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NOTE:

1. ALL DIMENSIONS ARE IN MM, UNLESS WE SPECIFIED.
2. ARRAY SIZE = 5PX1+4PX1
3. MODULE SIZE 1700X990X35 MM OR 1993X1006X35.
4. MODULE MOUNTING POSITION 957X1200 OR 973X1200
5. STRUCTURE STEEL HOT ROLLED PLATE SHALL BE AS CONFORM TO IS 2062 E250-GRADE A.
6. COLD FORMED STEEL SHALL CONFORM 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 875-2015-III.
15. GRADE OF CONCRETE - M25

Scrutinized & Vetted vide letter No. :
AGT- 377 /CE- 5993/1581
Dated : 7/4/22

Dr. Abhay Tawale,
Assistant Professor
Dept. of Civil Engg.
Visvesvaraya National Institute of Technology
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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 Micron	2108	1	26.77	
	Top plate (Ø180x10 mm)	IS 2062 E-250 HDGI-Avg 80 Micron		1	0.47	
	Splitter Rod (Ø16mm)	IS 2062 E-250 HDGI-Avg 80 Micron	50	1	0.71	
	RCC Cage (Ø10mm)	IS 2062 E-250 HDGI-Avg 80 Micron	1150	4	21.71	
	Center Pin	IS 2062 E-250 HDGI-Avg 80 Micron	-	1	0.29	
	Bracing Joint	IS 2062 E-250 HDGI-Avg 80 Micron	-	2	1.51	
4	N-S Bracing Front Bottom (Ø33.7 - 2.6mm)	IS 2062 E-250 HDGI-Avg 80 Micron	1000	1	2.56	
	Plate Ø40x3 mm thk.			1		
	Plate 50x40x3 mm thk.			1		
	N-S Bracing Rear Bottom (Ø33.7 - 2.6mm)	IS 2062 E-250 HDGI-Avg 80 Micron	1000	1	2.56	
	Plate Ø40x3 mm thk.			1		
	Plate 50x40x3 mm thk.			1		
6	Middle Rafter (Box Pipe- Ø80x40x2 mm)	IS 1079 E-250 HDGI-Avg 80 Micron	3400	1	12.38	
	N-S Bracing Cleat	IS 1079 E-250 HDGI-Avg 80 Micron	-	2	0.33	
	End Rafter (Box Pipe- Ø80x40x2 mm)	IS 1079 E-250 HDGI-Avg 80 Micron	3400	2	24.75	
	E-W Bracing Cleat	IS 1079 E-250 HDGI-Avg 80 Micron	-	2	0.42	
	E-W Bracing (Ø33.7 - 2.6mm)	IS 1079 E-250 HDGI-Avg 80 Micron	1945	2	8.40	
	Plate Ø40x3 mm thk.			1		
	Plate 50x40x3 mm thk.			1		
11	Purlin Cleat (Ø80x80x3mm with Rib)	IS 1079 E-250 HDGI-Avg 80 Micron	-	16	4.00	
	Purlin 1 (Box Pipe- 50x50x2 mm)	IS 1079 E-250 HDGI-Avg 80 Micron	5177	2	31.17	
	Purlin 2 (Box Pipe- 50x50x2 mm)	IS 2062 E-250 HDGI-Avg 80 Micron	4361	2	26.25	
	N-S Bracing Rear Top (Ø26.9 - 2.3mm)	IS 2062 E-250 HDGI-Avg 80 Micron	1000	1	1.73	
	Plate Ø40x3 mm thk.			1		
	Plate 50x40x3 mm thk.			1		
15	N-S Bracing Front Top (Ø26.9 - 2.3mm)	IS 2062 E-250 HDGI-Avg 80 Micron	500	1	0.87	
	Plate Ø40x3 mm thk.			1		
	Plate 50x40x3 mm thk.			1		
16	Top middle support					
	Top Support mid Plate	IS 2062 E-250 HDGI-Avg 80 Micron	-	1	1.70	
	Base Disc (Ø180 - 10mm)	IS 2062 E-250 HDGI-Avg 80 Micron	-	2	3.96	
	Top Support Rib (Plate -100x40x50x5 mm)	IS 2062 E-250 HDGI-Avg 80 Micron	-	4	0.57	
17	Top mid plate flange(180x100x8mm)	IS 2062 E-250 HDGI-Avg 80 Micron		16	0.00	
18	Concrete Pad	M25				
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
R5	2/2/22					
REV.	DATE	DESCRIPTION	DNPT	DGB	KHR	
			BY	CHECKED	APPROVED	

CLIENT:  EMMVEE PHOTOVOLTAIC
POWER PVT. LTD.

EPC CONTRACTOR:	
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DESIGN BY: **MECHWORKS**
ENGINEERING CONSULTANCY

DRAWING NO.:
EMMVEE-MMS-001-01 TO EMMVEE-MMS-001-17

DRAWING NAME:
PART DRAWINGS OF 3 HP WATER PUMP

PROJECT TITLE:
3HP WATER PUMP SOLAR STRCUTURE

RELEASED FOR

☐ PRELIMINARY ☐ TENDER ☐ REVISION ☐ FABRICATION ☐ CONSTRUCTION ☐ APPROVAL

DESIGN BY	DRAWN BY	CHECKED BY	APPROVED BY	PAPER SIZE	SHEET NO.
NPT 23/22	NPT 23/22	DGB 23/22	KHR 23/22	A0	01/01