



**SriVaru Green Energy**  
Service Private Limited

### Hoto Inspection Report – V47

|               |                                                                         |
|---------------|-------------------------------------------------------------------------|
| Report No     | HIR /2024-25/SVGE/ 058                                                  |
| Date          | 17-06-2024                                                              |
| Inspected By  | Mr. N. Ranjith kumar , Mr. S. Gurusamy                                  |
| Site Operator | Mr. Samuthram and Joint inspected with service staffs of M/s Green Tech |

|              |                                    |          |                   |
|--------------|------------------------------------|----------|-------------------|
| Customer     | <b>M/s Sankar &amp; Associates</b> |          |                   |
| WEG No       | PS674                              | Location | 03                |
| Tower Height | 50 Mtr's                           | HTSC No  | 2931              |
| Capacity     | 600 kW                             | Site     | Sambavarvadakarai |
| Model        | V47, RRB                           | D.O.C    | 30-03-2009        |

## V47 BOTTOM

|          |                                                    |                                              |
|----------|----------------------------------------------------|----------------------------------------------|
| <b>1</b> | <b>EB Customer Yard System</b>                     |                                              |
| 1.1      | Earth Pit slot                                     | Not available                                |
| 1.2      | EB, Customer, Control Room Painting                | Ok                                           |
| 1.3      | EB Side Lightening Arrester (KV)                   | R phase 1 no not available                   |
| 1.4      | Customer Side Lightening Arrester (KV)             | R phase 1 no not available                   |
| 1.5      | EB Side, Customer Side Handle Earth                | Ok                                           |
| 1.6      | All Insulator                                      | Ok                                           |
| 1.7      | EB Meter Glass                                     | Ok                                           |
| 1.8      | EB Side, Customer Side AB switch Working Condition | Ok                                           |
| <b>2</b> | <b>Power Transformer</b>                           |                                              |
| 2.1      | Transformer Oil Level                              | Low, need to be refilled                     |
| 2.2      | Transformer Temperature Gauge                      | Not working                                  |
| 2.3      | Transformer Oil Leakage                            | LV side "R" phase minor oil leakage observed |
| 2.4      | Transformer Breather Silica gel                    | Expired, need to be replaced                 |
| 2.5      | Transformer Termination & Cover Bolt               | Cable insulation melt                        |
| 2.6      | Transformer Earth Plate Connection                 | Ok                                           |
| 2.7      | Transformer Gland & Earth                          | Not available                                |
| <b>3</b> | <b>Safety</b>                                      |                                              |
| 3.1      | Earth Rod – 3No's                                  | 2 no's Earth rod not available               |
| 3.2      | Fire Extinguisher                                  | Ok                                           |
| 3.3      | Fire Bucket Sand – 2 No's With stand               | Ok                                           |
| 3.4      | 33KV Hand Gloves                                   | Not available                                |
| 3.5      | Rubber Mat                                         | Ok                                           |
| 3.6      | Safety Guide Photo                                 | Not available                                |
| 3.7      | First Aid Box                                      | Not available                                |

|          |                                   |                  |
|----------|-----------------------------------|------------------|
| <b>4</b> | <b>Control Room</b>               |                  |
| 4.1      | Tube Light In & Out               | Not working      |
| 4.2      | Light MCB – 2 Pole                | Ok               |
| 4.3      | Room Window Glass                 | Ok               |
| 4.4      | Power Cable Stand Platform        | Ok               |
| <b>5</b> | <b>Ground To Top Cable System</b> |                  |
| 5.1      | 3 Phase Cable 4 Core              | Ok               |
| 5.2      | Auxiliary Cable 5 Core            | Ok               |
| 5.3      | Light Cable 4 Core                | Ok               |
| 5.4      | EMC Cable 10 Core                 | Ok               |
| 5.5      | Earth Cable Top to Bottom         | Ok               |
| 5.6      | Fiber Optic Cable                 | Ok               |
| <b>6</b> | <b>Ground Main Panel System</b>   |                  |
| 6.1      | Watchdog                          | Ok.              |
| 6.2      | Timer                             | Ok               |
| 6.3      | Air To Air 6" Cooler Fan (2 No's) | 1 no not working |
| 6.4      | Stabilizer 2KVA                   | Ok               |
| 6.5      | Capacitor 4" Cooling Fan (2 No's) | Ok               |
| 6.6      | Den Card Surge Arrester           | Ok               |
| 6.7      | 63A Fuse                          | Ok               |
| 6.8      | 2S Relay                          | Ok               |
| 6.9      | 1B Relay                          | Ok               |
| 6.10     | 24V Indication Lamp               | Ok               |
| 6.11     | Thyristor                         | Ok               |
| 6.12     | EH 550 Contactor                  | Ok               |

|          |                                    |         |
|----------|------------------------------------|---------|
| 6.13     | RCC Circuit                        | Ok      |
| 6.14     | Generator Breaker Mechanism        | Damaged |
| 6.15     | Controller Switch Mechanism        | Ok      |
| 6.16     | Gen Cable Termination Ground       | Ok      |
| 6.17     | CT Coil (600/1) – 3No's            | Ok      |
| 6.18     | Panel Door Hinge                   | Ok      |
| 6.19     | Panel Door Lock                    | Ok      |
| 6.20     | 1.5V Processor Cell Box            | Ok      |
| 6.21     | Power Cable PG - Gland             | Ok      |
| 6.22     | 1 A Transformer                    | Ok      |
| 6.23     | EMC Switch                         | Ok      |
| 6.24     | Trip Q8 Test (MENU 13A)            | Ok      |
| <b>7</b> | <b>ACB System</b>                  |         |
| 7.1      | Ammeter                            | Ok      |
| 7.2      | Voltmeter                          | Ok      |
| 7.3      | Ammeter, Voltmeter selector switch | Ok      |
| 7.4      | 230V Indication Lamp (R, Y, B)     | Ok      |
| 7.5      | 25VA Transformer                   | Ok      |
| 7.6      | 350VA Transformer                  | Ok      |
| 7.7      | 2A Glass Fuse & 20A Fuse Holder    | Ok      |
| 7.8      | ACB Safety Acrylic Sheet           | Ok      |
| 7.9      | ACB Current Coil (800/1) (3No's)   | Ok      |
| 7.10     | ACB Termination Cable & Bus pare   | Ok      |
| 7.11     | ACB Handle Rod                     | Ok      |
| 7.12     | ACB Working Condition              | Ok      |

|           |                                                       |                |
|-----------|-------------------------------------------------------|----------------|
| <b>8</b>  | <b>Additional Panel System</b>                        |                |
| 8.1       | 400A MCB Mechanism                                    | Ok             |
| 8.2       | Cooling Fan 4"                                        | Ok             |
| 8.3       | Dust Filter Cover                                     | Ok             |
| 8.4       | Danger Cover                                          | Ok             |
| 8.5       | Door Lock                                             | Ok             |
| <b>9</b>  | <b>Pitch System Checking</b>                          |                |
| 9.1       | Balluff Sensor Value 0.041, 9.853                     | -0.039; +9.843 |
| 9.2       | Hydraulic Pump Holding Time 0 To 200 bar              | Ok             |
| 9.3       | Proportional Valve Holding Time (180 To 200 Bar Time) | 3.4 min        |
| 9.4       | Sine Test                                             | Ok             |
| 9.5       | Pitch Acc Bar                                         | 80 Bar         |
| 9.6       | Alarm Lock Fault Check                                | Ok             |
| <b>10</b> | <b>All Temperature °C</b>                             |                |
| 10.1      | Ambient                                               | 32°C           |
| 10.2      | Gen 1                                                 | 59°C           |
| 10.3      | Nacelle                                               | 41°C           |
| 10.4      | Control                                               | 37°C           |
| 10.5      | Hydraulic                                             | 44°C           |
| 10.6      | Gear Oil                                              | 56°C           |
| 10.7      | Gear Bearing                                          | 49°C           |
| <b>11</b> | <b>Tower system</b>                                   |                |
| 11.1      | Top to bottom all bolts                               | Ok             |
| 11.2      | Tower earth                                           | Ok             |
| 11.3      | Tower vibration                                       | Ok             |

| 12.1 MAIN PANEL CAPACITOR TEST |                  |                  |                  |                  |
|--------------------------------|------------------|------------------|------------------|------------------|
|                                | STEP 1<br>25 X 2 | STEP 2<br>25 X 2 | STEP 3<br>25 X 2 | STEP 4<br>25 X 2 |
| L1 – V 387                     | 36               | 32               | 39               |                  |
| L2 – V 385                     | 35               | 31               | 40               |                  |
| L3 – V 384                     | 36               | 32               | 42               |                  |

Remarks:

1. Main panel 4<sup>th</sup> stage contactor and Fuse not available

| 12.2 ADDITIONAL PANEL CAPACITOR TEST |                  |                  |                |            |
|--------------------------------------|------------------|------------------|----------------|------------|
|                                      | STEP 1<br>25 X 2 | STEP 2<br>25 X 2 | Grid<br>25 X 1 | Additional |
| L1 – V 378                           | 43               | 41               | 15             |            |
| L2 – V 379                           | 41               | 41               | 15             |            |
| L3 – V 378                           | 40               | 40               | 15             |            |

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**GROUND REMARKS:**

1. Power Transformer oil leak and level low, need to be top-up.
2. Power transformer temp. gauge not working
3. Power Transformer R phase LT side oil leakage – To be serviced
4. Power Transformer silica, breather expired
5. Power Transformer terminal side insulation melted.
6. Power Transformer gland not available.
7. All earth pit slap not available.
8. EB and customer side lightning arrester R phase 1 no failed.
9. Earth rod 2 no's not available.
10. Fire bucket stand and bucket not available
11. Safety gloves not available.
12. First aid box not available
13. Outside yard side and tower side light fitting failed, need to be corrected
14. Generator breaker mechanism damaged
15. Air to air cooler 1 no 6" cooling fan failed, need to be taken for service
16. Main panel 4<sup>th</sup> stage contactor and fuse not available.



## V47 TOP

|           |                                     |                                 |
|-----------|-------------------------------------|---------------------------------|
| <b>13</b> | <b>Hydraulic Unit System</b>        |                                 |
| 13.1      | Hydraulic Unit Damper               | Ok                              |
| 13.2      | Hydraulic Motor Bearing Noise       | Ok                              |
| 13.3      | Hydraulic Cooling Fan Leaf & Cover  | Leaf not available              |
| 13.4      | Hydraulic Oil Level                 | Level Low for oil leak          |
| 13.5      | Hydraulic Oil Condition             | Ok                              |
| 13.6      | Oil Level Sensor CT3218 – 3 Led     | Ok                              |
| 13.7      | Hydraulic Oil Leakage               | Manifold joint portion oil leak |
| 13.8      | Pitch Cylinder Oil Leakage          | Ok                              |
| 13.9      | Balluff Sensor Safety Cover         | Ok                              |
| 13.10     | 17 Bar Pressure Switch              | Ok                              |
| 13.11     | 10 Bar Pressure Switch              | Ok                              |
| 13.12     | Pitch & Brake Pressure Relief valve | Ok                              |
| 13.13     | Hydraulic Motor Cable               | Ok                              |
| 13.14     | Hydraulic Hose A                    | Ok                              |
| 13.15     | Hydraulic Hose B                    | Ok                              |
| 13.16     | Hydraulic Hose C                    | Ok                              |
| 13.17     | Hydraulic Hose D                    | Ok                              |
| 13.18     | Hydraulic Dummy Hose & Adapter      | Ok                              |
| 13.19     | Hydraulic Hose Laying Sandwich      | Ok                              |
| 13.20     | Pitch Cylinder Safety Cover         | Ok                              |
| 13.21     | Brake Accumulator                   | Ok                              |
| <b>14</b> | <b>Gear Box System</b>              |                                 |
| 14.1      | Gear Oil Level                      | Ok                              |
| 14.2      | Gear Oil Condition                  | Ok                              |
| 14.3      | Air Filter                          | Ok                              |
| 14.4      | Gear Oil Filter                     | Ok                              |



|           |                                                 |    |
|-----------|-------------------------------------------------|----|
| 14.5      | Gear Box Magnetic Rod                           | Ok |
| 14.6      | Gear Box Manifold Oil Leakage                   | Ok |
| 14.7      | Radiator Oil Leakage                            | Ok |
| 14.8      | Gear Oil Hose L                                 | Ok |
| 14.9      | Gear Oil Hose S                                 | Ok |
| 14.10     | Gear Box Noise                                  | Ok |
| 14.11     | Gear Stay Function                              | Ok |
| 14.12     | Low Speed Oil Seal                              | Ok |
| 14.13     | Hallow Shaft Cover Crack                        | Ok |
| 14.14     | Low Gear Oil Switch CT 3133 – 6<br>Led (750RPM) | Ok |
| 14.15     | Pitch Bearing                                   | Ok |
| 14.16     | Gear oil leakage                                | Ok |
| 14.17     | Gear box 'I' Hook                               | Ok |
| <b>15</b> | <b>Yawing System</b>                            |    |
| 15.1      | Yaw Motor Cable                                 | Ok |
| 15.2      | Yaw Motor Leaf & Cover                          | Ok |
| 15.3      | Warm Gear Noise & Bearing                       | Ok |
| 15.4      | Warm Gear Oil Level                             | Ok |
| 15.5      | Warm Gear Oil Leakage                           | Ok |
| 15.6      | Yaw Top Teeth                                   | Ok |
| 15.7      | Yaw Top Safety Cover (Aluminum)                 | Ok |
| 15.8      | Yaw Stopper Block M16                           | Ok |
| 15.9      | Yaw Top Bed Bolt                                | Ok |

|           |                                                              |                                                 |
|-----------|--------------------------------------------------------------|-------------------------------------------------|
| <b>16</b> | <b>Generator System</b>                                      |                                                 |
| 16.1      | Gen Bearing Noise                                            | Ok                                              |
| 16.2      | Gen Cooling Fan Leaf                                         | Damaged                                         |
| 16.3      | Gen Damper                                                   | Ok                                              |
| 16.4      | Gen Termination                                              | Terminal cover bolt 1 no broken                 |
| 16.5      | Gen Cable Gland                                              | Ok                                              |
| 16.6      | Gen Cable Clamp & Plate                                      | Ok                                              |
| 16.7      | Gen Nipple                                                   | Ok                                              |
| 16.8      | Gen Bed Earth                                                | Ok                                              |
| 16.9      | Gen, I Hook                                                  | Ok                                              |
| <b>17</b> | <b>Brake System</b>                                          |                                                 |
| 17.1      | Brake Pad Thickness                                          | 3 mm need to be changed single sensor available |
| 17.2      | Brake Pad Bypass Box - 4 (1-2)                               | Ok                                              |
| 17.3      | Brake Pad Signal - 3 Set<br>(GeneratorSide or Gear Box Side) | Single pad connection                           |
| 17.4      | Brake Caliber – 3No's                                        | Ok                                              |
| 17.5      | Brake Caliber Metal Hose                                     | Ok                                              |
| 17.6      | Brake Disc Thickness                                         | Ok                                              |
| 17.7      | Brake disc heat absorb                                       | Ok                                              |
| 17.8      | Brake Disc Cover Top and Bottom                              | Ok                                              |
| 17.9      | CD Coupling Disc                                             | Ok                                              |
| 17.10     | CD Coupling Cover                                            | Ok                                              |
| 17.11     | Fire Safety Sheet                                            | Not available                                   |
| 17.12     | CD Coupling Noise                                            | Ok                                              |

|           |                                                 |                                |
|-----------|-------------------------------------------------|--------------------------------|
| <b>18</b> | <b>Battery Box System</b>                       |                                |
| 18.1      | 12V Battery                                     | Ok                             |
| 18.2      | 24V Charger                                     | Ok                             |
| 18.3      | Box 230V Cable                                  | Ok                             |
| 18.4      | Box 8 Core 24V Cable                            | Ok                             |
| 18.5      | Timer Make                                      | Omron                          |
| 18.6      | Battery Box Cover                               | Ok                             |
| 18.7      | Top Panel Loop Check<br>(95-21) (21-12) (11-31) | Ok                             |
| 18.8      | Soft Brake Working                              | Ok                             |
| 18.9      | Soft Brake Modification                         | Ok                             |
| 18.20     | 2S Relay Make                                   | Omron RY4S relay               |
| <b>19</b> | <b>Nacelle Light System</b>                     |                                |
| 19.1      | 16 A Switch Box                                 | Damage                         |
| 19.2      | Top, Front & Back Tube Light                    | Main bearing tube light failed |
| 19.3      | Tube Light Cable                                | Ok                             |
| <b>20</b> | <b>Top Panel System</b>                         |                                |
| 20.1      | Contactor Yaw CW                                | Ok                             |
| 20.2      | Contactor Yaw CCW                               | Ok                             |
| 20.3      | Contactor Hydraulic                             | Ok                             |
| 20.4      | Contactor Low speed                             | Ok                             |
| 20.5      | Contactor High Speed                            | Ok                             |
| 20.6      | Contactor Exhaust Fan                           | Ok                             |
| 20.7      | Thermal Relay Yaw CW                            | Ok                             |
| 20.8      | Thermal Relay Yaw CCW                           | Ok                             |
| 20.9      | Thermal Relay Hydraulic                         | Ok                             |

|           |                                   |                                          |
|-----------|-----------------------------------|------------------------------------------|
| 20.10     | Thermal Relay Low Speed           | Ok                                       |
| 20.11     | Thermal Relay High Speed          | Ok                                       |
| 20.12     | Thermal Relay Exhaust Fan         | Ok                                       |
| 20.13     | 2S Relay                          | Ok                                       |
| 20.14     | 1B Relay                          | Ok                                       |
| 20.15     | VOG CT279                         | Not available, circuit bypass            |
| 20.16     | Top Panel Cooling Fan             | Ok                                       |
| 20.17     | Main Bearing Emergency Button     | Ok                                       |
| 20.18     | Top Panel Emergency Button        | Ok                                       |
| 20.19     | Yaw Top Emergency Button          | Ok                                       |
| 20.20     | Top Panel Door                    | Ok                                       |
| 20.21     | Top Panel Door Hinge              | Ok                                       |
| 20.22     | Top Panel Damper                  | Ok                                       |
| 20.23     | Top Panel stand clamp             | Ok                                       |
| 20.24     | SMPS                              | Ok                                       |
| 20.25     | 1.5V Processor Cell Box           | Ok                                       |
| 20.26     | Rectifier                         | 1 no used                                |
| 20.27     | Trip Q8 Switch Working            | Ok                                       |
| <b>21</b> | <b>Main Shaft System</b>          |                                          |
| 21.1      | Main Bearing Noise & Play         | Ok                                       |
| 21.2      | Main Bearing Grease Leakage       | Front and rear grease leakage observed   |
| 21.3      | Main Bearing Front and Back Cover | Cover bolt M12 X 50 2 no's not available |
| 21.4      | Rotor Sensor                      | Ok                                       |
| 21.5      | VOG Sensor                        | Ok                                       |

|           |                                          |                                |
|-----------|------------------------------------------|--------------------------------|
| 21.6      | Generator sensor                         | Ok                             |
| 21.7      | Main Bearing 24V Junction Box            | Ok                             |
| 21.8      | Air Breather                             | Ok                             |
| 21.9      | Nipple Main Bearing                      | Ok                             |
| <b>22</b> | <b>Blade System</b>                      |                                |
| 22.1      | Blade Crack                              | Ok                             |
| 22.2      | Blade Arm Bearing                        | Ok                             |
| 22.3      | Blade Bearing Play                       | Ok                             |
| 22.4      | Blade Inspection Closing Cover- 3        | Ok                             |
| 22.5      | Pitch Shaft Sliding shoe                 | Ok                             |
| 22.6      | Pitch Bolt M12 (8 No's)                  | Ok                             |
| 22.7      | Blade Flop Cover                         | 1 no not available             |
| 22.8      | Hub Entrance Door                        | 2 no's door lock not available |
| 22.9      | Blade Breather                           | Ok                             |
| 22.10     | Nose Cone Crack                          | Ok                             |
| 22.11     | Nose Cone 'L' Clamp                      | Ok                             |
| 22.12     | Nose Cone Zig Door                       | Ok                             |
| 22.13     | Nose cone Ring U Clamp                   | Ok                             |
| 22.14     | Blade Lip Seal Grease Leakage in and out | Inner damaged                  |
| 22.15     | Blade Safety Lock Block                  | Ok                             |
| <b>23</b> | <b>Gear Oil Cooler Motor System</b>      |                                |
| 23.1      | Motor Bearing Noise                      | Ok                             |
| 23.2      | Cooler Motor Leaf Cover                  | Ok                             |
| 23.3      | Motor Cable Slow                         | Ok                             |

|           |                                                                                         |                     |
|-----------|-----------------------------------------------------------------------------------------|---------------------|
| 23.4      | Motor Cable High                                                                        | Ok                  |
| 23.5      | Air Duct Cover                                                                          | Ok                  |
| 23.6      | Cooler Motor Bed Stand                                                                  | Ok                  |
| 23.7      | Big Leaf                                                                                | Ok                  |
| <b>24</b> | <b>Power Cable Twisting</b>                                                             |                     |
| 24.1      | Twist Sensor                                                                            | Ok                  |
| 24.2      | Power Cable Twist                                                                       | Ok                  |
| 24.3      | Cable Round Ring                                                                        | Ok                  |
| 24.4      |  Clamp | Ok                  |
| 24.5      | Bottom to Top cable laying                                                              | Ok                  |
| 24.6      | Nacelle Platform Cable Holding Sandwich                                                 | Ok                  |
| 24.7      | Power Cable Insulation                                                                  | Ok                  |
| 24.8      | Nacelle Platform Small Cable Lock Clamp                                                 | Ok                  |
| <b>25</b> | <b>Hoist System</b>                                                                     |                     |
| 25.1      | Remote Function                                                                         | Not available       |
| 25.2      | Hoist 230v Box                                                                          | Motor not available |
| 25.3      | Chain Bag & Clamp                                                                       | Not available       |
| 25.4      | Chain Hook                                                                              | Ok                  |
| 25.5      | Hoist Noise                                                                             | Not function        |
| 25.6      | Hoist 230v Cable                                                                        | Ok                  |
| 25.7      | Hoist Chain Block                                                                       | Ok                  |
| 25.8      | Safety Chain & Lock Hook                                                                | Not available       |
| 25.9      | Hoist make                                                                              | Star lift kit       |
| <b>26</b> | <b>Anemometer</b>                                                                       |                     |
| 26.1      | Anemometer Bearing                                                                      | Ok                  |
| 26.2      | Anemometer Cup, Holder & Cable                                                          | Ok                  |

|           |                                      |                           |
|-----------|--------------------------------------|---------------------------|
| 26.3      | stand                                | Ok                        |
| <b>27</b> | <b>Wind vane System</b>              |                           |
| 27.1      | Wind vane Bearing                    | Ok                        |
| 27.2      | Wind vane Holder & Cable             | Ok                        |
| 27.3      | Wind vane Cap Nut                    | Ok                        |
| <b>28</b> | <b>Nacelle Door System</b>           |                           |
| 28.1      | Nacelle Cover Crack                  | Ok                        |
| 28.2      | Nacelle Back Door                    | Ok                        |
| 28.3      | Nacelle Sky Window Top               | Ok                        |
| 28.4      | Nacelle Lightning Spike              | Ok                        |
| 28.5      | Lightning Spike Earth                | Ok                        |
| 28.6      | Nacelle damper Front & back          | Back side 2 no failed     |
| 28.7      | Vibration Sensor                     | Rod bend, to be corrected |
| 28.8      | Nacelle Platform Steel Door          | Ok                        |
| 28.9      | Nacelle Platform Ladder              | Ok                        |
| 28.10     | Nacelle Cover Damper                 | Ok                        |
| <b>29</b> | <b>Exhaust Fan System</b>            |                           |
| 29.1      | Motor Bearing Noise                  | Ok                        |
| 29.2      | Fan Leaf & Cover                     | Ok                        |
| 29.3      | Bush, Waser & Bolt                   | Ok                        |
| 29.4      | Motor Cable                          | Ok                        |
| 29.5      | Big Fan Leaf                         | Ok                        |
| <b>30</b> | <b>Rotor And Blade Safety System</b> |                           |
| 30.1      | Rotor Lock Bush - 4                  | Ok                        |
| 30.2      | Rotor Lock Hide Pin -4               | 2 no's not available      |

|           |                                                                         |                      |
|-----------|-------------------------------------------------------------------------|----------------------|
| 30.3      | Rotor Big Plate -1                                                      | Ok                   |
| 30.4      | Rotor Small Plate -1                                                    | Ok                   |
| 30.5      | 86 Rocket - 3                                                           | 1 no not available   |
| 30.6      | 86 Thread Rod - 3                                                       | 2 no's Not available |
| 30.7      | washer -3, Nut -3                                                       | Not available        |
| 30.8      | Grease Tray - 3                                                         | 1 no not available   |
| 30.9      | Disc Lock Bolt -1                                                       | Not available        |
| <b>31</b> | <b>Gear Box inner components</b>                                        |                      |
| 31.1      | Gear bearing High speed Play                                            | Ok                   |
| 31.2      | Gear bearing Low speed Play                                             | Ok                   |
| 31.3      | Check gear box body damages                                             | Ok                   |
| 31.4      | Check in side of Gear box                                               | Ok                   |
| 31.5      | Gear teeth @ low speed                                                  | Ok                   |
| 31.6      | Gear teeth @ high speed                                                 | Ok                   |
| 31.7      | Gear teeth @ intermediate                                               | Ok                   |
| 31.8      | Gear intermediate pinion                                                | Ok                   |
| 31.9      | Planetary gear                                                          | Ok                   |
| 31.10     | Gear Pump oil circulation                                               | Ok                   |
| <b>32</b> | <b>Blade Bearing</b>                                                    |                      |
| 32.1      | Every 5 <sup>th</sup> blade bearing bolts M20 to be check out of 60No's | Ok                   |
| 32.2      | Blade Vertical play to be checked                                       | Ok                   |
| 32.3      | Blade horizontal play to be checked                                     | Ok                   |
| <b>33</b> | <b>Transformer and generator</b>                                        |                      |
| 33.1      | Necessary to check Transformer terminal box                             | Ok                   |
| 33.2      | Necessary to check Generator terminal box                               | Ok                   |




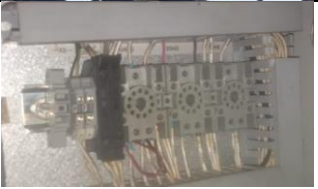




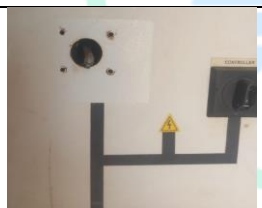

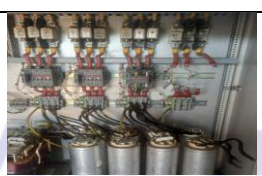
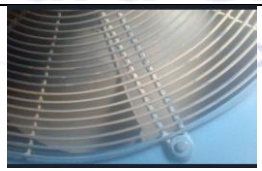



**TOP REMARKS:**

1. Break pad 3 mm only, need to be replaced immediately.
2. Hyd. oil level low, recommend to refill.
3. Generator cooling leaf damaged.
4. Generator terminal cover bolt 1 no damaged.
5. 16A switch box damaged.
6. Fire safety sheet not available.
7. CT279 VOG not available.
8. Main bearing side tube light fitting failed.
9. Main bearing front and rear rotor safety cover bolt M12X50 – 2 nos not available.
10. Blade inner side grease leakage observed.
11. Rectifier 1 no failed, SMPS used.
12. Crane pendent control not available.
13. Crane motor not available.
14. Safety chain not available.
15. Chain bag not available.
16. Nacelle vibration damper 2 nos failed.
17. Vibration sensor rod.
18. Rotor lock pin 2 nos not available.
19. 86 rocket 1 no not available.
20. 86 Thread rod 2 no not available.
21. Grease tray 1 nos not available.
22. Looping to balcony ring sandwich cable dressing work carried out.
23. Nacelle right side sound insulation damaged.



**SriVaru Green Energy**  
Service Private Limited

| Sl.No. | Observation details as of WEG Ltd inspection                                | Photos showing remarks/ Witness                                                     | Sl.No. | Observation details as of WEG Ltd inspection     | Photos showing remarks/ Witness                                                       |
|--------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|--------------------------------------------------|---------------------------------------------------------------------------------------|
| 1      | Break pad 3 mm only, need to be replaced immediately                        |    | 9      | Power Cable Twist need to be corrected (untwist) |    |
| 2      | Looping to top cable dressing to be done                                    |    | 10     | VOG not available, circuit bypassed.             |    |
| 3      | Nacelle vibration damper 2 nos failed                                       |    | 11     | Hyd. Oil leak and level low                      |    |
| 4      | Outside yard side and tower side light fitting failed, need to be corrected |   | 12     | Manifold joint portion oil leak                  |   |
| 5      | Generator breaker mechanism damaged                                         |  | 13     | Main Bearing Grease Leakage                      |  |
| 6      | Main panel 4 <sup>th</sup> stage contactor and fuse not available.          |  |        |                                                  |                                                                                       |
| 7      | Gen Cooling Fan Leaf damaged condition                                      |  |        |                                                  |                                                                                       |
| 8      | Crane motor not available                                                   |  |        |                                                  |                                                                                       |

#### **Conclusion:**

In general, various missing components and un-repairable failed components have to be replaced along with the repair / servicing of various defective parts identified in the inspection. It appears that proper preventive maintenance and immediate attention to various issues has to be addressed.