



SCOPE OF WORK/ TECHNICAL SPECIFICATIONS

Non / Semi/ Comprehensive maintenance contract for the period of one year.

Scope of Work:

- (A) Scope of Work with Terms and Conditions.
- (B) Check points and schedule of maintenance.
- (C) Schedule 'A' Check – Monthly / Bi-Monthly/ Quaterly Routines.
- (D) Schedule 'B' Check – Half Yearly Routines or 300 Hours ,whichever comes first(Quarterly + Half yearly Routine)
- (E) Schedule 'C' Check – Yearly Routines.

(A) Scope of Work with Term and Conditions:-

1. The CMC includes preventive & break down maintenance including spares & Labours in comprehensive AMC.
2. The firm is to depute qualified staffs for maintenance.
3. The firm is to provide tools to staffs deployed for maintenance.
4. The firm to submit service record slip signed by both parties post maintenance works.
5. The firm to have past experience of doing similar nature of jobs.

(B) Schedule 'A' Check – Monthly / Bi-Monthly/ Quaterly Routines Routines:

Item	Unit/ System	Work to be carried out
1	Engine	<ol style="list-style-type: none">1. Top up oil if required.2. Open the fuel tank drain to drain off water or3. Check fuel filter.4. Clean air cleaner element.5. Lubricate all linkages with oil can.6. Check cooling system and take corrective action.7. Check the terminals of the batteries for clean and tightness. Take corrective action.8. Check tension of all fan belts.9. Check leaks for fuel, oil, water, coolant.10. Check exhausts restriction.11. Check for unusual vibration.12. Check starter & fly wheel13. Check AVM Pad, Door lock , canopy ,etc.
2	Generator	<ol style="list-style-type: none">1. Cleaning of AVR Panel, MCCB's contractor relays, panel timers.2. Check and clean carbon brushes.3. Check for control and power wiring.

4. Tightness of connections and fuses.
5. Check correctness and calibrate of all meters, relays, contractors and MCCB's.
6. Check correctness of output voltage.
7. Check tightness and torque of mounting bolts.
8. Check winding and electrical connections.

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| 3 | Battery | <ol style="list-style-type: none"> 1. Check external leakage. 2. Clean battery terminals. 3. Check Charging. 4. Top up distill water if required. |
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(C) Schedule 'B' Check– Half yearly routines

Item	Unit/ System	Work to be carried out
1	Engine	<ol style="list-style-type: none"> 1. Change oil filter element. 2. Open the fuel tank drain to drain off water or sediments. 3. Replace fuel filter. 4. Change air cleaner element. 5. Lubricate all linkages with oil can. 6. Check cooling system and take corrective action. 7. Check the terminals of the batteries for clean and tightness. Take corrective action. 8. Check crank case breathers. 9. Clean crank case breathers. 10. Check exhaust manifold and turbo charger cap screw. 11. Check starter & fly wheel. 12. Check AVM Pad, Door lock, hinges, canopy, etc.
2	Generator	<ol style="list-style-type: none"> 1. Cleaning of AVR panel, MCCB's contactor relays, panel timers. 2. Check and clean carbon brushes. 3. Check for control and power wiring. 4. Tightness of connection and fuses. 5. Check correctness and calibrate of all meters, relays, contactors and MCCB's. 6. Check correctness of output voltage. 7. Check tightness and torque of mounting bolts. 8. Grease bearing. 9. Check and adjust dual frequency of electronic governor. 10. Check insulation and gravity of alternator.
3	General	<ol style="list-style-type: none"> 1. Check coupling and take necessary corrective action. 2. Lubricate all linkages and lubricating points.

3. After carrying out all checks and performance of DG sets shall be observed and parameters of all the parts and meters should be within limit.
4. Greasing and check mounting bolts torque of engine mounting.
5. Check functioning of all meters.
6. Take a load trial for minimum 30 minutes to check all parameters.

(D) Schedule 'C' Check – Yearly Routine

Item	Unit/ System	Work to be carried out
1	Engine	<ol style="list-style-type: none"> 1. Change oil filter element and top up oil if required. 2. Open the fuel tank drain to drain off water or 3. Replace fuel filter & fuel pipe. 4. Change air cleaner element. 5. Lubricate all linkages with oil can. 6. Check cooling system and take corrective action. 7. Check the terminals of the batteries for clean and tightness. Take corrective action. 8. Change all fan belts. 9. Adjust injectors and valves. 10. Change coolant. 11. Calibrate FIP for fuel injection ratio. 12. Decarburizing of cylinder head. 13. Check rocker cover gasket. 14. Check radiator hoses and clamp.
2	Generator	<ol style="list-style-type: none"> 1. Cleaning of AVR panel, MCCB's contactor relays, panel timers. 2. Check and clean carbon brushes. 3. Check for control and power wiring. 4. Tightness of connection and fuses. 5. Check correction and calibrate of all meters, relay, contactors, and MCCB's. 6. Check correctness of output voltage. 7. Check tightness and torque of mounting bolts. 8. Check and adjust dual frequency of electronic governor. 9. Check insulation and gravity of alternator.
3	General	<ol style="list-style-type: none"> 1. Check coupling and take necessary corrective action. 2. Lubricate all linkage and lubricating points. 3. After carrying out all checks and performance of DG sets shall be observed and parameters of all the parts and meters should be within limit. 4. Greasing and check mounting bolts torque of engine mounting. 5. Take a load trial for minimum 30 minutes to check all parameters.