

Hoto Inspection Report – V27

Report No:	HIR/24/ SVGE/043
Date:	13-04-2024
Inspected By:	Mr. RANJITH KUMAR, Abdulla
Site Operator:	Mr. Veeraselvam

Turbine Details

Customer	M/S Kongunadu Air Product (P) LTD		
WEG No	1769	Location	01
Tower Height	50 Meters	HTSC No	039214391229
Capacity	225 kW	Site	Elavanthi
Model	Vestas V27	D.O.C	13.03.2008

V27 BOTTOM

1	EB Customer Yard System	
1.1	Earth Pit slot	Chamber cove 5 nos not available
1.2	EB, Customer, Control Room Painting	Painting work to be carried
1.3	EB Side Lightning Arrester (KV)	R, B Failed
1.4	Customer Side Lightning Arrester (KV)	R, B Failed
1.5	EB Side, Customer Side Handle Earth	Not available
1.6	All Insulator	Not available
1.7	EB Meter Glass	Damaged
1.8	EB Side, Customer Side AB switch Working Condition	Customer side not open, to be knife alignment work
2	Safety	
2.1	Earth Rod -3 Nos	N <mark>o</mark> t available
2.2	Fire Extinguisher	14/10/23 to 13/10/24
2.3	Fire Bucket Sand – 2 nos With Stand	Ok
2.4	33KV Hand Gloves	Not available
2.5	Rubber Mat	Ok
2.6	Safety Guide Photo	Ok
2.7	First Aid Box	Not available
3	Power Transformer	
3.1	Transformer Oil Level Service Pr	ok Limited
3.2	Transformer Temperature Gauge	Ok
3.3	Transformer Oil Leakage	Ok
3.4	Transformer Breather Silica gel	Ok
3.5	Transformer Termination & Cover Bolt	4 nos not available
3.6	Transformer Earth Plate Connection	Ok
3.7	Transformer Gland & Earth Connection	Ok

4	Control Room		
4.1	Tube Light In & Out	Failed	
4.2	Light MCB - 2 Pole	Ok	
4.3	Room Window Glass	Ok	
4.4	Power Cable Stand Platform	Ok	
5	Ground To Top Cable System		
5.1	3 Phase Cable 4 Core	Ok	
5.2	Auxiliary Cable 5 Core	Ok	
5.3	Light Cable 4 Core	1 core failed	
5.4	EMC Cable 8 Core	Ok	
5.5	Earth Cable Top to Bottom	Ok	
5.6	Fiber Optic Cable	Ok	
6	Ground Main Panel System		
6.1	Watchdog	Not available, circuit bypass	
6.2	Timer	Ok	
6.3	Air To Air 4" Cooler Fan (2 No's)	Not available	
6.4	Stabilizer 2KVA	Ok	
6.5	Dhen Card Surge Arrester	oken Energy	
6.6	63A Fuse Service Pr	okite Limited	
6.7	2S Relay	Ok	
6.8	1B Relay	Ok	
6.9	24V Indication Lamp	Failed	
6.10	Thyristor	Ok	
6.11	EH 250 Contactors	Ok	
6.12	HPL 330 Contactors	Ok	

Mail Id: selvaraj@srivarugreenenergy.com

6.13 RCC Circuit 6.14 Generator Breaker Mechanism 6.15 Controller Switch Mechanism 6.16 Gen Cable Termination Ground 6.17 CT Coil 6.18 Panel Door Hinge 6.19 Panel Door Lock 6.20 1.5V Processor Cell Box 6.21 Power Cable PG – Gland 6.22 Gen 2 contactor 6.23 Gen 2 MCB 6.24 24V Auxiliary DC contactor 6.25 1A Transformer 6.26 EMC Switch 7 MCCB System 7.1 Ammeter 7.3 Ammeter, Voltmeter selector switch 7.4 230V Indication Lamp (R, Y, B) 7.5 MCCB Safety Acrylic Sheet 7.6 MCCB Carrent Coil (3No's) Not available 7.9 MCCB Carrent Coil (3No's) Ok 7 MCCB Cable Termination Ok Not available 7.9 MCCB Cable Termination Ok MCCB More Condition Ok MCCB More Condition Ok MCCB Cable Termination Ok MCCB Cable Termination Ok MCCB More Condition Ok MCCB More Cable Termination Ok MCCB MCCB Condition Ok MCCB More Cable Termination Ok MCCB MCCB More Condition Ok MCCB MCCB More Condition			
6.15 Controller Switch Mechanism Handle damaged 6.16 Gen Cable Termination Ground Ok 6.17 CT Coil Ok 6.18 Panel Door Hinge Ok 6.19 Panel Door Lock Ok 6.20 1.5V Processor Cell Box Damaged 6.21 Power Cable PG – Gland PG 21-2 no's & PG 13.5 -6 no's 6.22 Gen 2 contactor OK 6.23 Gen 2 MCB OK 6.24 24V Auxiliary DC contactor OK 6.25 1A Transformer Ok 6.26 EMC Switch OK 7 MCCB System 7.1 Ammeter Failed 7.2 Voltmeter Failed 7.3 Ammeter, Voltmeter selector switch Failed 7.4 230V Indication Lamp (R, Y, B) Ok 7.7 2A Glass Fuse & 20A Holder Ok 7.8 MCCB Safety Acrylic Sheet Not available 7.9 MCCB Current Coil (3No's) Ok 7.10 MCCB Cable Termination Ok 7.11 MCCB Cable Termination Ok 7.11 MCCB Cable Termination Ok	6.13	RCC Circuit	Ok
6.16 Gen Cable Termination Ground Ok 6.17 CT Coil Ok 6.18 Panel Door Hinge Ok 6.19 Panel Door Lock Ok 6.20 1.5V Processor Cell Box Damaged 6.21 Power Cable PG – Gland PG 21-2 no's & PG 13.5 -6 no's 6.22 Gen 2 contactor Ok 6.23 Gen 2 MCB OK 6.24 24V Auxiliary DC contactor OK 6.25 1A Transformer Ok 6.26 EMC Switch OK 7 MCCB System 7.1 Ammeter Failed 7.2 Voltmeter Failed 7.3 Ammeter, Voltmeter selector switch Failed 7.4 230V Indication Lamp (R, Y, B) Ok 7.7 2A Glass Fuse & 20A Holder Ok 7.8 MCCB Safety Acrylic Sheet Not available 7.9 MCCB Current Coll (3No's) Ok 7.10 MCCB Cable Termination Ok	6.14	Generator Breaker Mechanism	Not available
6.17 CT Coil Ok 6.18 Panel Door Hinge Ok 6.19 Panel Door Lock Ok 6.20 1.5V Processor Cell Box Damaged 6.21 Power Cable PG – Gland PG 21-2 no's & PG 13.5 -6 no's 6.22 Gen 2 contactor OK 6.23 Gen 2 MCB OK 6.24 24V Auxillary DC contactor OK 6.25 1A Transformer Ok 6.26 EMC Switch OK 7 MCCB System 7.1 Ammeter Failed 7.2 Voltmeter Failed 7.3 Ammeter, Voltmeter selector switch Failed 7.4 230V Indication Lamp (R, Y, B) Ok 7.7 2A Glass Fuse & 20A Holder Ok 7.8 MCCB Safety Acrylic Sheet Not available 7.9 MCCB Current Coil (3No's) Ok 7.10 MCCB Cable Termination Ok	6.15	Controller Switch Mechanism	Handle damaged
6.18 Panel Door Hinge Ok 6.19 Panel Door Lock Ok 6.20 1.5V Processor Cell Box Damaged 6.21 Power Cable PG – Gland PG 21-2 no's & PG 13.5 - 6 no's 6.22 Gen 2 contactor OK 6.23 Gen 2 MCB OK 6.24 24V Auxiliary DC contactor OK 6.25 1A Transformer OK 6.26 EMC Switch OK 7 MCCB System 7.1 Ammeter Failed 7.2 Voltmeter Failed 7.3 Ammeter, Voltmeter selector switch Failed 7.4 230V Indication Lamp (R, Y, B) Ok 7.7 2A Glass Fuse & 20A Holder Ok 7.8 MCCB Safety Acrylic Sheet Not available 7.9 MCCB Current Coil (3No's) Ok 7.10 MCCB Cable Termination Ok	6.16	Gen Cable Termination Ground	Ok
6.19 Panel Door Lock Ok 6.20 1.5V Processor Cell Box Damaged 6.21 Power Cable PG – Gland PG 21-2 no's & PG 13.5 - 6 no's 6.22 Gen 2 contactor OK 6.23 Gen 2 MCB OK 6.24 24V Auxiliary DC contactor OK 6.25 1A Transformer OK 6.26 EMC Switch OK 7 MCCB System 7.1 Ammeter Failed 7.2 Voltmeter Failed 7.3 Ammeter, Voltmeter selector switch Failed 7.4 230V Indication Lamp (R, Y, B) OK 7.7 2A Glass Fuse & 20A Holder OK 7.8 MCCB Safety Acrylic Sheet Not available 7.9 MCCB Current Coil (3No's) OK 7.10 MCCB Cable Termination OK 7.11 MCCB Cable Termination OK	6.17	CT Coil	Ok
6.20 1.5V Processor Cell Box Damaged 6.21 Power Cable PG – Gland PG 21-2 no's & PG 13.5 -6 no's 6.22 Gen 2 contactor OK 6.23 Gen 2 MCB OK 6.24 24V Auxiliary DC contactor OK 6.25 1A Transformer Ok 6.26 EMC Switch OK 7 MCCB System 7.1 Ammeter Failed 7.2 Voltmeter Failed 7.3 Ammeter, Voltmeter selector switch Failed 7.4 230V Indication Lamp (R, Y, B) Ok 7.7 2A Glass Fuse & 20A Holder Ok 7.8 MCCB Safety Acrylic Sheet Not available 7.9 MCCB Current Coil (3No's) Ok 7.10 MCCB Cable Termination Ok	6.18	Panel Door Hinge	Ok
6.21 Power Cable PG – Gland PG 21-2 no's & PG 13.5 -6 no's 6.22 Gen 2 contactor OK 6.23 Gen 2 MCB OK 6.24 24V Auxiliary DC contactor OK 6.25 1A Transformer Ok 7 MCCB System 7.1 Ammeter Failed 7.2 Voltmeter 7.3 Ammeter, Voltmeter selector switch Failed 7.4 230V Indication Lamp (R, Y, B) Ok 7.7 2A Glass Fuse & 20A Holder Ok MCCB Safety Acrylic Sheet Not available 7.9 MCCB Current Coil (3No's) Ok 7.10 MCCB Cable Termination Ok MCCB Cable Termination Ok MCCB MCCB Working Condition	6.19	Panel Door Lock	Ok
6.22 Gen 2 contactor 6.23 Gen 2 MCB 6.24 24V Auxiliary DC contactor 6.25 1A Transformer 6.26 EMC Switch 7 MCCB System 7.1 Ammeter 7.2 Voltmeter 7.3 Ammeter, Voltmeter selector switch 7.4 230V Indication Lamp (R, Y, B) 7.7 2A Glass Fuse & 20A Holder 7.8 MCCB Safety Acrylic Sheet 7.9 MCCB Cable Termination 7.10 MCCB Cable Termination 7.1 OKCB Cable Termination 7.1 OKCB MCCB Cable Termination 7.2 OK 7.3 OK 7.4 OK 7.5 OK 7.6 OK 7.7 OK 7.8 MCCB Cable Termination 7.9 OK 7.10 MCCB Cable Termination 7.10 OK 7.10 MCCB Cable Termination 7.11 OK 7.12 OK 7.13 OK 7.14 OK 7.15 OK 7.16 OK 7.17 OK 7.18 OK 7.19 OK 7.10 MCCB Cable Termination 7.10 OK 7.10 MCCB Cable Termination 7.10 OK 7.10 O	6.20	1.5V Processor Cell Box	Damaged
6.23 Gen 2 MCB 6.24 24V Auxiliary DC contactor 6.25 1A Transformer Ok 6.26 EMC Switch OK 7 MCCB System 7.1 Ammeter 7.2 Voltmeter 7.3 Ammeter, Voltmeter selector switch 7.4 230V Indication Lamp (R, Y, B) Ok 7.7 2A Glass Fuse & 20A Holder Ok Not available 7.9 MCCB Carpent Coil (3No's) Ok 7.10 MCCB Cable Termination Ok	6.21	Power Cable PG – Gland	PG 21-2 no's & PG 13.5 -6 no's
6.24 24V Auxiliary DC contactor 6.25 1A Transformer Ok 6.26 EMC Switch OK 7 MCCB System 7.1 Ammeter Failed 7.2 Voltmeter Failed 7.3 Ammeter, Voltmeter selector switch 7.4 230V Indication Lamp (R, Y, B) Ok 7.7 2A Glass Fuse & 20A Holder Ok Not available 7.9 MCCB Current Coil (3No's) Ok 7.10 MCCB Cable Termination OK	6.22	Gen 2 contactor	ОК
6.25 1A Transformer Ok 6.26 EMC Switch OK 7 MCCB System 7.1 Ammeter Failed 7.2 Voltmeter Failed 7.3 Ammeter, Voltmeter selector switch Failed Ok 7.4 230V Indication Lamp (R, Y, B) Ok 7.7 2A Glass Fuse & 20A Holder Ok 7.8 MCCB Safety Acrylic Sheet Not available 7.9 MCCB Current Coil (3No's) Ok 7.10 MCCB Cable Termination Ok	6.23	Gen 2 MCB	ОК
6.26 EMC Switch 7 MCCB System 7.1 Ammeter Failed 7.2 Voltmeter Failed 7.3 Ammeter, Voltmeter selector switch Failed 7.4 230V Indication Lamp (R, Y, B) Ok 7.7 2A Glass Fuse & 20A Holder Ok Not available 7.9 MCCB Safety Acrylic Sheet Not available 7.10 MCCB Cable Termination Ok Ok	6.24	24V Auxiliary DC contactor	ок
7.1 Ammeter Failed 7.2 Voltmeter Failed 7.3 Ammeter, Voltmeter selector switch Failed 7.4 230V Indication Lamp (R, Y, B) Ok 7.7 2A Glass Fuse & 20A Holder Ok 7.8 MCCB Safety Acrylic Sheet Not available 7.9 MCCB Current Coil (3No's) Ok 7.10 MCCB Cable Termination Ok	6.25	1A Transformer	Ok
7.1 Ammeter Failed 7.2 Voltmeter Failed 7.3 Ammeter, Voltmeter selector switch Failed 7.4 230V Indication Lamp (R, Y, B) 7.7 2A Glass Fuse & 20A Holder 7.8 MCCB Safety Acrylic Sheet 7.9 MCCB Current Coil (3No's) 7.10 MCCB Cable Termination 7.13 MCCB Working Condition	6.26	EMC Switch	ОК
7.2 Voltmeter Failed 7.3 Ammeter, Voltmeter selector switch 7.4 230V Indication Lamp (R, Y, B) 7.7 2A Glass Fuse & 20A Holder 7.8 MCCB Safety Acrylic Sheet 7.9 MCCB Current Coil (3No's) 7.10 MCCB Cable Termination 7.12 MCCB Working Condition	7	MCCB System	
7.3 Ammeter, Voltmeter selector switch Failed 7.4 230V Indication Lamp (R, Y, B) Ok 7.7 2A Glass Fuse & 20A Holder Ok 7.8 MCCB Safety Acrylic Sheet Not available 7.9 MCCB Current Coil (3No's) Ok 7.10 MCCB Cable Termination Ok	7.1	Ammeter	Failed
7.4 230V Indication Lamp (R, Y, B) Ok 7.7 2A Glass Fuse & 20A Holder Ok 7.8 MCCB Safety Acrylic Sheet Not available 7.9 MCCB Current Coil (3No's) Ok 7.10 MCCB Cable Termination Ok	7.2	Voltmeter	Failed n Energy
7.7 2A Glass Fuse & 20A Holder Ok 7.8 MCCB Safety Acrylic Sheet Not available 7.9 MCCB Current Coil (3No's) Ok 7.10 MCCB Cable Termination Ok Ok	7.3	Ammeter, Voltmeter selector switch	failede Limited
7.8 MCCB Safety Acrylic Sheet Not available 7.9 MCCB Current Coil (3No's) Ok 7.10 MCCB Cable Termination Ok Ok	7.4	230V Indication Lamp (R, Y, B)	Ok
7.9 MCCB Current Coil (3No's) Ok 7.10 MCCB Cable Termination Ok	7.7	2A Glass Fuse & 20A Holder	Ok
7.10 MCCB Cable Termination Ok Ok	7.8	MCCB Safety Acrylic Sheet	Not available
7.12 MCCP Working Condition	7.9	MCCB Current Coil (3No's)	Ok
7.12 MCCB Working Condition Ok	7.10	MCCB Cable Termination	Ok
	7.12	MCCB Working Condition	Ok

7.13	MCCB Door	Ok
8	Additional Panel System	
8.1	200A MCB Mechanism	not available
8.2	Cooling Fan 4"	1 no need
8.3	Dust Filter Cover	Ok
8.4	Danger Cover	Ok
8.5	Door Lock	Ok
8.6	Controller Display Working	Ok
9	Pitch System Checking	
9.1	Balluff Sensor Value 0.041, 9.968	0.027, 9.970
9.2	Hydraulic Pump Holding Time 0 To 90 bar	2 <mark>1</mark> sec
9.3	proportional Valve Hol <mark>d</mark> ing Time (75 To 90 Bar Time)	255 sec
9.4	Sine Test	Ok
9.5	Pitch Acc Bar	26
9.6	Contactor test	Ok
Pitc	h control card value	
9.7	9 – (0.05)	0.076
9.8	10 – (-0.05)	o.ooo n Energy
9.9	11 – (8.500) Service Pr	7.874 Elmited
9.10	12 – (-9.50)	-9.031
10	All Temperature ⁰ c	
10.1	Ambient	36
10.2	Gen 1	51
10.3	Hydraulic	47
10.4	Nacelle	36

Mail Id: selvaraj@srivarugreenenergy.com

10.5	Gear Oil	44
10.6	Gen 2	47
11	Tower system	
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	STEP 1	STEP 2	
	12.5 X 6	12.5 X 3	12.5 X	
L1 – V 223	28	28	34	
L2 – V 220	27	27	34	
L3 – V 220	27	27	35	

12.2 ADDITIONAL PA	12.2 ADDITIONAL PANEL CAPACITOR TEST				
S	STEP 1 12.5 X 2	STEP 2 12.5 X 2	Grid 12.5 X2	Additional	
L1 - V	15Service	ce Prigate Li	mit 15d 8		
L2 - V	10	19	15 8		
L3 - V	11	19	15 8		

Mobile: +918015200475, +919025073814 Mail Id: selvaraj@srivarugreenenergy.com

GROUND REMARKS

- 1. Control room outer side light failed.
- 2. Bottom to top light cable 1 core failed.
- 3. CT 217 Watchdog failed. Circuit bypass.
- 4. 24V DC led lamp failed.
- 5. Generator breaker mechanism set not available.
- 6. Controller switch handle not available.
- 7. CT3503 processor cell box damaged.
- 8. Cable gland PG 21-2 nos, PG 13.5 6 nos not available.
- 9. Ammeter failed.
- 10. Voltmeter failed.
- 11. Ammeter, voltmeter selector switch failed.
- 12. APFC panel 4" Cooling fan 1 no failed.
- 13. APFC panel controller failed.
- 14. Earth pit chamber cover 5 nos not available.
- 15. Yard DB structure to be painting work carried.
- 16. Consumer DB structure LA- R, B failed, to be replaced.
- 17. EB DB structure LA -R, B failed, to be replaced.
- 18. AB switch handle earth not available.
- 19. EB meter glass damaged.
- 20. AB switch consumer side not open, to be knife alignment work.
- 21. Power transformer terminal cover bolt 4 nos not available.
- 22. Safety 33KV hand gloves, earth rod, first aid box

Service Private Limited

V27 TOP

13	Hydraulia Unit System	
	Hydraulic Unit System	
13.1	Hydraulic Damper	Damaged
13.2	Hydraulic Motor Bearing Noise	Ok
13.3	Hydraulic Motor Cooling Fan Leaf & Cover	Cooling leaf not available, screw M4-2 nos needed
13.4	Hydraulic Oil Level	Low 2ltrs needed
13.5	Hydraulic Oil Condition	Ok
13.6	Oil Level Sensor CT3218 – 3 Led	Ok
13.7	Hydraulic Oil Leakage	Not available
13.8	Pitch Cylinder Oil Leakage	Not availa <mark>bl</mark> e
13.9	Pitch Cylinder Damper	Ok
13.10	17 Bar Pressure Switch	Ok
13.11	Pitch Cylinder Sandwich	Ok
13.12	Pitch & Brake Pressure Relief valve	ОК
13.13	Hydraulic Motor Cable	Insulation damaged
13.14	Hydraulic Hose A	Ok
13.15	Hydraulic Hose B	Ok
13.16	Hydraulic Hose C	Green Energy
13.17	Hydraulic Hose D	Ok
13.18	Pitch Cylinder Safety Cover	Kept at nacelle
13.19	Pitch Cylinder Safety Block	Ok
13.20	100 Bar Pressure Gauge	Ok
13.21	Hydraulic Filter	Ok
13.22	Break Accumulator	Ok
14	Gear Box System	
14.1	Gear Oil Level	Ok
14.2	Gear Oil Condition	Ok

Hallow shaft plastic safety cover	Ok
Caring to Bearing Noise	Ok
Caring to Bearing Fiber Cover	Ok
Gear Box Magnetic Rod	Ok
Radiator Oil Leakage	Ok
Gear Oil Leakage	Ok
Gear Oil Hose	Ok
Gear Box Noise	Ok
Gear Stay Function	Ok
Low Speed Oil Seal	Ok
Z- Clamp	Ok
Torque Arm Bush	Ok
Pitch Bearing	Ok
Gear Box Suspension	Ok
Gear Oil Level Stick	Ok
Gear box 'l' Hook	Ok
Yawing System	
Yaw Motor Cable Servic	OkPrivate Limited
Yaw Motor Leaf & Cover	RHS side motor not available
Warm Gear Noise & Bearing	RHS side warm gear not available
Warm Gear Oil Level	Ok
Warm Gear Oil Level Warm Gear Oil Leakage	Ok Not available
	Caring to Bearing Noise Caring to Bearing Fiber Cover Gear Box Magnetic Rod Radiator Oil Leakage Gear Oil Leakage Gear Oil Hose Gear Box Noise Gear Stay Function Low Speed Oil Seal Z- Clamp Torque Arm Bush Pitch Bearing Gear Box Suspension Gear Oil Level Stick Gear box 'I' Hook Yawing System Yaw Motor Cable Yaw Motor Leaf & Cover

15.8	Yaw Top Bed Bold for Nacelle	Ok
16	Generator System	
16.1	Gen Bearing Noise	Ok
16.2	Gen Cooling Fan Leaf	Ok
716.3	Gen Damper	LHS front & rear failed
16.4	Gen Termination	Ok
16.5	Gen Cable Gland	Ok
16.6	Gen Cable Clamp	Ok
16.7	Gen Nipple	Ok
16.8	Gen Earth	Ok
16.9	Gen 'l' Hook	Not availa <mark>bl</mark> e
17	Brake System	
17.1	Brake Pad Thickness	Approx. 8 mm
17.2	Brake Pad Bypass Box3 (9-10)	Ok
17.3	Brake Pad Signal 2 Set	Ok
17.4	Brake Caliber 2 nos	Ok
17.5	Brake Caliber Metal Hose	Ok
17.6	Brake Disc Thickness	21.0 mm approx
17.7	Brake Disc Cover	Not available
17.8	Transmission Shaft Play	Ok
17.9	Transmission Shaft Top & Side Cover & Clamp	Ok
17.10	Transmission Shaft M16 Bolt	Ok
18	Battery Box System	
18.1	12V Battery	Not available
18.2	24V Charger	Not available

18.3	Box 230V Cable	Not available
18.4	Box 8 Core 24V Cable	Not available
18.5	Timer Make	Not available
18.6	Relay Make	Not available
18.7	Battery Box Cover	Not available
18.8	Soft Brake Working	Not available
18.9	Soft Brake Modification	Not available
19	Nacelle Light System	
19.1	16 A Switch Box	Ok
19.2	Top Tube Light	Ok
19.3	Tube Light Cable	Ok
20	Top Panel System	
20.1	Contactor Yaw CW	Ok
20.2	Contactor Yaw CCW	Ok
20.2	Contactor Yaw CCW Contactor Hydraulic	Ok Ok
20.3	Contactor Hydraulic	Ok
20.3	Contactor Hydraulic Contactor Gear oil	Ok Ok
20.3 20.4 20.5	Contactor Hydraulic Contactor Gear oil Thermal Relay Yaw CW	Ok Ok Ok
20.3 20.4 20.5 20.6	Contactor Hydraulic Contactor Gear oil Thermal Relay Yaw CW Thermal Relay Yaw CCW	Ok Ok Ok Ok
20.3 20.4 20.5 20.6 20.7	Contactor Hydraulic Contactor Gear oil Thermal Relay Yaw CW Thermal Relay Yaw CCW Thermal Relay Hydraulic	Ok Ok Ok Ok Ok Ok
20.3 20.4 20.5 20.6 20.7 20.8	Contactor Hydraulic Contactor Gear oil Thermal Relay Yaw CW Thermal Relay Yaw CCW Thermal Relay Hydraulic Thermal Relay Gear oil	Ok Ok Ok Ok Ok Ok Ok Ok
20.3 20.4 20.5 20.6 20.7 20.8 20.9	Contactor Hydraulic Contactor Gear oil Thermal Relay Yaw CW Thermal Relay Yaw CCW Thermal Relay Hydraulic Thermal Relay Gear oil 2S Relay	Ok
20.3 20.4 20.5 20.6 20.7 20.8 20.9 20.10	Contactor Hydraulic Contactor Gear oil Thermal Relay Yaw CW Thermal Relay Hydraulic Thermal Relay Gear oil 2S Relay 1B Relay	Ok

20.13	Main Bearing Emergency Button	Ok
20.14	Top Panel Emergency Button	Ok
20.15	Yaw Top Emergency Button	Ok
20.16	Top Panel Door	Ok
20.17	Top Panel Door Hinge	LHS Side bottom damaged
20.18	Top Panel Damper	Damaged
20.19	SMPS	Ok
20.20	1.5V Processor Cell Box	Ok
20.21	Rectifier	1 no not a <mark>va</mark> ilable
21	Main Shaft System	
21.1	Main Bearing Noise & Play	Ok
21.2	Main Bearing Grease Leakage	Ok
21.3	Main Bearing Front and Back Cover	Ok
21.4	Rotor Sensor	Ok
21.5	VOG Sensor	Ok
21.6	Generator sensor	Ok
21.7	Main Bearing 24V Junction Box	Green Energy
21.8	Air Breather Servic	okPrivate Limited
21.9	Nipple Main Bearing	Ok
22	Blade System	
22.1	Blade Crack	Ok
22.2	Blade Arm Bearing	Play
22.3	Blade Bearing Play	Ok
22.4	Blade Breather	Ok

22.5	Nose Cone Crack	Ok		
22.6	Nose Cone Clamp	Ok		
22.7	Nose cone Ring U Clamp	Ok		
22.8	Blade Lip Seal Grease Leakage in and out	Ok		
22.9	Connecting Arm Bold M24	Ok		
22.10	Blade Extender	Not available		
23	Gear Oil Cooler Motor System			
23.1	Motor Bearing Noise	Ok		
23.2	Motor Cable	Insulation damage		
23.3	Gear Oil Pump	Ok		
23.4	Air Duct Cover	Kept in na <mark>cel</mark> le		
23.5	Cooler Motor Bed Stand	Ok		
23.6	Big Fan Leaf	Ok		
24	Power Cable Twisting			
24.1	Twist Sensor	Ok		
24.2	Power Cable Twist	Ok		
24.3	Clamp Not available			
24.4	Bottom to Top cable laying ok Private Limited			
24.5	Power Cable Insulation	Damaged		
25	Anemometer			
25.1	Anemometer Bearing	Ok		
25.2	Anemometer Cup, Holder & Cable	Ok		
25.3	stand	Ok		
26	Windvane System			
26.1	Windvane Bearing	Ok		

26.2	Windvane Holder & Cable	Ok		
26.3	Windvane Cap Nut	Not available		
27	Nacelle Door System			
27.1	Nacelle Cover Crack	Ok		
27.2	Nacelle Back Door	Ok		
27.3	Nacelle Door Mechanism	Ok		
27.4	Nacelle Lightning Spike	Ok		
27.5	Lightning Spike Earth	Ok		
27.6	Vibration Sensor	Ok		
27.7	Nacelle Platform Steel Door	Ok		
27.8	Nacelle Platform Ladder	Ok		
27.9	Nacelle Cable Platform Metal Cover	Not available		
27.10	Grease tray 2 nos	1 no not available		

SriVaru Green Energy

Service Private Limited

TOP REMARKS

- 1. Hydraulic unit vibration damper settle down, to be replaced.
- 2. Hydraulic motor cooling leaf with cotter pin, cover screw m4- 2 nos not available.
- 3. Hydraulic oil 2L needed.
- 4. Hydraulic motor cable insulation damaged.
- 5. pitch cylinder safety cover in nacelle need to be fixed work carried out.
- 6. Right side yaw motor with warm gear not available, to be provided.
- 7. Generator vibration damper LHS side front and back failed.
- 8. Generator 'I' hook not available.
- 9. Brake pad 8 mm, sensor connection OK.
- 10. Radiator vibration damper set not available.
- 11. VOG CT 279 not available circuit bypass, to be provided.
- 12. Top door hinges LHS side bottom damaged.
- 13. Top panel vibration damper damaged.
- 14. Bridge rectifier 1no not available.
- 15. Blade arm slightly play.
- 16. Gear oil cooler motor cable insulation damaged, to be replaced.
- 17. Gear oil cooler air duct cover kept at nacelle.
- 18. Power cable looping clamp set not available.
- 19. Generator power cable insulation damaged.
- 20. Windvane cap nut not available.
- 21. Nacelle cable metal cover not available
- 22. Grease collecting tray 1 no not available

Mobile: +91 8015200475, +91 9025073814

ı Green Energy

vice Private Limited

Sl.No.	Observation details as of WEG Ltd inspection	Photos showing remarks/ Witness	SI.No.	Observation details as of WEG Ltd inspection	Photos showing remarks/ Witness
1	CT 217 Watchdog failed, Circuit bypass.		9	·	
2	Hydraulic unit vibration damper settle down, to be replaced.		10		
3	Right side yaw motor with warm gear not available, to be provided.		11		
4	Generator vibration damper LHS side front and back failed.		12		
5	VOG CT 279 not available circuit bypass, to be provided.	aux aux	13		
6	C	(a C	14	- F	
7	Sriv	raru Gr	15	n Energ	y
		Service Pr			
8			16		

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