

# SMARTER ENERGY SOLUTION

## Preventive Maintenance Solar System



|                                    |                        |               |                  |                         |                                 |
|------------------------------------|------------------------|---------------|------------------|-------------------------|---------------------------------|
| Customer Name : <u>Andamaya A1</u> |                        |               |                  | Maintenance : <u>MA</u> | Date : <u>18 September 2025</u> |
| Solar Panel                        |                        |               |                  | Inverter                |                                 |
| Brand                              | Model                  | Capacity      | Install          | Brand                   | Model                           |
| <u>Sonnax</u>                      | <u>80X-D60HND-480W</u> | <u>25</u> kWp | <u>60</u> Panels | <u>Solar</u>            | <u>25K-9A</u>                   |
|                                    |                        |               |                  | S/N                     |                                 |
|                                    |                        |               |                  | <u>110002211130012</u>  |                                 |

### Before Preventive Maintenance Solar System

| Solar Panels |                  | Operating Voltage / Current |     |                  |     | Time                | Inspection     |                                          | Remark                            |
|--------------|------------------|-----------------------------|-----|------------------|-----|---------------------|----------------|------------------------------------------|-----------------------------------|
| String 1     | <u>10</u> Panels | Vmp <u>381.3</u>            | Vdc | Voc <u>492.7</u> | Vdc | Isc <u>10.15</u> A. | <u>10 : 00</u> | <input checked="" type="checkbox"/> Pass | <input type="checkbox"/> Not Pass |
| String 2     | <u>10</u> Panels | Vmp <u>381.9</u>            | Vdc | Voc <u>492.3</u> | Vdc | Isc <u>9.81</u> A.  | :              | <input checked="" type="checkbox"/> Pass | <input type="checkbox"/> Not Pass |
| String 3     | <u>10</u> Panels | Vmp <u>375.5</u>            | Vdc | Voc <u>491.9</u> | Vdc | Isc <u>10.35</u> A. | :              | <input checked="" type="checkbox"/> Pass | <input type="checkbox"/> Not Pass |
| String 4     | <u>10</u> Panels | Vmp <u>371.2</u>            | Vdc | Voc <u>492.1</u> | Vdc | Isc <u>9.26</u> A.  | :              | <input checked="" type="checkbox"/> Pass | <input type="checkbox"/> Not Pass |
| String 5     | <u>10</u> Panels | Vmp <u>370.8</u>            | Vdc | Voc <u>491.0</u> | Vdc | Isc <u>9.97</u> A.  | :              | <input checked="" type="checkbox"/> Pass | <input type="checkbox"/> Not Pass |
| String 6     | <u>10</u> Panels | Vmp <u>369.6</u>            | Vdc | Voc <u>489.8</u> | Vdc | Isc <u>9.62</u> A.  | :              | <input checked="" type="checkbox"/> Pass | <input type="checkbox"/> Not Pass |
| String 7     | Panels           | Vmp                         | Vdc | Voc              | Vdc | Isc A.              | :              | <input type="checkbox"/> Pass            | <input type="checkbox"/> Not Pass |
| String 8     | Panels           | Vmp                         | Vdc | Voc              | Vdc | Isc A.              | :              | <input type="checkbox"/> Pass            | <input type="checkbox"/> Not Pass |
| String 9     | Panels           | Vmp                         | Vdc | Voc              | Vdc | Isc A.              | :              | <input type="checkbox"/> Pass            | <input type="checkbox"/> Not Pass |
| String 10    | Panels           | Vmp                         | Vdc | Voc              | Vdc | Isc A.              | :              | <input type="checkbox"/> Pass            | <input type="checkbox"/> Not Pass |
| String 11    | Panels           | Vmp                         | Vdc | Voc              | Vdc | Isc A.              | :              | <input type="checkbox"/> Pass            | <input type="checkbox"/> Not Pass |
| String 12    | Panels           | Vmp                         | Vdc | Voc              | Vdc | Isc A.              | :              | <input type="checkbox"/> Pass            | <input type="checkbox"/> Not Pass |

### After Preventive Maintenance Solar System

| Solar Panels |                  | Operating Voltage / Current |     |                  |     | Time               | Inspection     |                                          | Remark                            |
|--------------|------------------|-----------------------------|-----|------------------|-----|--------------------|----------------|------------------------------------------|-----------------------------------|
| String 1     | <u>10</u> Panels | Vmp <u>377.9</u>            | Vdc | Voc <u>476.5</u> | Vdc | Isc <u>9.62</u> A. | <u>10 : 45</u> | <input checked="" type="checkbox"/> Pass | <input type="checkbox"/> Not Pass |
| String 2     | <u>10</u> Panels | Vmp <u>378.6</u>            | Vdc | Voc <u>475.6</u> | Vdc | Isc <u>8.66</u> A. | :              | <input checked="" type="checkbox"/> Pass | <input type="checkbox"/> Not Pass |
| String 3     | <u>10</u> Panels | Vmp <u>375.7</u>            | Vdc | Voc <u>498.3</u> | Vdc | Isc <u>8.14</u> A. | :              | <input checked="" type="checkbox"/> Pass | <input type="checkbox"/> Not Pass |
| String 4     | <u>10</u> Panels | Vmp <u>370.4</u>            | Vdc | Voc <u>477.1</u> | Vdc | Isc <u>9.34</u> A. | :              | <input checked="" type="checkbox"/> Pass | <input type="checkbox"/> Not Pass |
| String 5     | <u>10</u> Panels | Vmp <u>370.6</u>            | Vdc | Voc <u>476.0</u> | Vdc | Isc <u>9.61</u> A. | :              | <input checked="" type="checkbox"/> Pass | <input type="checkbox"/> Not Pass |
| String 6     | <u>10</u> Panels | Vmp <u>366.0</u>            | Vdc | Voc <u>459.9</u> | Vdc | Isc <u>8.35</u> A. | :              | <input checked="" type="checkbox"/> Pass | <input type="checkbox"/> Not Pass |
| String 7     | Panels           | Vmp                         | Vdc | Voc              | Vdc | Isc A.             | :              | <input type="checkbox"/> Pass            | <input type="checkbox"/> Not Pass |
| String 8     | Panels           | Vmp                         | Vdc | Voc              | Vdc | Isc A.             | :              | <input type="checkbox"/> Pass            | <input type="checkbox"/> Not Pass |
| String 9     | Panels           | Vmp                         | Vdc | Voc              | Vdc | Isc A.             | :              | <input type="checkbox"/> Pass            | <input type="checkbox"/> Not Pass |
| String 10    | Panels           | Vmp                         | Vdc | Voc              | Vdc | Isc A.             | :              | <input type="checkbox"/> Pass            | <input type="checkbox"/> Not Pass |
| String 11    | Panels           | Vmp                         | Vdc | Voc              | Vdc | Isc A.             | :              | <input type="checkbox"/> Pass            | <input type="checkbox"/> Not Pass |
| String 12    | Panels           | Vmp                         | Vdc | Voc              | Vdc | Isc A.             | :              | <input type="checkbox"/> Pass            | <input type="checkbox"/> 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 :       | <u>234.6</u> Vac. | Phase L1 to Grd :              | <u>235.6</u> Vac. | Phase L1 to Grd :           | <u>235.5</u> Vac. | Phase L1 to Grd :      | Vac. |
|          | Phase L2 to Grd :       | <u>232.9</u> Vac. | Phase L2 to Grd :              | <u>233.7</u> Vac. | Phase L2 to Grd :           | <u>233.0</u> Vac. | Phase L2 to Grd :      | Vac. |
|          | Phase L3 to Grd :       | <u>233.0</u> Vac. | Phase L3 to Grd :              | <u>235.7</u> Vac. | Phase L3 to Grd :           | <u>233.9</u> Vac. | Phase L3 to Grd :      | Vac. |
|          | AC Line Current         |                   | AC Line Current                |                   | AC Line Current             |                   |                        |      |
|          | Phase L1 to Grd :       | <u>23.27</u> A.   | Phase L1 to Grd :              | <u>17.80</u> A.   | Phase L1 to Grd :           | <u>18.90</u> A.   |                        |      |
|          |                         | Phase L2 to Grd : | <u>24.81</u> A.                | Phase L2 to Grd : | <u>18.30</u> A.             | Phase L2 to Grd : | <u>12.30</u> A.        |      |
|          |                         | Phase L3 to Grd : | <u>25.58</u> A.                | Phase L3 to Grd : | <u>27.60</u> A.             | Phase L3 to Grd : | <u>21.00</u> A.        |      |

Comment :

Inspection By :

(Sunharn Library) Project Engineer

Date : / /