

ANNEXURE 1

BILL OF MATERIAL FOR STRUCTURE ASSEMBLY OF 50 kWp HORIZONTAL AXIS PASSIVE TRACKERS

Sl. No.	Description	Material	Quantity	Wt. (Kg/m)	Unit Length	Unit Wt. (Kg.)	Total Wt. (Kg.)	Wt. PART WISE	No. of Parts Required	Gross Wt.	DRAWING No.
POLE											
1	PIPE 80 Nb (3/4") MEDIUM, OD 88.9, ID 80.8 (Wall Thk. 4.05), LENGTH 900	MS	1	8.480	0.900	7.632	7.632	24.934	42	1047.228	3-13-572-62-22-00
2	BOTTOM PLATE 10t x 270 x 270	MS	1	25.100	0.270	6.777	6.777				
3	TOP PLATE 10t x 270 x 270	MS	1	25.100	0.270	6.777	6.777				
4	BOTTOM RIBS 3t x 80 - developed length 272	MS	4	2.000	0.272	0.544	2.176				
5	TOP RIBS 3t x 80 - developed length 172	MS	4	2.000	0.172	0.344	1.376				
6	FLAT 5t x 50 x 50	MS	2	1.960	0.050	0.098	0.196				
SHAFT											
1	PIPE 65 Nb (2 1/2") MEDIUM, OD 76.1, ID 68.8 (Wall Thk. 3.65), LENGTH 5157	MS	1	6.530	5.157	33.675	33.675	67.649	36	2435.354	3-13-572-62-23-00
2	PIPE 65 Nb (2 1/2") MEDIUM, OD 76.1, ID 68.8 (Wall Thk. 3.65), LENGTH 82	MS	2	6.530	0.082	0.535	1.071				
3	BEARING SHAFT ø76.1, LENGTH 140	MS	2	39.500	0.140	5.530	11.060				
4	CRANK - FLAT 16t x 100 x 155	MS	2	12.600	0.155	1.953	3.906				
5	BRACKET (around pipe) - FLAT 4t x 50 - developed length 270	MS	6	1.570	0.270	0.424	2.543				
6	BRACKET (bottom) - PLATE 4t x 160 - developed length 125	MS	6	5.000	0.125	0.625	3.750				
7	BRACKET (guides) - FLAT 8t x 41 x 12	MS	12	2.510	0.012	0.030	0.361				
8	STIFFNER (pipe bottom) - FLAT 5t x 50 x 986	MS	4	1.960	0.986	1.933	7.730				
9	STIFFNER (pipe bottom) - FLAT 5t x 50 x 906	MS	2	1.960	0.906	1.776	3.552				
MAIN FRAME (1 & 6)											
1	ISA 40 x 40 x 5t x 1200	MS	1	3.000	1.200	3.600	3.600	4.716	72	339.578	3-13-572-62-24-00
2	ISA 32 x 32 x 3t x 120	MS	2	1.880	0.120	0.226	0.451				
3	ISA 32 x 32 x 3t x 70	MS	2	1.880	0.070	0.132	0.263				
4	PLATE 3t x 60 - developed length 95	MS	2	1.420	0.095	0.135	0.270				
5	PLATE 3t x 50 x 28	MS	4	1.180	0.028	0.033	0.132				

	MAIN FRAME (2 & 5)											
1	ISA 40 x 40 x 5t x 1200	MS	1	3.000	1.200	3.600	3.600	4.427	72	318.758	3-13-572-62-25-00	
2	ISA 32 x 32 x 3t x 120	MS	2	1.880	0.120	0.226	0.451					
3	ISA 32 x 32 x 3t x 100	MS	2	1.880	0.100	0.188	0.376					
	MAIN FRAME (3 & 4)											
1	ISA 40 x 40 x 5t x 1975	MS	1	3.000	1.975	5.925	5.925	6.752	72	486.158	3-13-572-62-26-00	
2	ISA 32 x 32 x 3t x 120	MS	2	1.880	0.120	0.226	0.451					
3	ISA 32 x 32 x 3t x 100	MS	2	1.880	0.100	0.188	0.376					
	STOPPER BRACKET											
1	ISA 40 x 40 x 5t x 364	MS	1	3.000	0.364	1.092	1.092	3.229	72	232.507	3-13-572-62-27-00	
2	ISA 32 x 32 x 3t x 216	MS	2	1.880	0.216	0.406	0.812					
3	ISA 32 x 32 x 3t x 114	MS	1	1.880	0.114	0.214	0.214					
4	FLAT 5t x 29 x 29	MS	2	1.410	0.029	0.041	0.082					
5	FLANGE ø60 x 21	MS	2	24.500	0.021	0.515	1.029					
	BOTTOM SUPPORT (LEFT) FOR STOPPER BRACKET											
1	ISA 32 x 32 x 3t x 350	MS	1	1.880	0.350	0.658	0.658	0.733	72	52.776	4-13-572-62-28-00	
2	PLATE 3t x 40 x 75	MS	1	1.000	0.075	0.075	0.075					
	BOTTOM SUPPORT (RIGHT) FOR STOPPER BRACKET											
1	ISA 32 x 32 x 3t x 350	MS	1	1.880	0.350	0.658	0.658	0.733	72	52.776	4-13-572-62-29-00	
2	PLATE 3t x 40 x 75	MS	1	1.000	0.075	0.075	0.075					
	FIXED END BRACKET (LEFT) FOR SHOCK ABSORBER											
1	PLATE 3t x 75 - developed length 135	MS	1	1.770	0.135	0.239	0.239	0.298	72	21.452	4-13-572-62-30-00	
2	PLATE 3t x 50 x 25	MS	2	1.180	0.025	0.030	0.059					
	FIXED END BRACKET (RIGHT) FOR SHOCK ABSORBER											
1	PLATE 3t x 75 - developed length 135	MS	1	1.770	0.135	0.239	0.239	0.298	72	21.452	4-13-572-62-31-00	
2	PLATE 3t x 50 x 25	MS	2	1.180	0.025	0.030	0.059					
	MOVING END BRACKET FOR SHOCK ABSORBER											
1	PLATE 3t x 75 - developed length 165	MS	1	1.770	0.165	0.292	0.292	0.337	144	48.599	4-13-572-62-32-00	
2	PLATE 3t x 56 x 16	MS	2	1.420	0.016	0.023	0.045					
	TOTAL GROSS WT.									5056.639		

Note: The weights mentioned in the BOM are Calculated Values for estimation purpose only. The Quantity corresponding to respective Drawings No's should be supplied.