Appendix- I

BLOCK NAME	HOSTEL 1	HOSTEL 2		HOSTEL 3	
Inverter No. / Day	1	2	3	4	5
	120000962	120000948	120000958	120000949	120000951
1/Jan	49.1	58.4	53.1	52.6	58.3
2/Jan	46.9	46.2	42.5	42.0	46.0
3/Jan	58.0	57.3	51.9	51.0	56.3
4/Jan	66.1	65.1	59.3	58.1	63.4
5/Jan	46.3	49.3	45.0	44.9	49.6
6/Jan	76.3	76.5	68.2	68.7	76.2
7/Jan	63.1	63.9	56.2	56.7	64.0
8/Jan	82.7	83.0	75.5	74.4	82.9
9/Jan	71.7	71.9	66.2	65.3	73.3
10/Jan	82.3	82.9	72.1	74.3	83.0
11/Jan	58.9	76.8	64.7	68.7	76.5
12/Jan	0.0	80.3	72.2	71.8	80.2
13/Jan	0.0	81.7	74.3	74.0	0.0
14/Jan	74.3	82.5	75.0	74.5	74.3
15/Jan	37.9	43.7	40.0	34.3	37.9
16/Jan	83.2	82.6	75.0	75.0	83.2
17/Jan	68.4	67.8	61.7	61.0	68.4
18/Jan	63.8	64.2	59.2	59.1	63.7
19/Jan	64.6	64.1	58.3	58.2	63.8
20/Jan	48.3	49.0	45.7	47.9	51.7
21/Jan	52.7	54.2	50.3	50.4	53.7
22/Jan	85.3	82.0	75.1	75.7	88.3
23/Jan	94.7	95.1	86.8	74.7	84.0
24/Jan	91.4	91.2	83.7	82.5	92.3
25/Jan	84.0	83.6	76.1	75.4	84.1
26/Jan	70.0	70.3	63.6	55.0	60.9
27/Jan	64.4	64.3	58.7	57.2	61.7
28/Jan	79.2	79.8	73.0	72.1	79.4
29/Jan	79.1	79.8	73.0	72.1	79.2
30/Jan	81.8	84.2	79.3	78.5	87.0
31/Jan	86.8	92.0	84.7	84.8	93.8
JAN-KWh	2011.3	2223.7	2020.4	1990.9	2117.1

	DINNING HALL									
	6	7	8	9	10	11	12	13	14	15
	080161140	080161141	080161144	080161147	000801162	080161165	080161173	080161176	080161177	080161118
1	53.2	53.2	51.0	52.8	DEFECT	51.0	52.8	49.6	49.4	49.3
2	43.9	43.8	41.9	43.5	DEFECT	41.9	43.7	40.3	40.3	34.6
3	50.8	50.9	50.2	50.5	DEFECT	50.2	50.4	50.0	50.0	49.9
4	56.6	56.7	56'1	56.2	DEFECT	56.1	56.3	56.2	55.9	42.3
5	43.1	63.3	39.9	42.9	DEFECT	40.1	42.6	37.4	37.7	37.3
6	60.0	60.2	59.2	59.7	DEFECT	59.1	49.4	58.9	58.7	58.5
7	54.8	54.6	52.3	54.7	DEFECT	52.7	53.6	52.8	52.5	51.1
8	64.8	64.9	65.6	64.3	DEFECT	65.2	63.3	66.6	66.2	66.0
9	59.4	59.6	60.0	60.0	DEFECT	59.8	59.9	60.3	60.0	59.8
10	65.3	65.2	65.5	64.7	DEFECT	68.2	64.8	66.1	65.7	65.4
11	61.3	61.5	61.0	60.8	DEFECT	60.3	60.8	61.2	61.1	60.7
12	63.4	63.8	63.2	63.2	DEFECT	63.3	63.0	63.8	63.4	63.2
13	60.6	60.9	62.3	60.4	DEFECT	61.3	60.3	63.4	63.2	62.8
14	63.6	64.5	64.1	63.3	DEFECT	63.4	63.3	65.0	64.6	64.1
15	28.9	30.0	29.0	29.0	DEFECT	31.8	27.5	31.0	31.0	32.4
16	68.2	68.1	66.1	67.5	DEFECT	67.9	67.5	64.0	63.9	68.1
17	58.2	57.8	57.9	57.0	DEFECT	56.9	57.3	59.7	58.9	58.1
18	57.8	57.7	55.7	57.3	DEFECT	55.6	57.3	54.4	54.2	53.6
19	57.4	57.2	56.3	56.8	DEFECT	55.9	57.1	55.8	55.5	55.0
20	45.8	45.7	45.1	45.4	DEFECT	45.1	45.6	44.9	44.9	44.5
21	48.8	49.2	47.5	48.9	DEFECT	47.7	48.9	46.8	46.7	46.3
22	67.4	67.8	67.8	67.8	DEFECT	69.6	66,4	69.2	68.4	69.1
23	76.5	56.5	64.8	76.0	DEFECT	75.1	75.3	66.4	65.0	64.0
24	74.0	73.5	73.9	73.6	DEFECT	72.6	72.9	74.1	73.8	71.4
25	67.8	68.0	68.2	67.2	DEFECT	67.7	67.8	68.9	68.7	65.9
26	59.1	59.2	51.9	58.8	DEFECT	59.1	58.9	52.8	52.7	50.6
27	56.9	57.1	55.4	56.7	DEFECT	55.9	56.4	55.5	55.2	53.1
28	66.4	69.5	67.6	68.9	DEFECT	67.1	67.5	66.4	66.4	63.9
29	67.6	67.7	68.5	67.2	DEFECT	67.1	68.0	68.9	68.6	67.9
30	71.4	72.0	69.5	70.7	DEFECT	69.2	69.8	68.6	68.6	68.1
31	73.6	73.9	73.8	73.1	DEFECT	73.5	73.4	74.1	74.2	63.7
	1846.6	1854.0	1755.2	1838.9	0.0	1830.4	1755.4	1813.1	1805.4	1760.7

BLOCK NAME	VOCATIONAL BULDING			ACADEMIC BULDING		
Inverter No. / Day	16	17	18	19	20	21
	120000956	120000954	120000950	120000959	120000963	120000957
1	59.9	53.9	59.3	55.8	44.2	51.4
2	45.9	41.6	45.1	46.8	44.7	43.1
3	58.9	53.0	57.7	55.6	46.1	49.7
4	67.4	60.0	66.4	66.7	58.1	61.0
5	46.0	42.4	45.8	43.5	42.4	52.1
6	69.5	63.3	67.3	66.3	53.6	59.4
7	57.6	52.1	55.5	48.7	48.6	53.3
8	73.7	64.9	71.3	60.3	44.7	56.4
9	67.2	59.4	65.8	62.3	49.6	53.3
10	64.5	64.7	62.2	58.0	48.2	64.5
11	61.8	56.8	59.0	55.0	48.0	59.5
12	71.9	69.8	76.8	74.1	48.5	68.7
13	71.4	52.5	68.3	62.1	59.3	62.0
14	72.2	66.8	74.1	74.4	52.8	68.7
15	35.3	29.6	34.0	34.4	35.8	34.0
16	77.1	56.6	75.1	71.9	61.8	67.7
17	64.1	51.4	62.7	61.4	58.6	59.1
18	57.2	52.8	56.3	54.1	45.8	52.7
19	58.8	38.2	57.1	61.5	51.5	56.8
20	42.0	45.2	41.4	39.1	33.9	37.8
21	44.8	66.3	44.4	43.4	41.6	44.3
22	70.0	44.2	69.4	62.7	54.7	64.4
23	46.5	21.9	46.4	39.0	30.6	38.2
24	22.0	17.9	19.5	22.7	21.6	21.4
25	18.8	14.2	15.7	18.0	17.2	18.8
26	14.1	15.7	12.6	14.5	14.1	13.5
27	15.7	20.3	14.3	14.9	14.7	14.1
28	20.2	28.9	18.6	20.6	20.0	19.8
29	43.1	29.7	30.3	19.8	18.5	18.6
30	62.1	42.1	40.5	21.3	19.8	20.4
31	66.2	44.8	42.8	22.6	21.0	21.9
JAN-KWh	1645.9	1421.0	1555.7	1451.5	1250.0	1406.6

BLOCK NAME	HOSTEL 4 (A)		HOSTEL 4 (B)		Total Units for the Day
Inverter No. / Day	22	23	24	25	
	120000955	120000953	120000960	120000952	
1	59.9	EARTH FAULT	96.2	44.7	1259.1
2	46.2	EARTH FAULT	41.4	33.4	985.7
3	57.6	EARTH FAULT	54.4	52.7	1213.1
4	66.7	EARTH FAULT	50.5	20.7	1265.8
5	35.2	EARTH FAULT	21.8	34.6	983.2
6	67.2	EARTH FAULT	50.4	22.9	1409.5
7	42.8	EARTH FAULT	32.3	27.8	1201.7
8	56.3	EARTH FAULT	43.7	36.4	1493.1
9	61.4	EARTH FAULT	47.7	54.2	1408.1
10	69.7	EARTH FAULT	62.9	30.4	1510.6
11	54.7	EARTH FAULT	44.6	28.0	1361.7
12	72.4	EARTH FAULT	45.3	28.7	1431.0
13	44.9	15.5	45.7	28.4	1295.3
14	41.5	50.9	47.8	14.1	1519.8
15	28.5	33.2	29.3	24.5	783.0
16	47.6	45.0	54.5	33.0	1590.6
17	39.7	52.0	38.3	31.3	1367.7
18	30.8	40.6	40.0	35.5	1279.4
19	39.2	43.1	42.1	28.5	1292.8
20	26.6	28.6	33.2	23.3	1000.7
21	34.8	38.3	38.3	32.9	1121.2
22	39.4	54.3	32.9	30.0	1475.5
23	34.3	42.3	38.2	31.5	1423.8
24	35.4	43.0	42.8	43.0	1390.2
25	37.3	35.1	34.3	34.0	1256.8
26	30.6	28.8	29.4	26.6	1022.8
27	31.6	29.9	31.5	31.3	1026.8
28	40.8	38.6	39.9	40.2	1274.8
29	40.8	38.5	39.5	40.0	1313.5
30	42.4	39.5	38.0	38.4	1403.2
31	45.0	42.6	42.4	42.8	1487.5
JAN-KWh	1401.3	739.8	1329.3	1023.8	39848.0

APPENDIX- II

Observation Table for I-V and P-V Characteristics at Different Solar Irradiation Level

Solar Irradiation at 1200 w/m2		
Voltage(V)	Current(I)	Power(p)
0.2	0.38	0.076
1.8	0.37	0.666
3.6	0.36	1.296
6	0.35	2.1
7.5	0.35	2.625
9.3	0.34	3.162
11.4	0.33	3.762
13.8	0.33	4.554
14.4	0.33	4.752
15.5	0.32	4.96
17.6	0.28	4.928
18.3	0.12	2.196
21.8	0	0

Solar Irradiation at 1000 w/m2		
Voltage(V)	Current(I)	Power(p)
0.2	0.33	0.066
1.2	0.32	0.384
2.3	0.32	0.736
4.2	0.31	1.302
5.3	0.31	1.643
7.4	0.3	2.22
9	0.3	2.7
12.6	0.29	3.654
14.8	0.28	4.144
16.7	0.28	4.676
17.7	0.27	4.779
17.9	0.26	4.654
18	0.2	3.6
18.1	0.17	3.077
18.4	0.1	1.84
18.8	0.07	1.316
21.8	0	0

Solar Irradiation at 800 w/m2		
Voltage(V)	Current(I)	Power(p)
0.1	0.3	0.03
0.9	0.3	0.27
1.5	0.3	0.45
2.4	0.3	0.72
3.2	0.3	0.96
5	0.29	1.45
7.8	0.28	2.184
9	0.28	2.52
10	0.28	2.8
13	0.27	3.51
15	0.26	3.9
16.3	0.26	4.238
17.5	0.25	4.375
17.9	0.23	4.117
18.1	0.22	3.982
18.2	0.19	3.458
18.3	0.16	2.928
18.4	0.15	2.76
18.5	0.13	2.405
18.6	0.09	1.674
18.7	0.06	1.122
21.8	0	0

Solar Irradiation at 600 w/m2		
Voltage(V)	Current(I)	Power(p)
0.8	0.33	0.264
2.1	0.33	0.693
3.3	0.33	1.089
5.4	0.32	1.728
6.1	0.32	1.952
8.47	0.31	2.6257
9.7	0.31	3.007
12.1	0.3	3.63
13.1	0.3	3.93
15.2	0.29	4.408
17.5	0.27	4.725
17.8	0.23	4.094
18	0.22	3.96
18.1	0.19	3.439
18.2	0.17	3.094
18.3	0.15	2.745
18.4	0.114	2.0976
18.5	0.08	1.48
21.8	0	0