

# SMARTER ENERGY SOLUTION

## Preventive Maintenance Solar System



|                 |                  |               |           |          |                 |
|-----------------|------------------|---------------|-----------|----------|-----------------|
| Customer Name : | Saman Samal      | Maintenance : | MA        | Date :   | 20 October 2025 |
| Solar Panel     |                  |               |           | Inverter |                 |
| Brand           | Model            | Capacity      | Install   | Brand    | Model           |
| Sonnax          | SMA-D60 AND-680W | 7 kWp         | 16 Panels | Solix    | SB-AP1P5K       |

### Before Preventive Maintenance Solar System

| Solar Panels | Operating Voltage / Current |     |     |     |     | Time | Inspection |   | Remark |
|--------------|-----------------------------|-----|-----|-----|-----|------|------------|---|--------|
| String 1     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | 15:00      | ✓ | Pass   |
| String 2     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          | ✓ | Pass   |
| String 3     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 4     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 5     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 6     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 7     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 8     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 9     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 10    | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 11    | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 12    | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |

### After Preventive Maintenance Solar System

| Solar Panels | Operating Voltage / Current |     |     |     |     | Time | Inspection |   | Remark |
|--------------|-----------------------------|-----|-----|-----|-----|------|------------|---|--------|
| String 1     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | 16:00      | ✓ | Pass   |
| String 2     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          | ✓ | Pass   |
| String 3     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 4     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 5     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 6     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 7     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 8     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 9     | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 10    | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 11    | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |
| String 12    | Panels                      | Vmp | Vdc | Voc | Isc | A.   | :          |   | Pass   |

### Inverter Inspection

| Device   | Field Measured Readings      | Readings from Inverter Display | Readings from Smarter Meter  | Field Measured Back Up |
|----------|------------------------------|--------------------------------|------------------------------|------------------------|
| Inverter | AC Line Voltage              | AC Line Voltage                | AC Line Voltage              | AC Line Voltage        |
|          | Phase L1 to Grd : 229.7 Vac. | Phase L1 to Grd : 224.9 Vac.   | Phase L1 to Grd : 224.9 Vac. | Phase L1 to Grd : Vac. |
|          | Phase L2 to Grd : Vac.       | Phase L2 to Grd : Vac.         | Phase L2 to Grd : Vac.       | Phase L2 to Grd : Vac. |
|          | Phase L3 to Grd : Vac.       | Phase L3 to Grd : Vac.         | Phase L3 to Grd : Vac.       | Phase L3 to Grd : Vac. |
|          | AC Line Current              | AC Line Current                | AC Line Current              |                        |
|          | Phase L1 to Grd : 1.05 A.    | Phase L1 to Grd : 0.90 A.      | Phase L1 to Grd : 0.88 A.    |                        |
|          | Phase L2 to Grd : A.         | Phase L2 to Grd : A.           | Phase L2 to Grd : A.         |                        |
|          | Phase L3 to Grd : A.         | Phase L3 to Grd : A.           | Phase L3 to Grd : A.         |                        |

Comment :

Inspection By :

(Bunhan Libroy) Project Engineer

Date : / /