

# SMARTER ENERGY SOLUTION

## Preventive Maintenance Solar System



|                                        |         |          |           |                  |              |                      |  |
|----------------------------------------|---------|----------|-----------|------------------|--------------|----------------------|--|
| Customer Name : Finchar Tapirana V. 13 |         |          |           | Maintenance : MA |              | Date : 1 August 2025 |  |
| Solar Panel                            |         |          |           | Inverter         |              |                      |  |
| Brand                                  | Model   | Capacity | Install   | Brand            | Model        | S/N                  |  |
| E-100m                                 | E-14050 | 20 kWp.  | 42 Panels | Solix            | SB-EH3P20K-H | 1033160248310021     |  |

### Before Preventive Maintenance Solar System

| Solar Panels |    |        | Operating Voltage / Current |       |     |     |       | Time | Inspection |      |    | Remark   |      |      |          |          |  |
|--------------|----|--------|-----------------------------|-------|-----|-----|-------|------|------------|------|----|----------|------|------|----------|----------|--|
| String 1     | 11 | Panels | Vmp                         | 362.4 | Vdc | Voc | 407.1 | Vdc  | Isc        | 9.17 | A. | 9 : 45 ✓ | Pass |      | Not Pass |          |  |
| String 2     | 11 | Panels | Vmp                         | 348.2 | Vdc | Voc | 402.9 | Vdc  | Isc        | 8.19 | A. | :        | ✓    | Pass |          | Not Pass |  |
| String 3     | 10 | Panels | Vmp                         | 317.6 | Vdc | Voc | 380.1 | Vdc  | Isc        | 8.40 | A. | :        | ✓    | Pass |          | Not Pass |  |
| String 4     | 10 | Panels | Vmp                         | 326.0 | Vdc | Voc | 382.1 | Vdc  | Isc        | 8.57 | A. | :        | ✓    | Pass |          | Not Pass |  |
| String 5     |    | Panels | Vmp                         |       | Vdc | Voc |       | Vdc  | Isc        |      | A. | :        |      | Pass |          | Not Pass |  |
| String 6     |    | Panels | Vmp                         |       | Vdc | Voc |       | Vdc  | Isc        |      | A. | :        |      | Pass |          | Not Pass |  |
| String 7     |    | Panels | Vmp                         |       | Vdc | Voc |       | Vdc  | Isc        |      | A. | :        |      | Pass |          | Not Pass |  |
| String 8     |    | Panels | Vmp                         |       | Vdc | Voc |       | Vdc  | Isc        |      | A. | :        |      | Pass |          | Not Pass |  |
| String 9     |    | Panels | Vmp                         |       | Vdc | Voc |       | Vdc  | Isc        |      | A. | :        |      | Pass |          | Not Pass |  |
| String 10    |    | Panels | Vmp                         |       | Vdc | Voc |       | Vdc  | Isc        |      | A. | :        |      | Pass |          | Not Pass |  |
| String 11    |    | Panels | Vmp                         |       | Vdc | Voc |       | Vdc  | Isc        |      | A. | :        |      | Pass |          | Not Pass |  |
| String 12    |    | Panels | Vmp                         |       | Vdc | Voc |       | Vdc  | Isc        |      | A. | :        |      | Pass |          | Not Pass |  |

### After Preventive Maintenance Solar System

| Solar Panels |    |        | Operating Voltage / Current |     |           |     |          | Time | Inspection |   |      | Remark |          |  |
|--------------|----|--------|-----------------------------|-----|-----------|-----|----------|------|------------|---|------|--------|----------|--|
| String 1     | 11 | Panels | Vmp 356.9                   | Vdc | Voc 425.2 | Vdc | Isc 8.49 | A.   | 10 : 30    | ✓ | Pass |        | Not Pass |  |
| String 2     | 11 | Panels | Vmp 359.5                   | Vdc | Voc 429.0 | Vdc | Isc 9.70 | A.   | :          | ✓ | Pass |        | Not Pass |  |
| String 3     | 10 | Panels | Vmp 328.0                   | Vdc | Voc 386.5 | Vdc | Isc 8.13 | A.   | :          | ✓ | Pass |        | Not Pass |  |
| String 4     | 10 | Panels | Vmp 321.7                   | Vdc | Voc 390.8 | Vdc | Isc 10.4 | A.   | :          | ✓ | Pass |        | Not Pass |  |
| String 5     |    | Panels | Vmp                         | Vdc | Voc       | Vdc | Isc      | A.   | :          |   | Pass |        | Not Pass |  |
| String 6     |    | Panels | Vmp                         | Vdc | Voc       | Vdc | Isc      | A.   | :          |   | Pass |        | Not Pass |  |
| String 7     |    | Panels | Vmp                         | Vdc | Voc       | Vdc | Isc      | A.   | :          |   | Pass |        | Not Pass |  |
| String 8     |    | Panels | Vmp                         | Vdc | Voc       | Vdc | Isc      | A.   | :          |   | Pass |        | Not Pass |  |
| String 9     |    | Panels | Vmp                         | Vdc | Voc       | Vdc | Isc      | A.   | :          |   | Pass |        | Not Pass |  |
| String 10    |    | Panels | Vmp                         | Vdc | Voc       | Vdc | Isc      | A.   | :          |   | Pass |        | Not Pass |  |
| String 11    |    | Panels | Vmp                         | Vdc | Voc       | Vdc | Isc      | A.   | :          |   | Pass |        | Not Pass |  |
| String 12    |    | Panels | Vmp                         | Vdc | Voc       | Vdc | Isc      | A.   | :          |   | Pass |        | Not 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 :       | 227.3 Vac. | Phase L1 to Grd :              |  | Phase L1 to Grd :           | 228.8 Vac. | Phase L1 to Grd :      | Vac. |
|          | Phase L2 to Grd :       | 229.6 Vac. | Phase L2 to Grd :              |  | Phase L2 to Grd :           | 229.3 Vac. | Phase L2 to Grd :      | Vac. |
|          | Phase L3 to Grd :       | 230.1 Vac. | Phase L3 to Grd :              |  | Phase L3 to Grd :           | 231.7 Vac. | Phase L3 to Grd :      | Vac. |
|          | AC Line Current         |            | AC Line Current                |  | AC Line Current             |            |                        |      |
|          | Phase L1 to Grd :       | 16.59 A.   | Phase L1 to Grd :              |  | Phase L1 to Grd :           | 7.90 A.    | Phase L1 to Grd :      | A.   |
|          | Phase L2 to Grd :       | 12.59 A.   | Phase L2 to Grd :              |  | Phase L2 to Grd :           | 12.00 A.   | Phase L2 to Grd :      | A.   |
|          | Phase L3 to Grd :       | 17.24 A.   | Phase L3 to Grd :              |  | Phase L3 to Grd :           | 12.90 A.   | Phase L3 to Grd :      | A.   |

Comment :

Inspection By :

(Bunham Library) Project Engineer

Date : \_\_\_\_/\_\_\_\_/\_\_\_\_