

Hoto Inspection Report - V27

Report No	HIR /24-25/SVGE/060
Date	02-09-2024
Inspected By	Mr.Rajku <mark>ma</mark> r, Mr.Iniyan & Mr.Ranjithkumar
Site Operator	Mr.Kan <mark>a</mark> garaj

Turbine Details

Customer Name	M/s. Shanthi Precision Instruments India Private Limited		
WEG No	1737	Location No.	01
Tower Height	50Mtr	HTSC No	472
Capacity	225 kW	Site	Anuppatti
Model	V27	D.O.C	13-09-2006

V27 BOTTOM

1	EB Customer Yard System	
1.1	Earth Pit slot	6nos slot not available, 3nos damaged
1.2	EB, Customer, Control Room Painting	Need to be painted
1.3	EB Side Lightning Arrester (33KV)	3nos failed
1.4	Customer Side Lightning Arrester (33KV)	3nos failed
1.5	EB Side, Customer Side Handle Earth	Ok
1.6	All Insulator	Customer side "R" phase pin insulator 2no's and PT insulator 01no damaged
1.7	EB Meter Glass	Ok
1.8	EB Side, Consumer Side AB switch Working Condition	Consumer DP structure fuse horn in PT bind jumper
2	Safety	
2.1	Earth Rod – 3No's	Ok
2.2	Fire Extinguisher	Need to be refilled
2.3	Fire Bucket Sand – 2 No's With stand	Not available
2.4	33KV Hand Gloves	Not available
2.5	Rubber Mat	Damaged
2.6	Safety Guide Photo	Ok
2.7	First Aid Box	Not available
3	Power Transformer	
3.1	Transformer Oil Level Service Prin	Oke Limited
3.2	Transformer Temperature Gauge	Ok
3.3	Transformer Oil Leakage	Ok
3.4	Transformer Breather Silica gel	Need to be replaced
3.5	Transformer Termination & Cover Bolt	Ok
3.6	Transformer Earth Plate Connection	Ok
3.7	Transformer Gland & Earth	Ok

4	Control Room	
4.1	Tube Light In & Out	Outer light 1no failed
4.2	Light MCB – 2 Pole	Ok
4.3	Room Window Glass	1no damaged
4.4	Power Cable Stand Platform	Stand not available
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	Ok
5.4	EMC Cable 10 Core	Ok
5.5	Earth Cable Top to B <mark>ot</mark> tom	Not available
5.6	Fiber Optic Cable	At looping area need to be corrected
6	Ground Main Panel System	
6.1	Watchdog	Ok
6.2	Timer	Ok
6.3	Air To Air 6" Cooler Fan (2 No's)	Not working
6.4	Stabilizer 2KVA	Not available
6.5	Dhen Card Surge Arrester	3nos failed
6.6	63A Fuse Service Priv	Ok e Limited
6.7	2S Relay	Ok
6.8	1B Relay	Ok
6.9	24V Indication Lamp	Ok
6.10	Thyristor	Ok
6.11	EH 250 Contactor	EH 300 Bypass contactor weak & PCB failure condition
6.12	HPL 330 contactor	Used for G1

6.13	RCC Circuit	Ok
6.14	Generator Breaker Mechanism	Ok
6.15	Controller Switch Mechanism	Ok
6.16	Gen Cable Termination Ground	Ok
6.17	CT Coil	Ok
6.18	Panel Door Hinge	Ok
6.19	Panel Door Lock	Damaged
6.20	1.5V Processor Cell Box	Damaged
6.21	Power Cable PG – Gland	Ok
6.22	Gen 2 contactor	Ok
6.23	Gen 2 MCCB	Cover not available
6.24	24V Auxiliary DC contactor	Ok
6.25	1 A Transformer	Ok
6.26	EMC Switch	Ok
7	MCCB System	
7.1	Ammeter	Not working
7.2	Voltmeter Service Priv	oke Limited
7.3	Ammeter, Voltmeter selector switch	Ok
7.4	230V Indication Lamp (R, Y, B)	Ok
7.5	2A Glass fuse & 20A holder	Ok
7.6	MCCB Safety Acrylic Sheet	Not available
7.7	MCCB Current Coil (3No's)	Ok
7.8	MCCB Cable Termination	"Y" phase melted

7.9	MCCB Working Condition	Ok	
7.10	MCCB Door	Ok	
8	Additional Panel System		
8.1	200A 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	
8.6	Controller display working	Disconnected for failure	
9	Pitch System Checking		
9.1	Balluff Sensor Value 0.041, 9.853	0.019, 9.921	
9.2	Hydraulic Pump Holding Time 0 To 100 bar	5.10mts	
9.3	proportional Valve Holding Time (75 To 90 Bar Time)		
9.4	Sine Test	Ok	
9.5	Pitch Acc Bar	22bar	
9.6	Contactor test	Ok	
Pito	Pitch control card value		
	9 – (0.05)	0.03	
	10 – (-0.05) Service Pri	0.00 Limited	
	11 – (8.500)	10.37	
	12 – (-9.05)	-8.431	

10	All Temperature ⁰ c	
10.1	Ambient	32
10.2	Gen 1	66
10.3	Hydraulic	37
10.4	Nacelle	31
10.5	Gear Oil	50
10.6	Gear Bearing	68
11	Tower system	
11.1	Top to bottom all bolts	Ok
11.2	Tower earth	Not in proper
11.3	Tower vibration	Ok

12.1 MAIN PANEL CA	12.1 MAIN PANEL CAPACITOR TEST				
	STEP 1	STEP 2	STEP 3	STEP 4	
	12.5 X 5	12.5 X 3	12. <mark>5</mark> X	12.5 X	
L1 – V	57	32			
L2 - V	57	33			
L3 - V	57	32			
51	rıVaru	Green	Energ	У	

12.2 ADDITIONAL PANEL CAPACITOR TEST				
	STEP 1 12.5 X 5	STEP 2 25 X 3	Grid 12.5 X 1	Additional
L1 - V	29	20.9	10	
L2 - V	27	20.8	9.8	
L3 - V	28	20.9	9.7	

REMARKS:

- 1. Grid contactor failed
- 2. 1st stage capacitor cable 1 no melted

GROUND REMARKS

- 1. Earth pit slot 6nos not available, 3no damaged.
- 2. Both of DP structure Lightning arrester EB & customer side 3nos failed.
- 3. Fire bucket 1 no and stand not available.
- 4. Power transformer breather need to be changed.
- 5. Power transformer cable Y phase, B phase insulation damage.
- 6. Customer side 33KV pin insulator 2nos broken.
- 7. Fire extinguisher need to be refilled.
- 8. 33 kV hand gloves, safety mat and first aid box not available.
- 9. Safety mat damage and First aid box nil.
- 10. Outdoor tube light 1 no failed.
- 11. Room window glass 1 no damaged.
- 12. Power cable stand not available.
- 13. Air to air cooler not function.
- 14. 2kva stabilizer not available.
- 15. Surge production Dhen guard failed conditions.
- 16. EH300 bypass contactor kit weak & PCB melted condition.
- 17. Gen1 to bypass connecting Bus bar Y phase and B phase heading issue.
- 18. Panel door lock full damaged.
- 19. 1.5V Battery cell box damaged.
- 20. Gen 2 MCCB cover not available.
- 21. Ammeter failed.
- 22. Wall mounded MCCB termination cable "Y" phase melted.
- 23. WM MCCB bus bar rusted to be re termination.
- 24. Grid contactor failed, circuit bypass.
- 25. APFC panel 1st stage capacitor cable 1 no melted.
- 26. APFC panel modification work need to be carried.
- 27. Control room trench need to be closed.



V27 TOP

13	Hydraulic Unit System	
13.1	Hydraulic Unit Damper	Ok
13.2	Hydraulic Motor Bearing Noise	Ok
13.3	Hydraulic Cooling Fan Leaf & Cover	Ok
13.4	Hydraulic Oil Level	Ok
13.5	Hydraulic Oil Condition	Ok
13.6	Oil Level Sensor CT3218 – 3 Led	Ok
13.7	Hydraulic Oil Leakage	Ok
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	Not available
13.18	Pitch Cylinder Safety Cover	Ok
13.19	Pitch Cylinder Safety Block	Ok
13.20	100 bar pressure gauge	Failed
13.21	Hydraulic filter	Argo hytes
13.22	Brake Accumulator	Ok
14	Gear Box System	
14.1	Gear Oil Level	Ok
14.2	Gear Oil Condition	Ok

14.3 Hallow shaft plastic safety cover Ok 14.4 Caring to bearing noise Ok 14.5 Caring to bearing fiber cover Ok 14.6 Gear Box Magnetic rod Ok 14.7 Radiator Oil Leakage Ok 14.8 Gear oil leakage Ok 14.9 Gear oil hose Ok 14.10 Gear box noise Ok 14.11 Gear stay function Ok 14.12 Low speed oil seal Ok 14.13 Z-clamp Ok 14.14 Torque arm bush Ok 14.15 Pitch Bearing Ok 14.16 Gear oil leakage Ok 14.17 Gear box "I Hook Znos not available 15.1 Yawing System 15.1 Yaw Motor Cable Ok 15.2 Vaw Motor Leaf & Cover Ok 15.3 Warm Gear Oil Leakage NiL 15.5 Warm Gear Oil Leakage NiL 15.6 Yaw Top Safety Cover Ok 15.7 Yaw Top Safety Cover Ok 15.8 Yaw top bed bolt for nacelle Ok 15.8 Yaw top bed bolt for nacelle			
14.5 Caring to bearing fiber cover 14.6 Gear Box Magnetic rod Ok 14.7 Radiator Oil Leakage Ok 14.8 Gear oil leakage Ok 14.9 Gear oil hose Ok 14.10 Gear box noise Ok 14.11 Gear stay function Ok 14.12 Low speed oil seal Ok 14.13 Z-clamp Ok 14.14 Torque arm bush Ok 14.15 Pitch Bearing Ok 14.16 Gear oil leakage Ok 14.17 Gear box 'I' Hook 2nos not available 15 Yawing System 15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NiL 15.6 Yaw Top Teeth Ok	14.3	Hallow shaft plastic safety cover	Ok
14.6 Gear Box Magnetic rod Ok 14.7 Radiator Oil Leakage Ok 14.8 Gear oil leakage Ok 14.9 Gear oil hose Ok 14.10 Gear box noise Ok 14.11 Gear stay function Ok 14.12 Low speed oil seal Ok 14.13 Z-clamp Ok 14.14 Torque arm bush Ok 14.15 Pitch Bearing Ok 14.16 Gear oil leakage Ok 14.17 Gear box 'i' Hook 2nos not available 15 Yawing System 15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok	14.4	Caring to bearing noise	Ok
14.7 Radiator Oil Leakage Ok 14.8 Gear oil leakage Ok 14.9 Gear oil hose Ok 14.10 Gear box noise Ok 14.11 Gear stay function Ok 14.12 Low speed oil seal Ok 14.13 Z-clamp Ok 14.14 Torque arm bush Ok 14.15 Pitch Bearing Ok 14.16 Gear oil leakage Ok 14.17 Gear box 'i' Hook 2nos not available 15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Cable Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok 15.7 Yaw Top Safety Cover Ok	14.5	Caring to bearing fiber cover	Ok
14.8 Gear oil leakage Ok 14.9 Gear oil hose Ok 14.10 Gear box noise Ok 14.11 Gear stay function Ok 14.12 Low speed oil seal Ok 14.13 Z-clamp Ok 14.14 Torque arm bush Ok 14.15 Pitch Bearing Ok 14.16 Gear oil leakage Ok 14.17 Gear box 'I' Hook 2nos not available 15 Yawing System 15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Safety Cover Ok	14.6	Gear Box Magnetic rod	Ok
14.9 Gear oil hose Ok 14.10 Gear box noise Ok 14.11 Gear stay function Ok 14.12 Low speed oil seal Ok 14.13 Z-clamp Ok 14.14 Torque arm bush Ok 14.15 Pitch Bearing Ok 14.16 Gear oil leakage Ok 14.17 Gear box 'i' Hook 2nos not available 15 Yawing System 15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok	14.7	Radiator Oil Leakage	Ok
14.10 Gear box noise Ok 14.11 Gear stay function Ok 14.12 Low speed oil seal Ok 14.13 Z-clamp Ok 14.14 Torque arm bush Ok 14.15 Pitch Bearing Ok 14.16 Gear oil leakage Ok 14.17 Gear box '1' Hook 2nos not available 15 Yawing System 15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok 15.7 Yaw Top Safety Cover Ok	14.8	Gear oil leakage	Ok
14.11 Gear stay function Ok 14.12 Low speed oil seal Ok 14.13 Z-clamp Ok 14.14 Torque arm bush Ok 14.15 Pitch Bearing Ok 14.16 Gear oil leakage Ok 14.17 Gear box 'I' Hook 2nos not available 15 Yawing System 15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok	14.9	Gear oil hose	Ok
14.12 Low speed oil seal 14.13 Z-clamp Ok 14.14 Torque arm bush Ok 14.15 Pitch Bearing Ok 14.16 Gear oil leakage Ok 14.17 Gear box 'I' Hook 2nos not available 15 Yawing System 15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok	14.10	Gear box noise	Ok
14.13 Z-clamp Ok 14.14 Torque arm bush Ok 14.15 Pitch Bearing Ok 14.16 Gear oil leakage Ok 14.17 Gear box 'I' Hook 2nos not available 15 Yawing System 15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok	14.11	Gear stay function	Ok
14.14 Torque arm bush Ok 14.15 Pitch Bearing Ok 14.16 Gear oil leakage Ok 14.17 Gear box 'I' Hook 2nos not available 15 Yawing System 15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok	14.12	Low speed oil seal	Ok
14.15 Pitch Bearing Ok 14.16 Gear oil leakage Ok 14.17 Gear box 'I' Hook 2nos not available 15 Yawing System 15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok 15.7 Yaw Top Safety Cover Ok	14.13	Z-clamp	Ok
14.16 Gear oil leakage 14.17 Gear box 'I' Hook 2nos not available 15 Yawing System 15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok	14.14	Torque arm bush	Ok
14.17 Gear box 'I' Hook 2nos not available 15 Yawing System 15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok 15.7 Yaw Top Safety Cover Ok	14.15	Pitch Bearing	Ok
15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok 15.7 Yaw Top Safety Cover Ok	14.16	Gear oil leakage	Ok
15.1 Yaw Motor Cable Ok 15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok 15.7 Yaw Top Safety Cover Ok	14.17	Gear box 'l' Hook	2nos not available
15.2 Yaw Motor Leaf & Cover Ok 15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok 15.7 Yaw Top Safety Cover Ok	15	Yawing System	
15.3 Warm Gear Noise & Bearing LHS yaw unit noise observed 15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok 15.7 Yaw Top Safety Cover Ok	15.1	Yaw Motor Cable	ok een Energy
15.4 Warm Gear Oil Level Not visible 15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok 15.7 Yaw Top Safety Cover Ok	15.2	Yaw Motor Leaf & Cover	Okrivate Limited
15.5 Warm Gear Oil Leakage NIL 15.6 Yaw Top Teeth Ok 15.7 Yaw Top Safety Cover Ok	15.3	Warm Gear Noise & Bearing	LHS yaw unit noise observed
15.6 Yaw Top Teeth Ok 15.7 Yaw Top Safety Cover Ok	15.4	Warm Gear Oil Level	Not visible
15.7 Yaw Top Safety Cover Ok	15.5	Warm Gear Oil Leakage	NIL
· ,	15.6	Yaw Top Teeth	Ok
15.8 Yaw top bed bolt for nacelle Ok	15.7	Yaw Top Safety Cover	Ok
	15.8	Yaw top bed bolt for nacelle	Ok

16	Generator System	
16.1	Gen Bearing Noise	Ok
16.2	Gen Cooling Fan Leaf	Ok
16.3	Gen Damper	Ok
16.4	Gen Termination	Ok
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
17	Brake System	
17.1	Brake Pad Thickness	Ok
17.2	Brake Pad Bypass Box - 4	Ok
17.3	Brake Pad Signal - 2 Set	Single pad connection
17.4	Brake Caliber – 2 No's	Ok
17.5	Brake Caliber Metal Hose	Ok
17.6	Brake Disc Thickness	Ok
17.7	Brake Disc Cover	Not available
17.8	Transmission shaft play	Private Limited
17.9	Transmission shaft top, side cover & clamp	Ok
17.10	Transmission shaft M16 bolt	Ok
18	Battery Box System	
18.1	12V Battery	Nil (To be provided)
18.2	24V Charger	Nil (To be provided)
18.3	Box 230V Cable	Nil (To be provided)

18.4 Box 8 Core 24V Cable Nil (To be provided)			
18.5 Timer Make Nil (To be provided)	Nil (To be provided)		
18.6 Battery Box Cover Nil (To be provided)	Nil (To be provided)		
18.7 Top Panel Loop Check (95-21) (21- 12) (11-31) Nil	Nil		
18.8 Soft Brake Working To be provided	To be provided		
18.9 Soft Brake Modification To be provided	To be provided		
18.20 2S Relay Make To be provided	To be provided		
19 Nacelle Light System			
19.1 16 A Switch Box Not fixed need to be corrected	Not fixed need to be corrected		
19.2 Top, Front & Back 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			
20.3 Contactor Hydraulic Ok			
20.4 Contactor Gear oil Ok			
20.5 Thermal Relay Yaw CW Ok	,		
20.6 Thermal Relay Yaw CCW Ok			
Condida Drivata Linaitad			
20.7 Thermal Relay Hydraulic Ok			
20.7 Thermal Relay Hydraulic Ok 20.8 Thermal Relay Gear oil Ok			
20.7 Thermal Relay Hydraulic Ok			
20.7 Thermal Relay Hydraulic Ok 20.8 Thermal Relay Gear oil Ok			
20.7 Thermal Relay Hydraulic Ok 20.8 Thermal Relay Gear oil Ok 20.9 2S 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	Damaged		
20.17	Top Panel Door Hinge	Damaged		
20.18	Top Panel Damper	Settled down, need to be replaced		
20.19	SMPS	Ok		
20.20	1.5V Processor Cell Box	Ok		
20.21	Rectifier	Ok		
21	Main Shaft System			
21.1	Main Bearing Noise & Play	Ok		
21.2	Main Bearing Grease Leakage	Observed		
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	ok een Energy		
21.8	Air Breather Service	Okrivate Limited		
21.9	Nipple Main Bearing	Ok		
22	Blade System			
22.1	Blade Crack	Ok		
22.2	Blade Arm Bearing	Ok		
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	Inner grease leakage		
22.9	Connecting arm bolt M24	Ok		
22.10	Blade extender	Not available		
23	Gear Oil Cooler Motor System			
23.1	Motor Bearing Noise	Ok		
23.2	Motor Cable	Ok		
23.3	Gear oil pump	Ok		
23.4	Air Duct Cover	Not available		
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	Not available		
24.3	Clamp	Ok		
24.4	Bottom to Top cable laying	Ok		
24.5	Power Cable Insulation	All power cable re-joint in contrler		
25	Anemometer			
25.1	Anemometer Bearing	Ok		
25.2	Anemometer Cup, Holder & Cable	Ok		
25.3	stand	Ok		

26	Wind vane System			
26.1	Windvane Bearing	Ok		
26.2	Windvane Holder & Cable	Cable dressing need to be laying		
26.3	Windvane Cap Nut	Ok		
27	Nacelle Door System			
27.1	Nacelle Cover Crack	Ok		
27.2	Nacelle Back Door	Lock damage		
27.3	Nacelle Sky Window Top	Ok		
27.4	Nacelle Lightning Spike	Ok		
27.5	Lightning Spike Earth	Ok		
27.6	Nacelle damper Front & back	Ok		
27.7	Vibration Sensor	Ok		
27.8	Nacelle Platform Steel Door	Ok		
27.9	Nacelle Platform Ladder	Ok		
27.10	Nacelle Cover Damper	Ok		



Mobile: +91 8015200475, +91 9025073814

TOP REMARKS

- 1. All power cable already re-joint work done
- 2. Tower ladder support clamp bolt and nut M16 X 50 1 no not available
- 3. Tower bolt M22 X 100 mm 1 no not available
- 4. OFC lopping area cable need to be corrected
- 5. Tower bed earth not properly connected
- 6. Bottom to looping area earth cable not available
- 7. Nacelle light with holder not available
- 8. Hyd. Motor cooling leaf not available
- 9. Hyd. Oil minimum level, need to be Topped up
- 10. Gear box "I" bolt 2nos not available
- 11. 100 bar pressure gauge failed
- 12. Transmission shaft boot cover weak condition
- 13. Break pad sensor connected single only instead of 2no of pad's Need to connect 2no's for safety precautions.
- 14. Vickers card & stick not connect properly- Need to be carried.
- 15. 4" cooing fan not function
- 16. Top panel vibration damper found crack.
- 17. 16A switch box not fixed.
- 18. Top panel door hinges 2nos damaged
- 19. Capacitor filter failed
- 20. Main bearing grease leakage
- 21. Blade inner lip seal grease leakage
- 22. Wind van anemometer cable need to be laying
- 23. Nacelle back door lock damaged
- 24. Pitch cylinder coil din connector damaged
- 25. Radiator vibration set not available.



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	Lightning arrester both EB and customer side 3nos failed		9	Tower bed earth not properly connected.	
2	Power transformer breather need to be changed		10	Bottom to looping area earth cable not available	M
3	Customer side 11KV pin insulator 2nos broken.		11	Hyd. Motor cooling leakage not available	
4	Power cable jointed for burnt in bottom cable		12	Transmission shaft boot cover weak condition	
5	EH300 bypass contactor weak condition.		13	Vickers card & Vickers Disc not proper connection need to be carried.	
6	MCCB termination cable "Y" phase melted		14	4" cooing fan not function	
7	Grid contactor failed, circuit bypassed condition		15	Top panel door hinges 2nos damaged	
8	Tower bolt M22 X 100 mm 1 no not available		16	Radiator vibration set 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