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NOTE:

1. ALL DIMENSIONS ARE IN MM. UNLESS WE SPECIFIED.
2. ARRAY SIZE = 5PX1+4PX1
3. MODULE SIZE 1970X990X35 MM OR 1993X1006X35.
4. MODULE MOUNTING POSITION 957X1200 OR 973X1200
5. STRUCTURE STEEL HOT ROLLED PLATE SHALL BE AS CONFIRM TO IS 2062 E250-GRADE A.
6. COLD FORMED STEEL SHALL CONFIRM TO IS 1079.
7. CIRCULAR HOLLOW STEEL'S YST 250 MINIMUM.
8. SEASONAL MANUAL TILT 25° & 15° OR GENERAL TILT 21° IS MANUAL ADJUSTABLE AS REQUIRED.
9. HOT DIP GALVANIZATION 80 MICRON TO ALL STRUCTURE MEMBER.ALL STRUCTURE PARTS SHOULD BE HOT DIP GALVANIZATION ACCORDING TO IS 4759
10. FOUNDATION HARDWARE SHOULD BE AS PER IS 5624.
11. ALL STRUCTURE PARTS SHOULD BE HOT DIP GALVANIZED ACCORDING TO IS 4759
12. WELDING SHOULD BE DONE AS PER IS - 822 & GRADE OF WELDING WIRE SHOULD BE (ER70S-6)
13. ALL FASTENER NUT-BOLT MATERIAL SHOULD BE 8.8 GRADE WITH HDG OR BLACK ZINC COATED.
14. STRUCTURE WITHSTAND UNDER 150 KPH AS PER CLAUSE IS 87.5-2015-III.
15. GRADE OF CONCRETE -M25

BILL OF MATERIAL						
ITEM NO.	DESCRIPTION	MATERIAL	LENGTH (MM)	QTY	TOTAL WEIGHT (KG)	
1	Column Post (Ø114.3 - 4.5mm)	IS 2062 E-250 HDGI-Avg 80 Mikron	2108	1	26.77	
	Top plate (Ø180x10 mm)	IS 2062 E-250 HDGI-Avg 80 Mikron	50	6	0.47	
	Spigot Rod (Ø16mm)	IS 2062 E-250 HDGI-Avg 80 Mikron	1150	4	2.71	
	RCC Cage (Ø10mm)	IS 2062 E-250 HDGI-Avg 80 Mikron	-	1	0.29	
2	Center Pin	IS 2062 E-250 HDGI-Avg 80 Mikron	-	2	1.51	
3	Bracing Joint	IS 2062 E-250 HDGI-Avg 80 Mikron	1000	1	2.56	
4	N-S Bracing Front Bottom (Ø33.7 - 2.6mm )	IS 2062 E-250 HDGI-Avg 80 Mikron	1000	1		
	Plate Ø40x3 mm thk.		1	1		
	Plate 50x40x3 mm thk		1	1		
5	N-S Bracing Rear Bottom (Ø33.7 - 2.6mm )	IS 2062 E-250 HDGI-Avg 80 Mikron	1000	1	2.56	
	Plate Ø40x3 mm thk.		1	1		
	Plate 50x40x3 mm thk		1	1		
6	Middle Rafter (Box Pipe- 80x40x2 mm )	IS 1079 E-250 HDGI-Avg 80 Mikron	3400	1	12.38	
7	N-S Bracing Cleat	IS 1079 E-250 HDGI-Avg 80 Mikron	3400	2	0.33	
8	End Rafter (Box Pipe- 80x40x2 mm )	IS 1079 E-250 HDGI-Avg 80 Mikron	3400	2	24.75	
9	E-W Bracing Cleat	IS 1079 E-250 HDGI-Avg 80 Mikron	-	2	0.42	
10	E-W Bracing (Ø33.7 - 2.6mm )	IS 1079 E-250 HDGI-Avg 80 Mikron	1945	2	8.40	
	Plate Ø40x3 mm thk.		1	1		
	Plate 50x40x3 mm thk		1	1		
11	Purlin Cleat (80x80x3mm with Rib)	IS 1079 E-250 HDGI-Avg 80 Mikron	-	16	4.00	
12	Purlin 1 (Box Pipe- 50x50x2 mm )	IS 1079 E-250 HDGI-Avg 80 Mikron	5177	2	31.17	
13	Purlin 2 (Box Pipe- 50x50x2 mm )	IS 1079 E-250 HDGI-Avg 80 Mikron	4361	2	26.25	
14	N-S Bracing Rear Top (Ø26.9 - 2.3mm )	IS 2062 E-250 HDGI-Avg 80 Mikron	1000	1	1.73	
	Plate Ø40x3 mm thk.		1	1		
	Plate 50x40x3 mm thk		1	1		
15	N-S Bracing Front Top (Ø26.9 - 2.3mm )	IS 2062 E-250 HDGI-Avg 80 Mikron	500	1	0.87	
	Plate Ø40x3 mm thk.		1	1		
	Plate 50x40x3 mm thk		1	1		
16	Top middle support	IS 2062 E-250 HDGI-Avg 80 Mikron	-	1	1.70	
	Top Support Mid Plate	IS 2062 E-250 HDGI-Avg 80 Mikron	-	2	3.96	
	Base Disc (Ø180 - 10 mm)	IS 2062 E-250 HDGI-Avg 80 Mikron	-	4	0.57	
	Top Support Rib (Plate- 100x40x50x5 mm)	IS 2062 E-250 HDGI-Avg 80 Mikron	-	16	0.00	
17	Top mid plate flange(180x100x8mm)	IS 2062 E-250 HDGI-Avg 80 Mikron	-	1		
18	Concrete Pile	M25	-	-	-	

REV	DATE	DESCRIPTION	NPT	DGB	KHR
R5	2/3/22				

CLIENT: **EMMVEE** EMMVEE PHOTOVOLTAIC POWER PVT. LTD.

EPC CONTRACTOR:

DESIGN BY: **mechworks** ENGINEERING CONSULTANCY

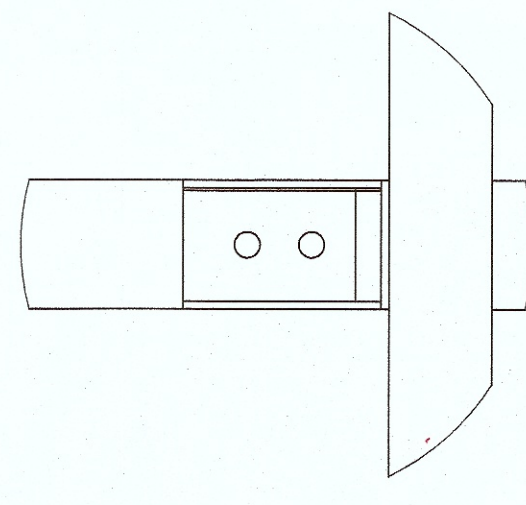
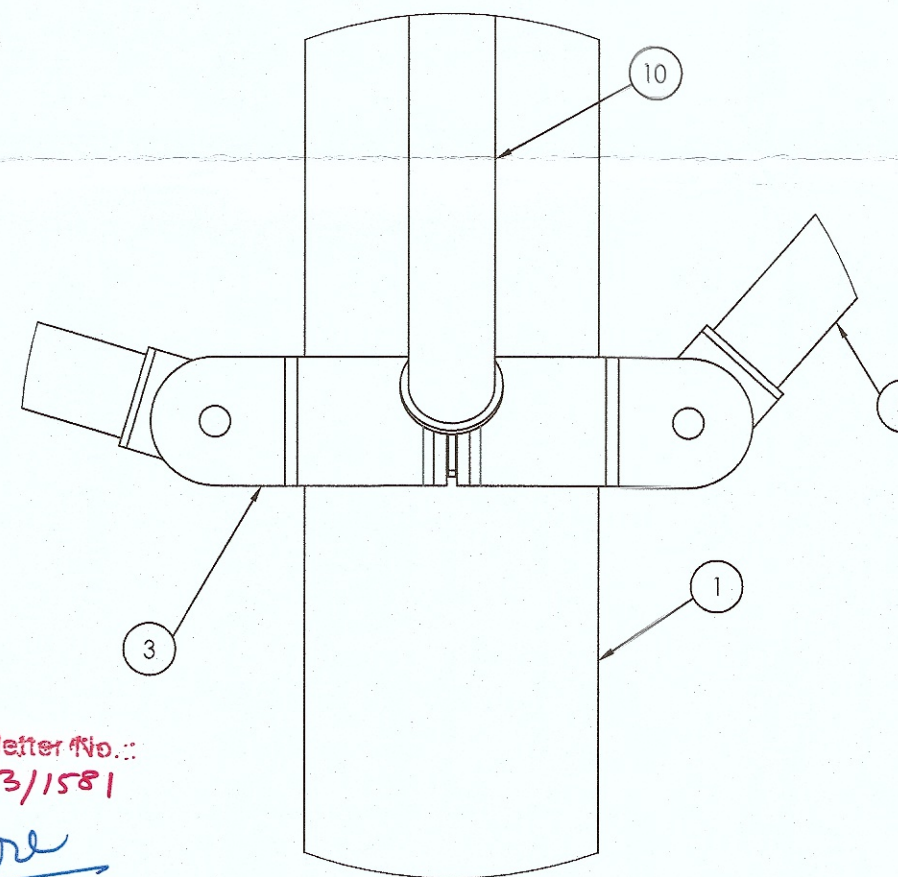
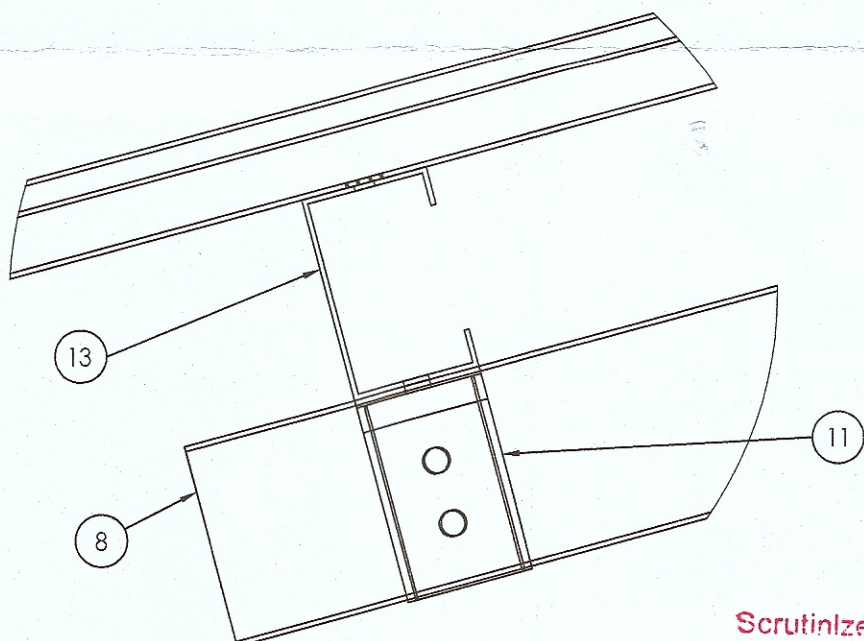
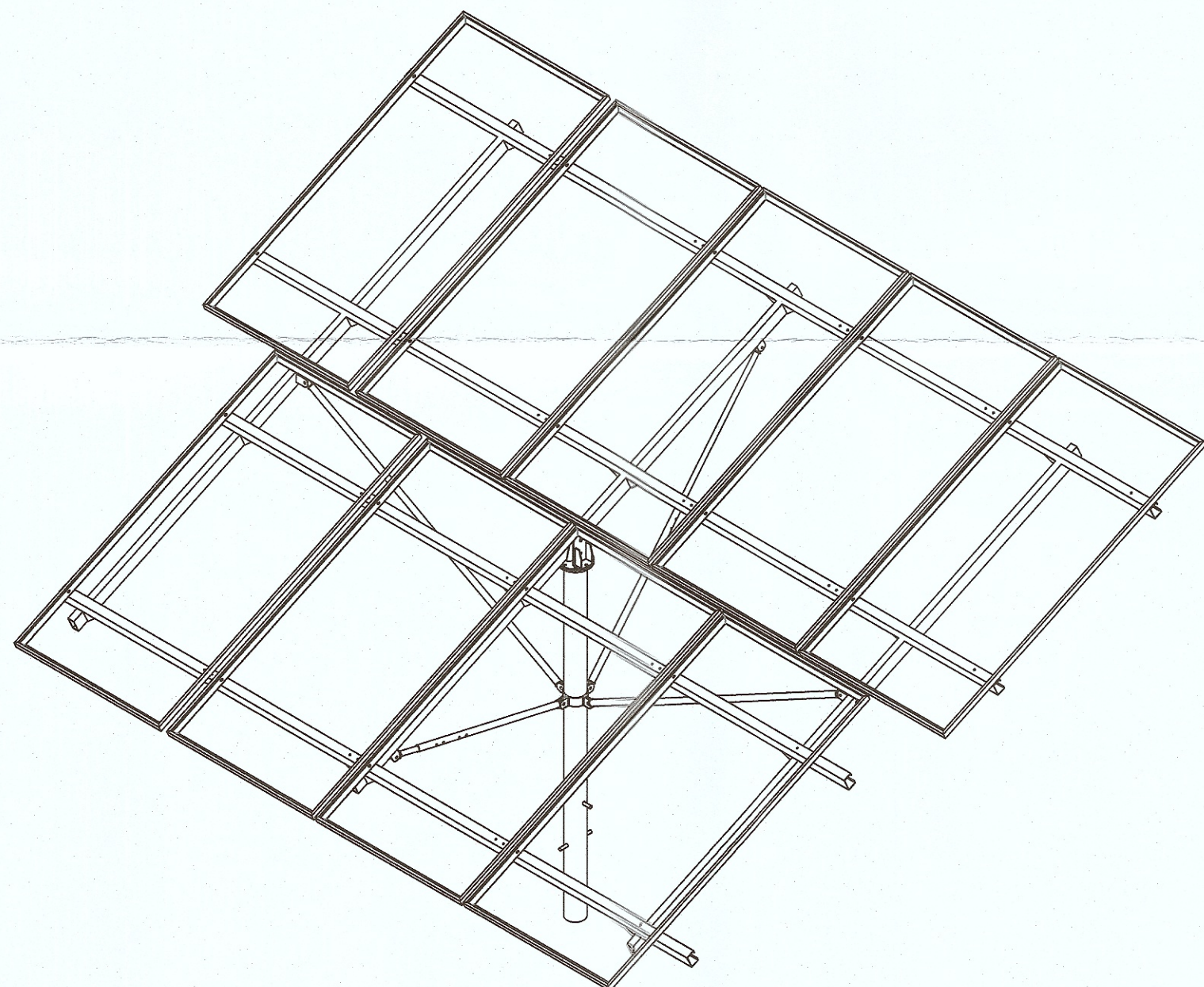
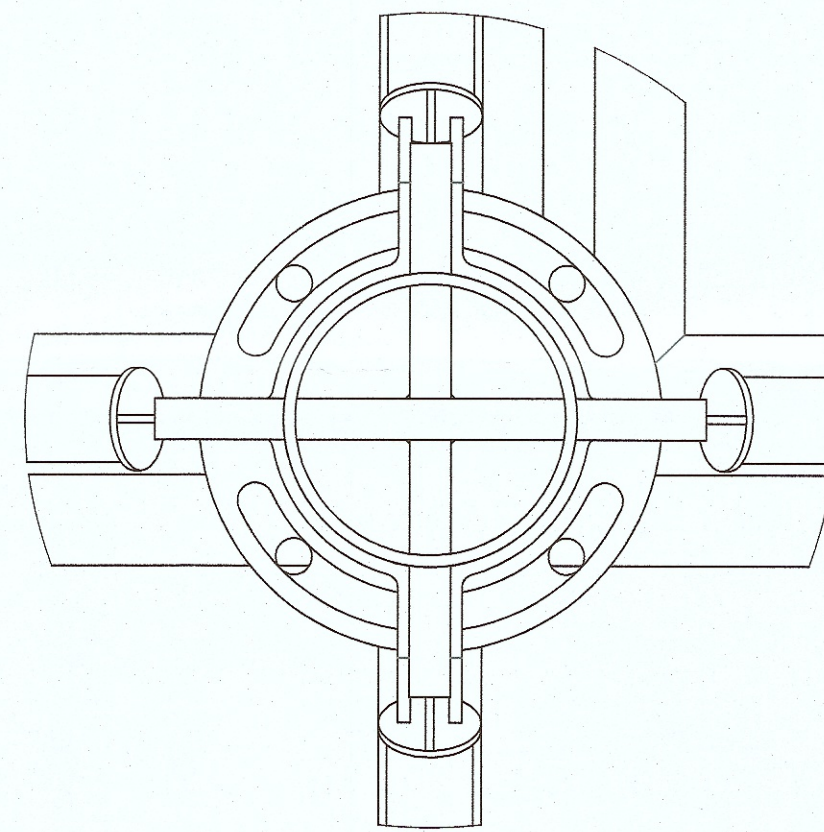
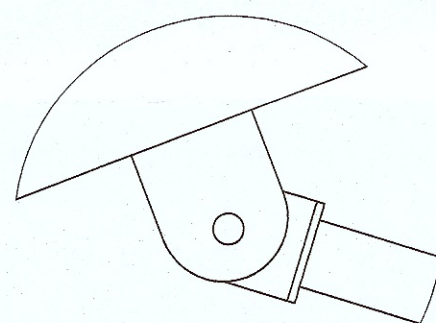
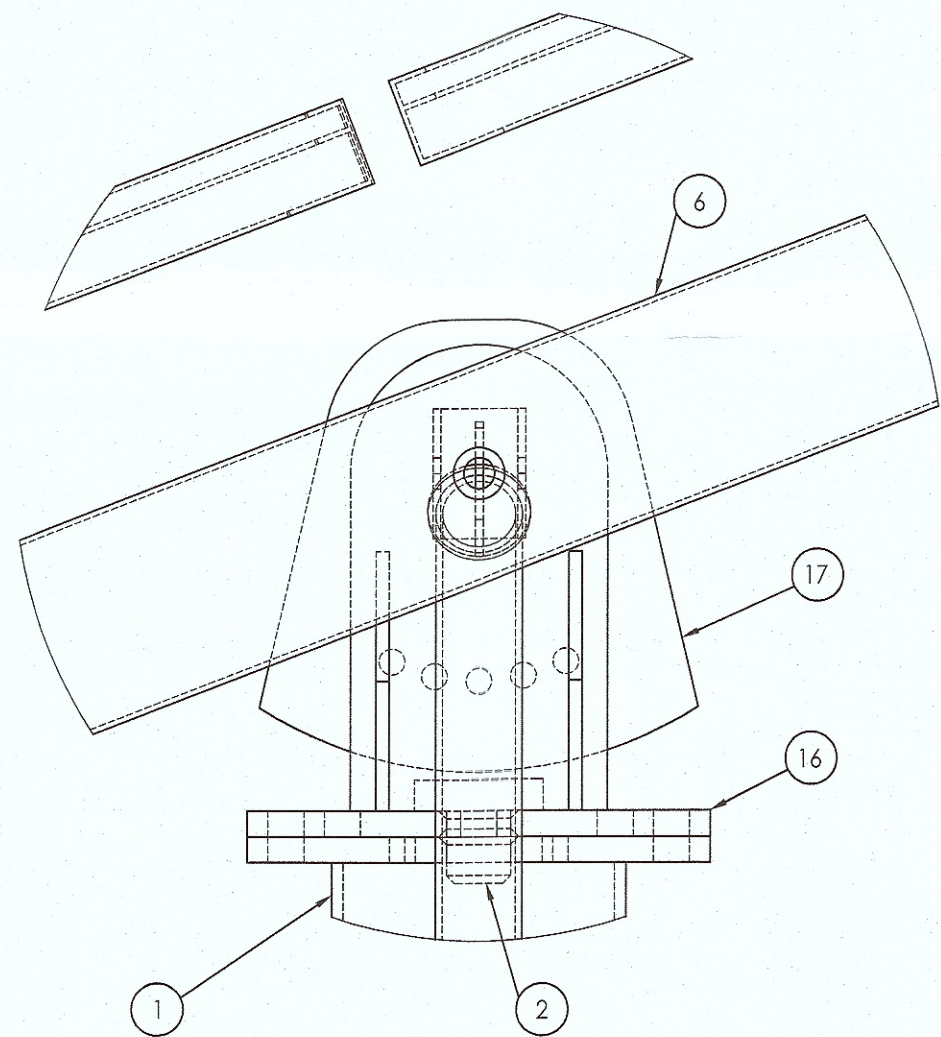
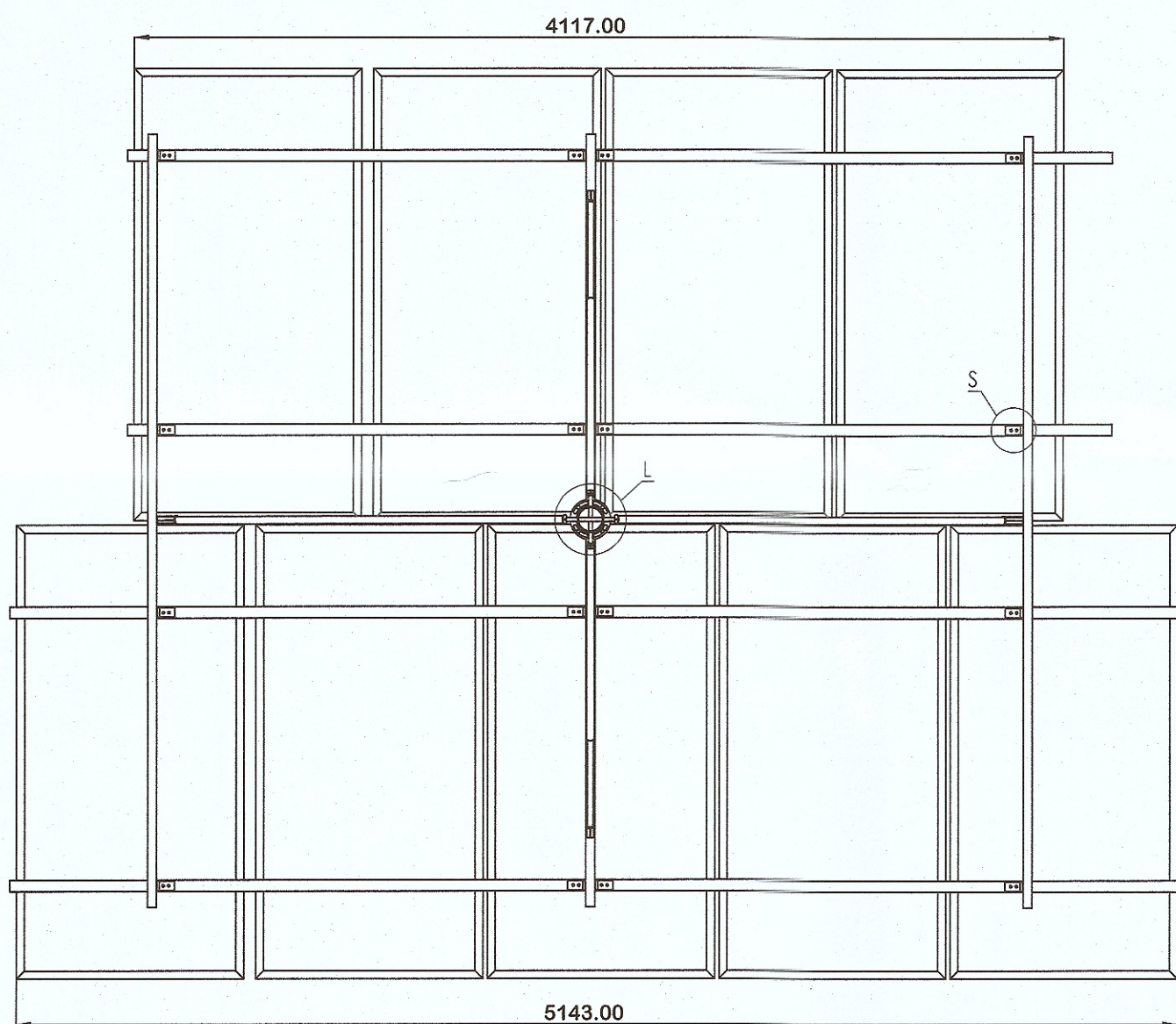
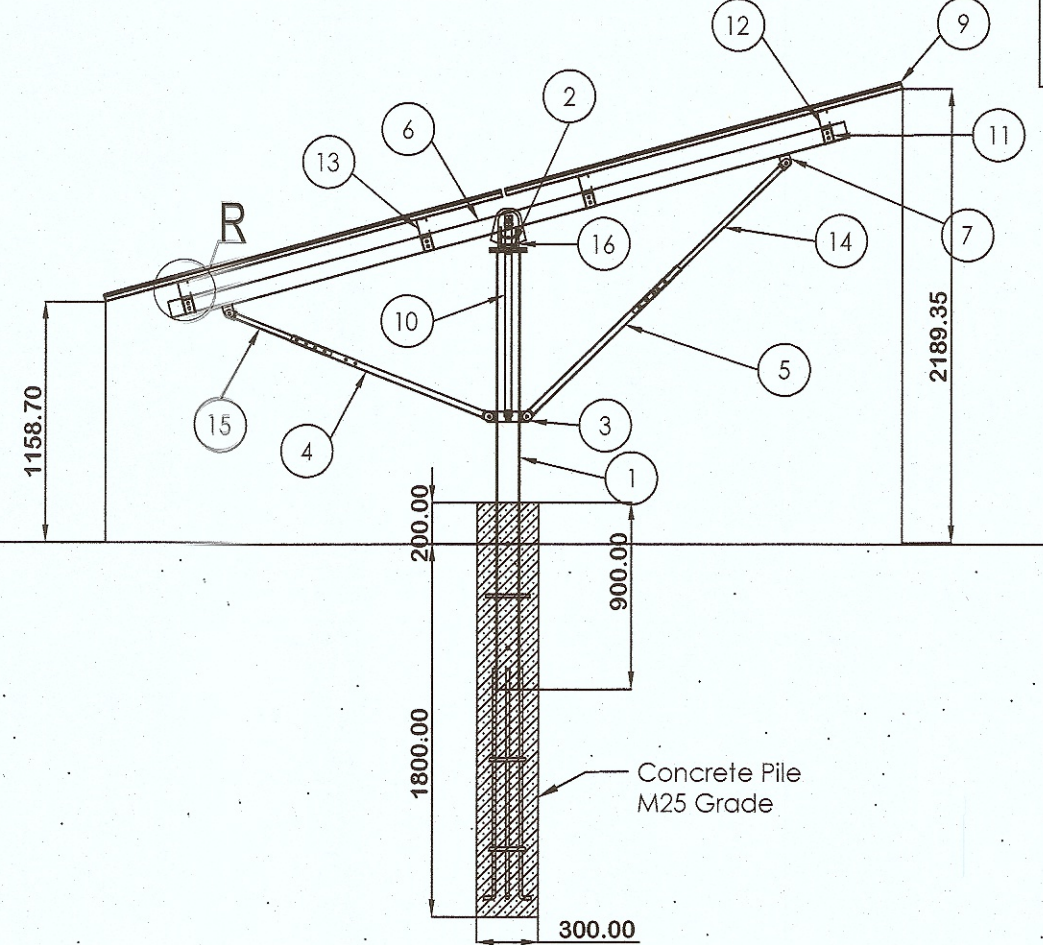
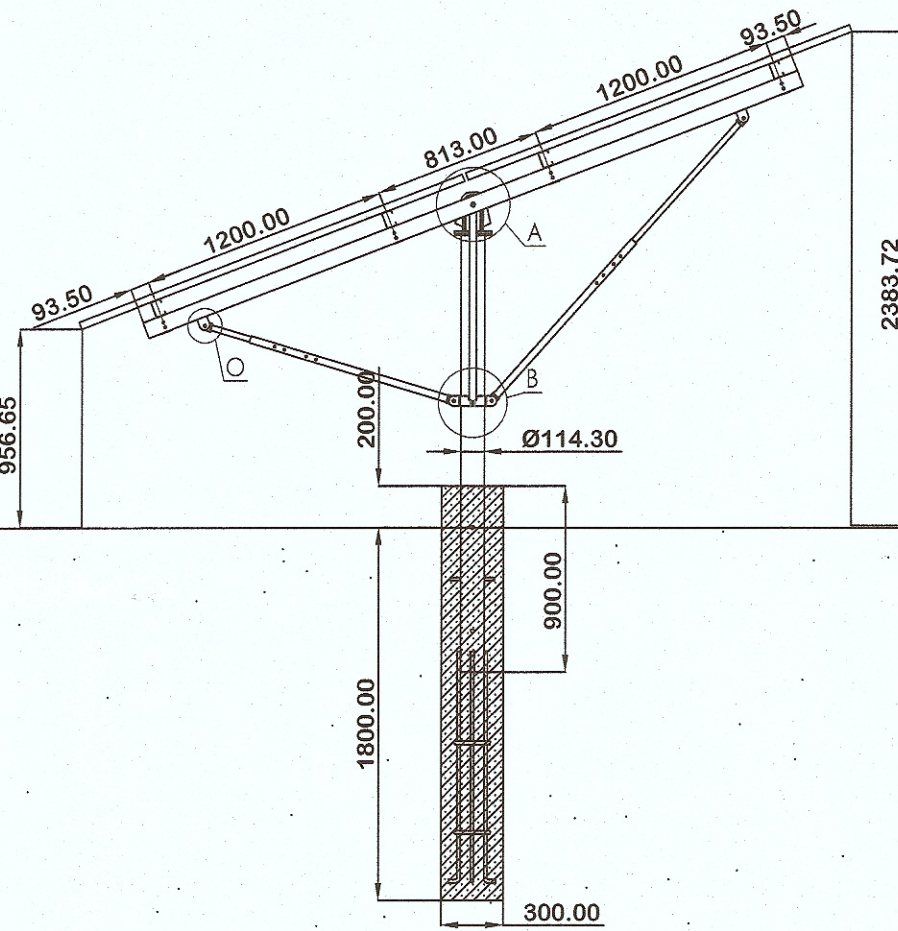
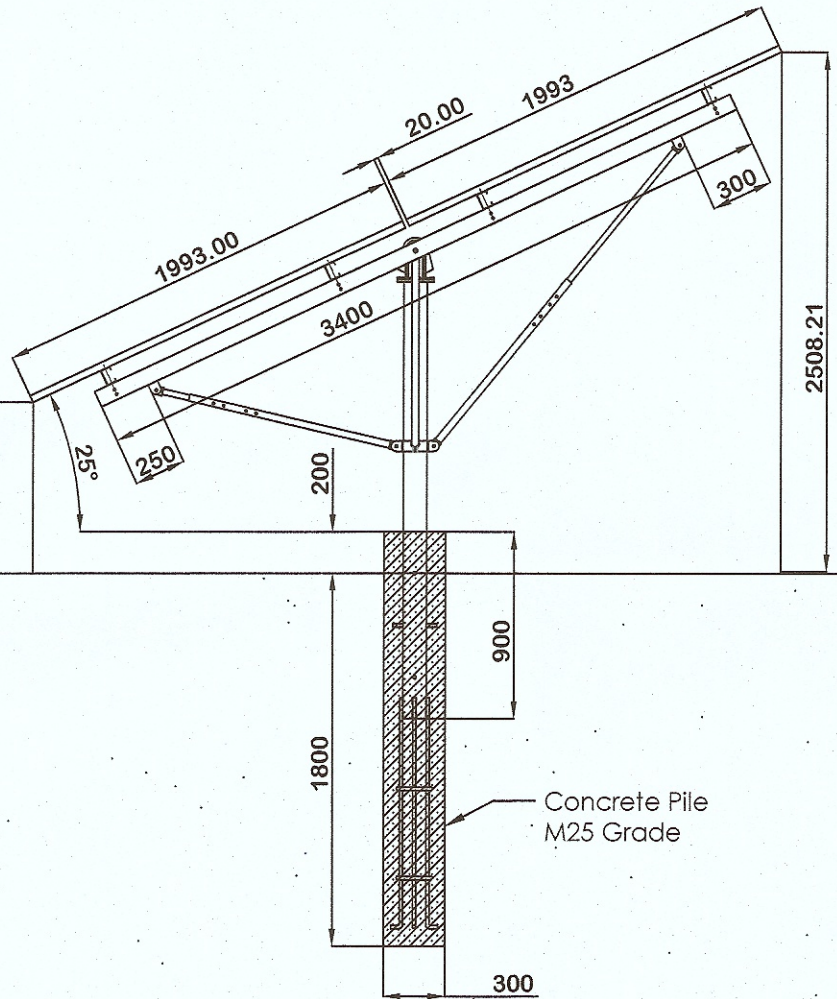
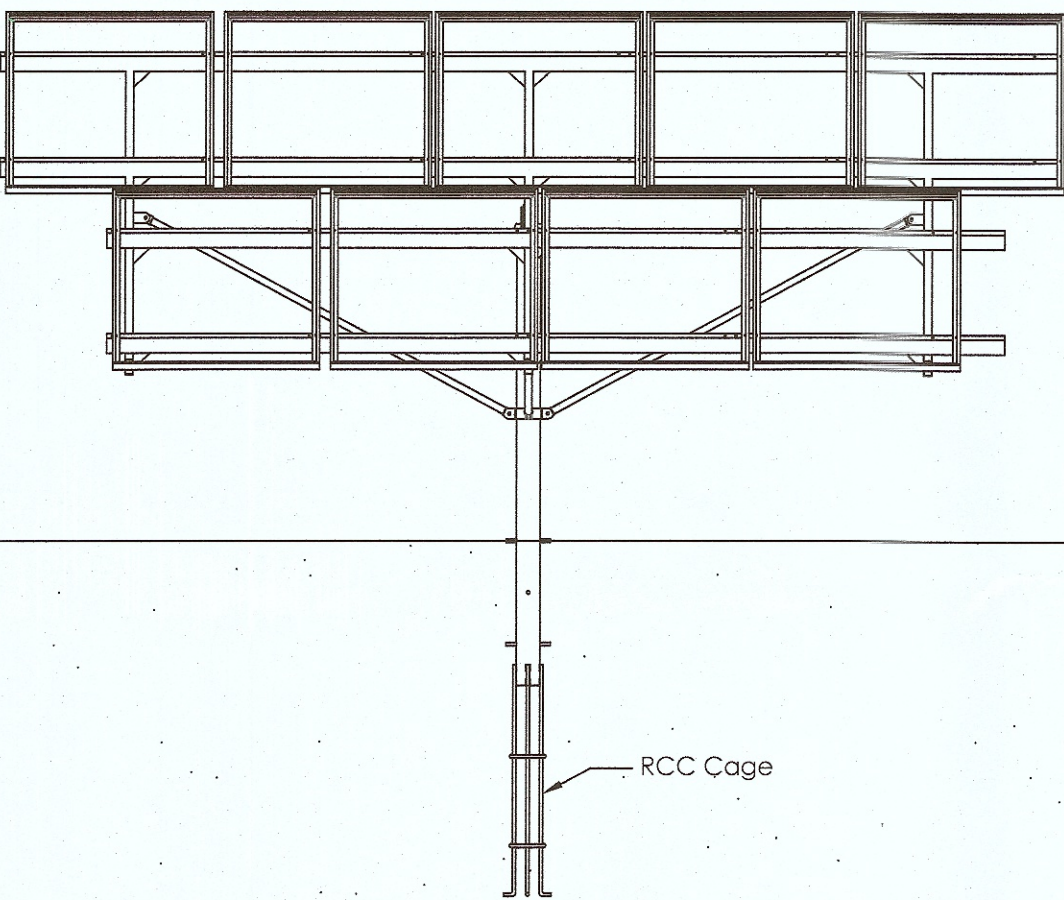
DRAWING NO.: EMMVEE-MMS-001-18

DRAWING NAME: GENERAL ARRANGEMENT OF 3 HP WATER PUMP

PROJECT TITLE: 3HP WATER PUMP SOLAR STRCUTURE

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