.90
SUB ASSEMBLY 2						
3	PART 1 Rail Supporter middle	ISA 50X50X6	1500	4.5	1	6.75
4	part 3 Cleat	ISA 50X50X6	100	4.5	2	0.90
5	part 4 Cleat	ISA 50X50X6	100	4.5	2	0.90
SUB ASSEMBLY 3						
6	part 5 tilt member	ISA 50X50X6	418	4.5	3	5.64
7	part 6 base member	ISA 100X100X5	150	9.2	6	8.28
8	PART 7 Module Mounting rail	ISA 50X50X5	2027.5	4.5	2	18.25
9	PART 8 module mounting rail	ISA 50X50X6	2027.5	4.5	2	18.25
10	part 9 ROD 10 dia	ROD 10 dia	170.0	0.617	12	1.26
TOTAL WEIGHT OF A STRUCTURE (KG)						74.63

NOTE:-

- 1 SET OF HARDWARE INCLUDES 1 BOLT, 1 NUT, 1 PLAIN WASHER AND 1 SPRING WASHER
- STEEL PROPERTY IS AS PER IS:2062 GRADE-E250 C
- GENERAL TOLERANCE ARE ACCORDING WITH ISO:2768 (OR EQUIVALENT IS:7215)
- SPECIFICATION FOR CHANNEL ANGLE AND 1-SECTION AS PER IS:808
- SPECIFICATION FOR HOT DIP COATING ON STRUCTURAL STEEL MIN. 90MICRONS
- SPECIFICATION FOR WELDING-WELD THICKNESS SHOULD BE MINIMUM 5mm

PROJECT/PRODUCT SPV SYSTEM		NAME		SIGN.	DATE	NO. OF VAR.
DRN.						
CKD.						
APPD.						
DEPT. BDC	UNTOL.DIM.GR. C/M/F	SCALE N.T.S.	WEIGHT-KG —	REF.TO ASSY.DRG. —	IT.NO. —	NO. OF ITEM
TITLE MODULE MOUNTING STRUCTURE SPV SYSTEM				DRAWING NO. 3-679-05-00683		REV. 00
SHEET NO.- 02		NO.OF SHEETS- 02		SIZE- A3		

FIRST ANGLE PROJECTION

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