

# SMARTER ENERGY SOLUTION

## Preventive Maintenance Solar System



Customer Name : Yamu Head Land Maintenance : MA Date : 13 September 2024

### Solar Panel

| Brand         | Model            | Capacity       | Install          | Brand | Model | S/N |
|---------------|------------------|----------------|------------------|-------|-------|-----|
| <u>Carlom</u> | <u>EX480 HJT</u> | <u>10</u> Kwp. | <u>30</u> Panels |       |       |     |

### Before Preventive Maintenance Solar System

| Solar Panels | Operating Voltage / Current                                         | Time         | Inspection                                                                 | Remark |
|--------------|---------------------------------------------------------------------|--------------|----------------------------------------------------------------------------|--------|
| String 1     | Panels Voc <u>653.0</u> Vdc Vmp <u>582.7</u> Vdc Isc <u>0.87</u> A. | <u>11:30</u> | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass |        |
| String 2     | Panels Voc <u>652.0</u> Vdc Vmp <u>578.9</u> Vdc Isc <u>0.88</u> A. | :            | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass |        |
| String 3     | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 4     | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 5     | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 6     | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 7     | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 8     | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 9     | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 10    | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 11    | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 12    | Panels Voc _____ Vdc Vmp _____ 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     | Panels Voc <u>641.0</u> Vdc Vmp <u>572.0</u> Vdc Isc <u>1.18</u> A. | <u>12:30</u> | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass |        |
| String 2     | Panels Voc <u>639.0</u> Vdc Vmp <u>560.0</u> Vdc Isc <u>1.15</u> A. | :            | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass |        |
| String 3     | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 4     | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 5     | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 6     | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 7     | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 8     | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 9     | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 10    | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 11    | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |
| String 12    | Panels Voc _____ Vdc Vmp _____ Vdc Isc _____ A.                     | :            | <input type="checkbox"/> Pass <input type="checkbox"/> Not Pass            |        |

### Inverter Inspection

| Device   | Readings from Smarter Meter        | Readings from Inverter Display     | Field Measured Readings            | Remark |
|----------|------------------------------------|------------------------------------|------------------------------------|--------|
| Inverter | AC Line Voltage                    |                                    | AC Line Voltage                    |        |
|          | Phase L1 to Grd : <u>226.6</u> Vac | Phase L1 to Grd : <u>227.1</u> Vac | Phase L1 to Grd : <u>226.2</u> Vac |        |
|          | Phase L2 to Grd : <u>227.1</u> Vac | Phase L2 to Grd : <u>227.3</u> Vac | Phase L2 to Grd : <u>227.0</u> Vac |        |
|          | Phase L3 to Grd : <u>227.5</u> Vac | Phase L3 to Grd : <u>227.3</u> Vac | Phase L3 to Grd : <u>227.7</u> Vac |        |
|          | AC Line Current                    |                                    | AC Line Current                    |        |
|          | Phase L1 to Grd : <u>4.60</u> A    | Phase L1 to Grd : <u>0.50</u> A    | Phase L1 to Grd : <u>2.63</u> A    |        |
|          | Phase L2 to Grd : <u>3.00</u> A    | Phase L2 to Grd : <u>0.50</u> A    | Phase L2 to Grd : <u>2.54</u> A    |        |
|          | Phase L3 to Grd : <u>1.00</u> A    | Phase L3 to Grd : <u>0.50</u> A    | Phase L3 to Grd : <u>2.63</u> A    |        |

Comment : \_\_\_\_\_