

BILL OF MATERIAL FOR STRUCTURE ASSEMBLY OF 2.7 kWp POLAR AXIS PASSIVE TRACKER

<i>Item No.</i>	<i>Description</i>	<i>Material</i>	<i>Quantity</i>	<i>Wt. (Kg/m)</i>	<i>Unit Length</i>	<i>Unit Wt. (Kg.)</i>	<i>Total Wt. (Kg.)</i>	<i>Total Wt. PART WISE</i>
FRONT POLE TOWER DESIGN								
1	ISA 40 x 40 x 3t x 1831	MS	2	1.800	1.831	3.296	6.592	39.188
2	ISA 40 x 40 x 3t x 1782	MS	2	1.800	1.782	3.208	6.415	
3	ISA 40 x 40 x 5t x 40	MS	2	3.000	0.040	0.120	0.240	
4	ISA 25 x 25 x 3t x 354	MS	2	1.100	0.354	0.389	0.779	
5	ISA 25 x 25 x 3t x 338	MS	2	1.100	0.338	0.372	0.744	
6	ISA 25 x 25 x 3t x 321	MS	2	1.100	0.321	0.353	0.706	
7	ISA 25 x 25 x 3t x 305	MS	2	1.100	0.305	0.336	0.671	
8	ISA 25 x 25 x 3t x 289	MS	2	1.100	0.289	0.318	0.636	
9	ISA 25 x 25 x 3t x 273	MS	2	1.100	0.273	0.300	0.601	
10	ISA 25 x 25 x 3t x 257	MS	2	1.100	0.257	0.283	0.565	
11	ISA 25 x 25 x 3t x 241	MS	2	1.100	0.241	0.265	0.530	
12	ISA 25 x 25 x 3t x 224	MS	2	1.100	0.224	0.246	0.493	
13	ISA 25 x 25 x 3t x 208	MS	2	1.100	0.208	0.229	0.458	
14	ISA 25 x 25 x 3t x 192	MS	2	1.100	0.192	0.211	0.422	
15	PLATE 10t x 400 x 400	MS	1	31.400	0.400	12.560	12.560	
16	PLATE 10t x 270 x 270	MS	1	25.100	0.270	6.777	6.777	

REAR POLE TOWER DESIGN								
1	ISA 40 x 40 x 3t x 2971	MS	2	1.800	2.971	5.348	10.696	52.147
2	ISA 40 x 40 x 3t x 2921	MS	2	1.800	2.921	5.258	10.516	
3	ISA 40 x 40 x 5t x 40	MS	2	3.000	0.040	0.120	0.240	
4	ISA 25 x 25 x 3t x 360	MS	2	1.100	0.360	0.396	0.792	
5	ISA 25 x 25 x 3t x 350	MS	2	1.100	0.350	0.385	0.770	
6	ISA 25 x 25 x 3t x 341	MS	2	1.100	0.341	0.375	0.750	
7	ISA 25 x 25 x 3t x 331	MS	2	1.100	0.331	0.364	0.728	
8	ISA 25 x 25 x 3t x 321	MS	2	1.100	0.321	0.353	0.706	
9	ISA 25 x 25 x 3t x 311	MS	2	1.100	0.311	0.342	0.684	
10	ISA 25 x 25 x 3t x 301	MS	2	1.100	0.301	0.331	0.662	
11	ISA 25 x 25 x 3t x 291	MS	2	1.100	0.291	0.320	0.640	
12	ISA 25 x 25 x 3t x 282	MS	2	1.100	0.282	0.310	0.620	
13	ISA 25 x 25 x 3t x 272	MS	2	1.100	0.272	0.299	0.598	
14	ISA 25 x 25 x 3t x 262	MS	2	1.100	0.262	0.288	0.576	
15	ISA 25 x 25 x 3t x 252	MS	2	1.100	0.252	0.277	0.554	
16	ISA 25 x 25 x 3t x 242	MS	2	1.100	0.242	0.266	0.532	
17	ISA 25 x 25 x 3t x 232	MS	2	1.100	0.232	0.255	0.510	
18	ISA 25 x 25 x 3t x 223	MS	2	1.100	0.223	0.245	0.491	
19	ISA 25 x 25 x 3t x 213	MS	2	1.100	0.213	0.234	0.469	
20	ISA 25 x 25 x 3t x 203	MS	2	1.100	0.203	0.223	0.447	
21	ISA 25 x 25 x 3t x 193	MS	2	1.100	0.193	0.212	0.425	
22	ISA 25 x 25 x 3t x 183	MS	2	1.100	0.183	0.201	0.403	
23	PLATE 10t x 400 x 400	MS	1	31.400	0.400	12.560	12.560	
24	PLATE 10t x 270 x 270	MS	1	25.100	0.270	6.777	6.777	

	SHAFT							
1	PIPE 80 Nb (3¼") HEAVY, OD 88.9, ID 79.2 (Wall Thk. 4.85), LENGTH 2870	MS	1	10.100	2.870	28.987	28.987	56.572
2	PIPE 65 Nb (2½") HEAVY, OD 76.1, ID 67.1 (Wall Thk. 4.5), LENGTH 400	MS	2	7.920	0.400	3.168	6.336	
3	BEARING SHAFT ø76.1, LENGTH 140	SS 304	2	39.500	0.140	5.530	11.060	
4	SPACER RING OD 79.2, ID 76.1, LENGTH 75 (Sheet 1.55t x 75 - developed length 230)	MS	2	1.300	0.230	0.299	0.598	
5	BRACKET (centre-around pipe) FLAT 6t x 60 - developed length 330	MS	1	2.830	0.330	0.934	0.934	
6	BRACKET (centre-bottom) FLAT 6t x 200 - developed length 220	MS	1	9.400	0.220	2.068	2.068	
7	BRACKET (centre-guides) FLAT 8t x 40 x 19	MS	2	2.510	0.019	0.048	0.095	
8	BRACKET (ends-around pipe) FLAT 6t x 60 - developed length 305	MS	2	2.830	0.305	0.863	1.726	
9	BRACKET (ends-bottom) FLAT 6t x 200 - developed length 240	MS	2	9.400	0.240	2.256	4.512	
10	BRACKET (ends-guides) FLAT 8t x 40 x 25.4	MS	4	2.510	0.025	0.064	0.255	
	MAIN FRAME							
1	RECTANGULAR HOLLOW SECTION (RHS) 80/40, Wall Thk. 3.2, LENGTH 3000	MS	3	5.500	3.000	16.500	49.500	65.747
2	RECTANGULAR HOLLOW SECTION (RHS) 66/33, Wall Thk. 2.6, LENGTH 721	MS	6	3.690	0.721	2.660	15.963	
3	SPACER - FLAT 3.8t x 21 x 32	MS	12	0.471	0.032	0.015	0.181	
4	SPACER - FLAT 0.3t x 21 x 73	MS	12	0.118	0.073	0.009	0.103	
	PANEL FIXING FRAME FOR 80 x 40 x 3.2t RHS							
1	RECTANGULAR HOLLOW SECTION (RHS) 66/33, Wall Thk. 2.6, LENGTH 5375	MS	2	3.690	5.375	19.834	39.668	46.660
2	ISA 60 x 60 x 5t x 43	MS	12	4.500	0.043	0.194	2.322	
3	ISA 45 x 45 x 5t x 70	MS	4	3.400	0.070	0.238	0.952	
4	ISA 35 x 35 x 5t x 160	MS	8	2.600	0.160	0.416	3.328	
5	ISA 35 x 35 x 5t x 30	MS	4	2.600	0.030	0.078	0.312	
6	PLATE 5t x 50 x 100	MS	4	0.196	0.100	0.020	0.078	

