

Appendix –A

Table (10): simulated PV system data (Helioscope data).

Array Yield kWh/kWp/day	Final Yield kWh/kWp/day	Daily Reference Yield kWh/kWp/day	A*IR	System Efficiency %	C.F	Inverter Efficiency	DC Energy output in kWh	AC Energy output in kWh	month
3.267343	3.146452	4.158065	4443.054	11.0%	13.11%	96.30%	506.4382	487.7	Jan
4.029818	3.880714	5.135714	4956.642	10.96%	16.17%	96.30%	564.1745	543.3	Feb
4.540247	4.372258	5.954839	6362.977	10.65%	18.22%	96.30%	703.7383	677.7	Mar
4.765663	4.589333	6.36	6576.685	10.47%	19.12%	96.30%	714.8494	688.4	Apr
5.212206	5.019355	7.158065	7648.671	10.17%	20.91%	96.30%	807.892	778	May
5.424714	5.224	7.663333	7924.423	9.89%	21.77%	96.30%	813.7072	783.6	Jun
5.257763	5.063226	7.519355	8034.724	9.77%	21.10%	96.30%	814.9533	784.8	July
5.124443	4.934839	7.348387	7852.038	9.74%	20.56%	96.30%	794.2887	764.9	Aug
4.854967	4.675333	6.83	7062.698	9.93%	19.48%	96.30%	728.2451	701.3	Sept
4.282987	4.124516	5.822581	6221.655	10.28%	17.19%	96.30%	663.8629	639.3	Oct
3.680858	3.544667	4.786667	4949.748	10.74%	14.77%	96.30%	552.1288	531.7	Nov
2.938398	2.829677	3.76129	4019.085	11%	11.79%	96.30%	455.4517	438.6	Dec

... continued Table (10).

Nominal Efficiency %	Ambient Temperature in Celsius	Array Efficiency %	Performance Ratio %	GlobInc In-plan solar irradiation kWh/m ²	Overall losses kWh/kWp/day	Array losses kWh/kWp/day	System losses kWh/kWp/day
15%	16.8	11.4%	76%	128.9	1.011613	0.890721	0.120892
15%	18.5	11.4%	75.6%	143.8	1.255	1.105897	0.149103
15%	23.9	11.1%	73.4%	184.6	1.582581	1.414591	0.167989
15%	28.8	10.9%	72.2%	190.8	1.770667	1.594337	0.17633
15%	33.6	10.6%	70.1%	221.9	2.13871	1.945858	0.192852
15%	43	10.3%	68.2%	229.9	2.439333	2.238619	0.200714
15%	44	10.1%	67.3%	233.1	2.456129	2.261592	0.194537
15%	43	10.1%	67.2%	227.8	2.413548	2.223944	0.189604
15%	40	10.3%	68.5%	204.9	2.154667	1.975033	0.179634
15%	34	10.7%	70.8%	180.5	1.698065	1.539594	0.158471
15%	23.5	11.2%	74.1%	143.6	1.242	1.105808	0.136192
15%	19	11.3%	75.2%	116.6	0.931613	0.822892	0.108721