

Maintenance Plan:

Name of APCM	Tentative date for maintenance	Actual date of maintenance carried out
Bag filter	13/10/2025 13/11/2025 13/12/2025 25/01/2025 25/03/2025	
Cyclone separator	13/10/2025 13/11/2025 13/12/2025 25/01/2025 25/03/2025	
Scrubber	13/10/2025 13/11/2025 13/12/2025 25/01/2025 25/03/2025	
ESP	13/10/2025 13/11/2025 13/12/2025 25/01/2025 25/03/2025	

Note: APCM mentioned in above table is indicative, add/ alter whichever is applicable.

Check list for maintenance of Bag filter**Technical details:**

Name of Utility with bag filter connected	
Capacity of utility	
Fuel name	
Stack height	
Size or capacity of bag filter	
Material of bag	
Number of bags	
Bag length and diameter	
Operating temperature	
Maximum pressure drop	
Cleaning system type	

Maintenance Checklist:

Sr. No.	What to Check	Status (✓/X)	Remark
1.	Inspect duct work and inlet / outlet for blockages		
2.	Inspect door seals for air leaks		
3.	Inspect the entire baghouse structure for corrosion or damage and check for any visible damage to bag house casing and structure due to corrosion		
4.	Perform detailed inspection of filter bags. Replace any damaged bags or if they have reached their lifespan		
5.	Inspect for signs of dust accumulation or clogging on the bags or the housing.		
6.	Examine the cleaning mechanism (pulse jet, shaker, reverse air). Evaluate the effectiveness of the cleaning cycle.		
7.	Ensure proper functioning of solenoid valves and diaphragms		
8.	Ensure that compressed air supply is sufficient for cleaning		
9.	Check and clean hopper for dust buildup		
10.	Check dust removal system i.e. rotary valve etc. at hopper bottom		

11.	Conduct thorough cleaning of fan blades and motor housing		
12.	Check and lubricate fan motor bearings		
13.	Check fan belts and motor operation		
14.	Check fan alignment and balance		
15.	Verify and calibrate operation of differential pressure gauge		
16.	Lubricate all moving parts, including motors and rotary valves		
17.	Inspect for visible dust emissions from exhaust points		
18.	Monitor the airflow rate to ensure it meets design specifications. A drop may suggest blockages.		
19.	Check control panel for wiring issues		
20.	Review the safety systems, including alarms, interlocks, and emergency shutdown features, to ensure they are working properly.		

Following shall be completed before 31st December, 2024 and shall report to Regional officer with photographs.

- a) Painting of all APCM shall be done with nomenclature of each APCM.
- b) Platform shall be provided with adequate size porthole for stack monitoring.
- c) Cap on stack shall be removed
- d) Adequate size FD fan shall be installed to maintain exit velocity of minimum 11 m/sec.

✓ = ok

X = not ok, needs to be rectified

Note: The requirement given in above checklist is indicative requirement, one can add / alter any other technical points as per need at ground level. However, all the efforts shall be made in letter & spirit to control pollution at source.

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Check list for maintenance of Cyclone separator

Technical details:

Name of Utility with cyclone separator connected	
Capacity of utility	
Fuel name	
Stack height	
Size or capacity of cyclone separator	
Operating temperature	
Maximum pressure drop	

Maintenance Checklist:

Sr. No.	What to Check	Status (✓/X)	Remark
1.	Inspect the inlet and outlet for blockages or debris		
2.	Check for signs of wear and tear in the cyclone body		
3.	Check for any visible dust leaks around gaskets and seals		
4.	Inspect for abnormal vibrations or noise during operation		
5.	Ensure that ductwork to and from the cyclone is clear and intact		
6.	Check the differential pressure across the cyclone system		
7.	Verify that the pressure gauge is functioning correctly		
8.	Verify that dust collection hoppers are emptying properly		
9.	Ensure that the dust discharge valves (airlock or rotary) are functioning properly		
10.	Check and lubricate bearings of the fan and rotary airlock (if applicable)		
11.	Inspect the fan operation (if applicable) for proper airflow		
12.	Review the safety systems, including alarms, interlocks, and emergency shutdown features, to ensure they are working properly.		

Check list for maintenance of Scrubber

Technical details:

Name of Utility / Process / Reactor connected with scrubber connected	
Capacity of utility (not applicable in case of process stack)	
Fuel name (not applicable in case of process stack)	
Stack height	
Size or capacity of scrubber	
Type of scrubber	
Scrubbing media	
pH of scrubbing liquid	
Operating temperature	
Maximum pressure drop	

Maintenance Checklist:

Sr. No.	What to Check	Status (✓/X)	Remark
1.	Inspect the inlet and outlet ducts of the scrubber for blockages or damages.		
2.	Check the pressure drop across the scrubber and ensure it is within the normal operating range.		
3.	Inspect the spray nozzles (for wet scrubbers) for clogging or wear, and clean if necessary.		
4.	Inspect the venturi throat and spray chamber for wear and proper function.		
5.	Verify the liquid flow rates in wet scrubbers to ensure they are within specification.		
6.	Measure the pH levels of the scrubbing liquid (for chemical scrubbers) to ensure proper neutralization.		
7.	Monitor the temperature of the scrubbing liquid to ensure they are within operational limits.		
8.	Check the water level in the recycle tank and refill if necessary.		
9.	Check for uniform air or gas distribution throughout the scrubber to prevent uneven performance.		

13.	Verify that the entire system (cyclone, ductwork, fans) operates within designed airflow and pressure specifications		
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Check list for maintenance of Electrostatic Precipitators (ESPs)**Technical details:**

Name of Utility with ESP connected	
Capacity of utility	
Fuel name	
Stack height	
Size or capacity of ESP	
Type of ESP	
Rapping mechanism	
Operating temperature	
Maximum pressure drop	

Maintenance Checklist:

Sr. No.	What to Check	Status (✓/X)	Remark
1.	Verify the uniformity of airflow at the ESP inlet and outlet and field wise.		
2.	Monitor the airflow rate through the ESP to ensure it meets design specifications.		
3.	Inspect and clean the gas distribution screens to ensure there are no blockages.		
4.	Inspect the ESP's power supply and ensure the voltage levels are within the correct operating range.		
5.	Inspect the condition of the discharge electrodes for any signs of wear or damage.		
6.	Measure the voltage and current supplied to the electrodes. Ensure they are within specified ranges.		
7.	Check the uniformity of the corona discharge to ensure consistent performance.		
8.	Clean the collection electrodes to prevent dust buildup and maintain collection efficiency.		
9.	Inspect the rappers to ensure they are functioning properly for effective electrode cleaning		
10.	Check the hopper for dust accumulation and ensure proper dust removal mechanisms are working effectively.		

10.	Inspect the fan bearings and ensure proper alignment for efficient operation.		
11.	Check the operation of the fan and motor to ensure there are no abnormal noises or vibrations.		
12.	Examine the packing material for wear, buildup, or fouling and clean if required.		
13.	Check the waste/sludge collection system to ensure it is functioning and not overloaded.		
14.	Inspect electrical connections and instrumentation for signs of wear, corrosion, or malfunction.		
15.	Review the safety systems, including alarms, interlocks, and emergency shutdown features, to ensure they are working properly.		

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11.	Measure the pressure drop across the ESP. A significant increase may indicate clogging or inefficient operation.		
12.	Calibrate key sensors, including pressure and temperature sensors, to ensure accurate readings.		
13.	Inspect the insulators to ensure they are clean and free from contamination.		
14.	Ensure the safety interlocks and alarms are functioning correctly.		

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