STANDARD OPERATING PROCEDURE (SOP) / GUIDELINES FOR PREVENTION AND CONTROL OF AIR POLLUTION FROM WAREHOUSE AND LOGISTICS ACTIVITIES IN THE STATE OF MAHARASHTRA

Reference:

1. Air (Prevention and Control of Pollution) Act, 1981, Water (Prevention and Control of Pollution) Act, 1974 and Environment (Protection) Act, 1986 and Rules/Notifications issued thereunder, as applicable.
2. Various directions issued by the Hon'ble High Court of Judicature at Bombay in Suo Motu Public Interest Litigation No. 03 of 2023.
3. Recommendations of the High-Power Committee constituted pursuant to the orders of the Hon'ble High Court of Judicature at Bombay.

In exercise of the powers conferred under section 17 of the Air (Prevention & Control of Pollution) Act, 1981 & Sub Section (1), Sub Clause (n) and (o) of Section 17 of the Water (Prevention & Control of Pollution) Act, 1974, the Maharashtra Pollution Control Board hereby notifies the standard operating procedures (SOPs) / Guidelines for ware house activities in the entire State of Maharashtra for control measures to be imposed to abate/mitigate pollution and, to protect environment alongwith public health in the surrounding areas.

Preamble

Warehouses, logistics parks, distribution centres and allied storage facilities involve substantial movement of heavy-duty trucks, trailers, light commercial vehicles, material-handling equipment and employee/visitor vehicles. Although warehousing may not ordinarily involve a manufacturing process, large-scale movement and manoeuvring of vehicles, loading and unloading, parking and holding of heavy vehicles, movement over unpaved or inadequately maintained surfaces, handling of dusty materials and accumulation of road dust may result in significant re-suspension of particulate matter and fugitive dust emissions.

Additional environmental impacts may arise from diesel-generator sets, vehicle exhaust emissions, prolonged vehicle idling, material spillages, storm-water contaminated with deposited dust, solid waste and packaging waste, vehicle washing and maintenance activities and the waste material generated from the spoiled stored goods & packaging material.

These Guidelines are being issued to prescribe minimum environmental safeguards for establishment and operation of warehouses, logistics parks, distribution centres and allied facilities.

Where any statutory provision, Environmental Clearance condition, Consent condition, Government notification, Court/Tribunal direction, planning permission or any subsequent legally binding requirement is more stringent than these Guidelines, the more stringent requirement shall prevail.

As per the revised categorisation of industries/sectors issued by the Central Pollution Control Board (CPCB) vide dtd. 12/02/2025, certain storage, warehousing and allied activities are specifically covered under the Consent Regime, including Bulk Terminals for Storage and Packaging of Cement (Category 20.7 – Green), Cold Storage (Category 34.2 – Green), Isolated Storages as defined under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989, as amended (Category 151.3 – Orange), Railway Sidings / Mineral Stock Yards (Category 7.1 – Green), and Facilities for Handling, Storage and Transportation of Food Grains in Bulk

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(Category 15.0 – Green). Accordingly, facilities falling under the aforesaid categories shall obtain and maintain valid Consent to Establish and/or Consent to Operate, as applicable, from the Maharashtra Pollution Control Board in accordance with the prevailing categorisation and statutory requirements. The provisions of these Guidelines shall be in addition to, and not in substitution of, the conditions stipulated in the Consent granted by the Board to such facilities, and wherever any Consent condition, statutory requirement or other applicable direction is more stringent, the more stringent requirement shall prevail.

ENFORCEMENT

Non-compliance with these Guidelines, Consent conditions, Environmental Clearance conditions or directions issued by the Board / competent authority may attract appropriate legal action under the Air (Prevention and Control of Pollution) Act, 1981; Water (Prevention and Control of Pollution) Act, 1974; Environment (Protection) Act, 1986; applicable Rules / Notifications.

1. APPLICABILITY

1.1 Facilities Covered

These Guidelines shall apply, irrespective of the area of the premises, to existing as well as proposed:

- Warehouses and godowns;
- Logistics parks and logistics hubs;
- Distribution centres;
- E-commerce fulfilment centres;
- Containerised /general cargo storage and handling facilities to the extent not otherwise governed by a separate specific MPCB guideline;
- Multi-modal logistics facilities, insofar as warehouse/logistics operations are concerned;
- Cold-storage facilities having substantial warehousing/logistics operations, without prejudice to additional requirements applicable to refrigeration systems;
- Industrial warehouses located within or outside industrial estates / MIDC areas; and
- Any similar facility involving substantial storage, loading/unloading, parking or movement of trucks/trailers or other goods vehicles.

1.2 Activities Covered

These Guidelines shall cover, as applicable:

- Entry and exit of trucks/trailers;
- Internal truck movement;
- Parking and holding areas;
- Truck queuing;
- Material transfer and handling;
- Internal roads;
- Open storage areas;
- Vehicle washing;
- Vehicle maintenance areas;
- Diesel-generator sets;
- Dust suppression and housekeeping;
- Storm-water management;

- Solid waste and packaging waste with Hazardous Waste & Other type of waste;
- Green belt/plantation;
- Ambient air-quality monitoring; and
- Associated pollution-generating activities.

2. STATUTORY PERMISSIONS AND REGULATORY REQUIREMENTS

2.1 MPCB Consent

For the purpose of implementation of these Guidelines, warehouses/logistics facilities covered herein shall obtain valid Consent to Establish (CTE) prior to establishment and Consent to Operate (CTO) prior to commencement of operation from the Maharashtra Pollution Control Board, wherever Consent is applicable under the prevailing statutory framework and MPCB / CPCB categorisation.

Where any activity is expressly exempted from the Consent mechanism under a prevailing statutory notification/categorisation/order, such exemption shall prevail.

The Consent shall cover, as applicable:

- Warehouse/storage activity;
- Total plot and built-up area;
- Number and type of storage buildings;
- Installed DG-set capacity;
- Wastewater generation;
- Vehicle washing;
- Material handled/stored;
- Maximum truck-handling capacity;
- Parking/holding capacity;
- Pollution-control systems; and
- Solid/hazardous waste generated.

2.2 Environmental Clearance

Prior Environmental Clearance shall be obtained wherever the total built-up/construction area exceeds 20,000 square metres and the project attracts the provisions of the prevailing EIA Notification, 2006, as amended from time to time, or such other threshold/requirement as may be prescribed by the Government of India/competent authority.

Obtaining MPCB Consent shall not exempt a project from obtaining Environmental or other Clearances wherever independently applicable.

Similarly, Environmental Clearance shall not dispense with the requirement of obtaining MPCB Consent wherever Consent is applicable.

2.3 Other Permissions

The project proponent shall obtain, as applicable:

- Development/planning permission;
- Building permission/Occupancy Certificate / Commencement Certificate / Plinth Certificate / Completion Certificate whenever applicable;
- NOC from concerned Fire Department;
- Traffic/transport permissions;

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- MIDC/local authority permission;
- Groundwater permission;
- Petroleum/explosives permissions;
- Hazardous-chemical permissions;
- CRZ permission;
- Tree authority permission; and
- Any other statutory approval applicable to the facility.

2.4 Hazardous Materials

Storage of hazardous chemicals, petroleum products, hazardous waste, flammable substances or other regulated materials shall additionally comply with the relevant statutory Rules, permissions and safety requirements.

These Guidelines shall not be construed as replacing any separate statutory requirement applicable to hazardous storage.

3. SITE PLANNING AND TRAFFIC MANAGEMENT

The warehouse shall prepare and implement a Vehicle Movement and Dust Management Plan considering:

- Daily and peak-hour truck movement;
- Entry and exit gates;
- Truck queuing;
- Parking/holding capacity;
- Internal circulation;
- Loading docks;
- Turning and manoeuvring locations;
- Employee/visitor parking;
- Pedestrian movement;
- Road-cleaning arrangements;
- Tyre-washing system;
- Dust suppression;
- Nearby habitation/sensitive receptors; and
- Approach-road condition.

Entry, exit and circulation shall, as far as practicable, be planned so as to minimise congestion, queuing, repeated acceleration/deceleration and unnecessary movement of heavy vehicles within and outside the premises.

4. INTERNAL ROADS AND TRUCK-MOVEMENT AREAS

4.1 Mandatory Paving

The entire area regularly used for movement, manoeuvring, parking, loading/unloading or holding of trucks and other vehicles shall be provided with a durable cement – concrete / rigid pavement / bituminous pavement or equivalent dust-free paved surface.

This shall include:

- Approach road from main road;
- Main internal roads;
- Entry and exit roads;

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- Truck circulation roads;
- Loading/unloading areas;
- Loading-dock aprons;
- Turning and manoeuvring areas;
- Truck parking bays;
- Truck holding/queuing areas;
- Staff/visitor vehicle parking regularly subjected to vehicle movement; and
- Roads connecting the warehouse building with the main gate.

Bare soil, earthen surfaces, loose murum, unbound WBM or other dust-generating surfaces shall not be permitted in regularly trafficked areas.

4.2 Road Maintenance

- Paved roads shall be maintained in good condition.
- Potholes, damaged pavement, broken edges or locations where soil/mud is exposed shall be repaired without undue delay.
- Loose dust, soil, mud or spilled material shall not be permitted to accumulate on vehicle-movement surfaces.

5. PARKING AND HOLDING AREAS

Separate and adequately sized parking / holding areas shall be provided for trucks / trailers so that vehicles awaiting loading / unloading do not remain parked on public roads.

Parking/holding areas shall:

- Be clearly demarcated;
- Have stable dust-free surfaces with rigid pavement / Concrete / bituminous structure;
- Be included in mechanised road-cleaning schedules;
- Have proper drainage;
- Be maintained free of loose soil and debris; and
- Have sufficient circulation space to minimize repeated vehicle manoeuvring.

Parking of trucks / trailers on bare soil shall not be permitted.

The facility operator shall ensure that queues of trucks associated with warehouse operations do not obstruct public roads or create avoidable road-dust emissions.

6. MECHANISED ROAD CLEANING AND HOUSEKEEPING

6.1 Mechanised Cleaning

All durable cement–concrete / rigid pavement / bituminous pavement or equivalent dust-free paved surfaces, truck parking / holding areas, loading / unloading yards and docking areas shall be regularly cleaned at least five (5) times a day using mechanical vacuum sweeping machines.

Dry manual sweeping and compressed-air cleaning which result in re-suspension of dust shall not be permitted.

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6.2 Spillages

Any soil, dust, packaging material, cargo, powder or other material spilled during loading / unloading or transportation shall be immediately collected. Spillage shall not be washed into storm-water drains.

6.3 Public / Approach Road

The warehouse operator shall prevent mud, soil, dust or other material originating from its premises from being deposited on the public / approach road.

All roads outside the warehouse premises, upto a distance of 100 mtrs from the warehouse boundary shall be wetted by Water sprinkling to control fugitive dust emissions & swept by mechanical vacuum sweeping machine at least five (5) times each day.

7. AUTOMATIC TYRE-WASHING AND TRACK-OUT CONTROL

7.1 Tyre-Washing Facility

An appropriately designed automatic tyre/wheel-washing system shall be provided at the exit of warehouses/logistics facilities having regular heavy commercial vehicle movement, wherever required by MPCB having regard to traffic volume, site conditions and likelihood of track-out.

The system shall clean tyres/wheels and, where required, the lower undercarriage of vehicles before they enter the public road. The tyre-washing facility shall be located so that vehicles cannot bypass the system when its use is required.

7.2 Wash-Water Management

Tyre-wash water shall be collected through a properly designed drainage system, routed to settling/silt-removal facilities, treated as necessary and recycled/reused to the maximum extent possible.

Untreated tyre-wash water shall not be discharged onto roads, open land or storm-water drains. Sludge shall be periodically removed, dewatered and disposed of/reused through an environmentally sound route.

8. DUST SUPPRESSION

Water sprinklers, fine-mist systems, foggers or equivalent dust-suppression arrangements shall be deployed at locations where visible fugitive dust may occur, including entry/exit, truck-holding areas, loading/unloading areas, exposed peripheral areas, unavoidable temporary dusty areas and locations identified during MPCB inspection.

Dust suppression shall be implemented without creating excessive runoff, waterlogging or slippery road conditions.

9. LOADING AND UNLOADING OPERATIONS

Loading/unloading shall be undertaken only within designated areas.

Where materials susceptible to dust generation are handled:

- Drop height shall be minimised;
- Loading/unloading shall be enclosed/covered to the maximum practicable extent;
- Suitable misting/extraction systems shall be provided;
- Material shall not be dropped indiscriminately;
- Spillages shall be immediately removed; and

- Wind-blown dust shall be prevented.

Dock areas shall be regularly cleaned to prevent accumulation of fine particulate material.

10. STORAGE OF DUST-GENERATING MATERIAL

Warehouses handling cement, fly ash, mineral powder, construction materials, grains, powdered chemicals or any other fine/dust-generating material shall provide additional source-specific measures including, as applicable:

- Closed storage;
- Enclosed silos/bins;
- Covered handling systems;
- Covered conveyors;
- Dust extraction;
- Bag filters;
- Local exhaust ventilation;
- Mist systems; and
- Closed loading/unloading.

No fine material susceptible to wind erosion shall be stored openly without adequate control measures.

Where a separate activity-specific MPCB SOP/Guideline applies to the material or process concerned, the more stringent requirement shall apply.

11. TRANSPORTATION

- Trucks transporting loose, fine, granular, dusty or wind-erodible materials shall be completely covered using suitable impervious/tarpaulin covers.
- Material shall not project beyond the vehicle body in a manner likely to cause spillage.
- No vehicle having visible mud, dust or loose material adhering to tyres/body and likely to be deposited on public roads shall be permitted to exit without cleaning.

12. VEHICLE IDLING AND EMISSIONS

- Unnecessary idling of trucks and other diesel vehicles within warehouse premises shall be prohibited.
- Drivers shall switch off vehicle engines during prolonged waiting, loading/unloading or parking wherever operational and safety considerations permit.
- A suitable No Unnecessary Idling instruction shall be displayed prominently at the entry gate, holding area, loading docks and driver waiting areas.
- Vehicles operating within the premises shall possess valid Pollution Under Control certificates wherever applicable.
- The warehouse operator shall encourage systematic scheduling/time-slot management of trucks to minimise congestion and idling.

13. DG SETS

- Diesel-generator sets shall comply with applicable emission and noise standards.
- The DG set shall be provided with acoustic enclosure, adequate stack height, proper fuel-storage arrangements and regular maintenance.
- Cleaner power alternatives and minimisation of DG-set operation shall be encouraged.

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- Strictly comply with Board Circular issued by the MPC Board vide No. MPCB/JD(APC)/NCAP/DG Set/B-0090 dated 02/06/2023 regarding Retrofitting of Emission Control Device (RECD) for in-use Diesel Operated Internal Combustion Engines/D.G. Sets, and any subsequent amendment, clarification or direction issued by MPCB/CPCB/MoEF&CC in this regard.
- Wherever applicable under the said Circular, in-use DG Sets shall be provided with a CPCB-compliant/certified Retrofit Emission Control Device (RECD) and the same shall be operated and maintained in effective working condition. The applicant shall maintain relevant records regarding DG Set capacity, date/year of manufacture, applicability and installation of RECD, certification, maintenance and operation, and shall produce the same before the Board during inspection whenever required.
- Operation of DG Sets shall be minimised as far as practicable, and cleaner/alternative sources of power shall be encouraged.

14. PERIPHERAL DUST BARRIER

- Where the warehouse / logistics facility is located adjacent to residential habitation, school, hospital, public road or other sensitive receptor a continuous solid/tin-sheet/appropriate engineered dust barrier all along the boundary up to a minimum height of about 20 feet should be provided.
- The barrier shall be structurally stable, adequately supported, maintained in good condition and kept substantially free from gaps which permit fugitive dust escape.

15. GREEN BELT / PLANTATION

- Suitable plantation shall be developed along the periphery of the premises, particularly along boundaries adjoining roads, around truck parking areas, on sides facing habitation/sensitive receptors and in available open areas not required for traffic circulation.
- Preference shall be given to native, broad-leaved and dust-tolerant species.
- Plantation shall be supplementary to, and shall not replace, paving, housekeeping, tyre washing or source-control requirements.

16. AMBIENT AIR QUALITY MONITORING

Warehouse/logistics facilities shall ensure that operations do not result in deterioration of ambient air quality beyond applicable National Ambient Air Quality Standards. Particular attention shall be given to PM10 and PM2.5.

Parameter	Averaging Time	Standard
PM10	24-hour	100 µg/m^3
PM2.5	24-hour	60 µg/m^3

Installation and Display of Ambient Particulate Matter Sensors

- Calibrated indicative PM10 and PM2.5 sensors shall be installed for continuous indicative monitoring of particulate matter generated.
- The PM10 and PM2.5 sensors shall be connected to the MPCB server for real-time transmission of monitoring data. The warehouse operator shall ensure continuous and reliable connectivity for online data transmission to the Board's server, and the

transmitted data shall be made available to the MPCB for monitoring and inspection purposes.

- The sensors shall be suitably calibrated/verified and maintained in proper working conditions to ensure reliable indicative monitoring.
- Sensors shall be installed at **representative locations along the boundary of the premises**, particularly on the **downwind side of the unit with respect to the predominant wind direction**, and preferably at the **nearest boundary towards the surrounding habitation / receptor**, wherever applicable. Where required, an additional sensor may be installed on the **upwind side** to assess the background particulate matter concentration.
- The sensor location shall be free from direct obstruction and shall not be immediately influenced by exhaust outlets, internal dust-generating equipment or other localized sources.
- Where such indicative sensors are stipulated, the real-time indicative PM10 and PM2.5 concentrations shall be displayed prominently at the main entrance/gate in a location clearly visible to visitors, workers and the general public. The electronic/digital display shall indicate current/periodic PM10 and PM2.5 readings along with date and time. Monitoring data shall be electronically logged and made available to the Board during inspection..
- The sensor calibration/verification, maintenance and data logging shall be carried out regularly, and the system shall remain operational at all times. The exact location, mounting height and orientation of the sensors shall be finalized based on the **site layout, location of major dust-generating sources, predominant wind direction and nearby sensitive receptors/habitations**, and shall be verified by the Board during inspection.

17. CCTV SURVEILLANCE

CCTV cameras shall be installed at strategic locations including entry gate, exit gate, tyre-washing facility, truck parking/holding area, major internal truck roads, loading/unloading areas and other critical pollution-control locations.

The CCTV system shall clearly enable verification of operation of tyre-washing facilities, road cleaning, truck covering, vehicle movement, loading/unloading practices and track-out control.

CCTV footage shall be retained for a minimum period of 45 days and shall be made available to MPCB or other competent authorities during inspection/investigation.

18. STORM-WATER AND WASTEWATER MANAGEMENT

Storm-water drains shall be properly designed and regularly maintained. Dust, sediment, waste material or wash-water sludge shall not be permitted to enter storm-water drains.

Vehicle/tyre washing areas shall have separate collection systems.

Wastewater generated from vehicle washing, floor washing, equipment washing or other operational activities shall be collected and treated/reused as applicable. Untreated wastewater shall not be discharged outside the premises.

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19. SOLID WASTE MANAGEMENT

- Packaging waste, pallets, plastic, paper, cardboard, damaged goods and other solid waste shall be segregated, stored within designated covered areas and disposed of/recycled through authorised agencies as applicable.
- **Open burning of any waste within or around the warehouse premises is strictly prohibited.**
- Waste shall not be stored on truck-movement roads, parking areas or storm-water drains.
- If hazardous materials, as defined under the Hazardous & Other Waste (Management & Transboundary Movement) Rules 2016, is stored, then membership of Common Hazardous Waste Storage, Treatment and Disposal facility shall be obtained to take care of spoiled hazardous material.

20. CONSTRUCTION / EXPANSION OF WAREHOUSE

- Construction or expansion activities associated with warehouse/logistics projects shall comply with applicable construction and demolition waste and dust-control requirements.
- During construction, construction roads shall be maintained dust-free, construction material shall be covered, dust suppression shall be provided, trucks shall be covered, trucks & tyres shall be cleaned before exit and C&D waste shall be handled only in accordance with applicable Rules/directions.
- Commencement of commercial warehouse operations shall not be permitted until permanent truck roads, loading areas and mandatory dust-control infrastructure are completed.

21. NO DUST CONTROL - NO OPERATION PRINCIPLE

The following essential controls shall remain operational whenever the corresponding activity is being carried out:

- Road-cleaning system;
- Tyre-washing facility;
- Dust suppression;
- Dust extraction/collection systems;
- Wastewater collection/recycling systems; and
- Other control systems required under Consent.

Where failure of any such system results or is likely to result in substantial uncontrolled dust emission or track-out onto public roads, the corresponding activity/vehicle movement shall be restricted until the system is restored.

Deliberate bypass of any pollution-control arrangement shall be treated as serious non-compliance.

22. Bank Guarantee for Compliance and Operation & Maintenance

Every Warehouses, logistics parks, distribution centres and allied storage facilitiy operator covered under these Guidelines shall submit the required Bank Guarantees in favour of the Maharashtra Pollution Control Board (MPCB) within 15 days from the date of issuance of these Guidelines, as specified below:

- **Bank Guarantee towards Compliance:** A Bank Guarantee of Rs. 10,00,000/- (Rupees Ten Lakh only) shall be furnished for ensuring implementation and compliance with the

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infrastructure, pollution-control and other requirements prescribed under these Guidelines within the stipulated timelines.

- **Bank Guarantee towards Operation and Maintenance:** A separate Bank Guarantee of Rs. 10,00,000/- (Rupees Ten Lakh only) shall be furnished for ensuring continuous and effective operation and maintenance of all pollution-control measures, systems and infrastructure provided in accordance with these Guidelines.
- The Bank Guarantees shall be submitted in the prescribed format in favour of Concern Regional Office and shall remain valid for five years.
- In the event of non-compliance with any requirement of these Guidelines, failure to achieve compliance within the stipulated timeline, or failure to properly operate and maintain the prescribed pollution-control measures, the Maharashtra Pollution Control Board may invoke / forfeit the respective Bank Guarantee, wholly or partly, after following the applicable procedure.
- Furnishing of the Bank Guarantees shall not excuse the Warehouses, logistics parks, distribution centres and allied storage facility operator from compliance with these Guidelines or from any action that may be initiated under the applicable environmental laws, Consent conditions, directions or other statutory requirements.

23. DAILY PRE-START / OPERATING CHECKLIST

- Internal roads are clean and in good condition.
- No loose dust/soil has accumulated on truck-movement areas.
- Truck parking/holding areas are paved and clean.
- Mechanical/vacuum sweeping equipment is operational.
- Water sprinkling/misting systems are functional.
- Tyre-washing system is operational.
- Settling/recycling system is operational.
- No mud/dust track-out is visible at the gate/public road.
- Loading/unloading areas are clean.
- Trucks carrying loose/dusty material are covered.
- No unnecessary vehicle idling is occurring.
- CCTV system is functional and recording.
- PM10/PM2.5 monitoring system, wherever prescribed, is functional.
- DG-set pollution/noise-control arrangement is functional.
- Storm-water drains are free from waste/silt obstruction.
- Solid waste is stored only at designated locations.
- Previous complaints/non-compliance observations have been addressed.
- The roads extending up to 100 mtrs. on all sides outside the premises shall be cleaned.

24. RECORDS TO BE MAINTAINED

- Environmental Clearance and compliance reports.
- MPCB CTE/CTO and Consent compliance reports.
- Planning/local authority approvals.
- Daily number of incoming/outgoing trucks.
- Mechanical road-cleaning log.
- Water sprinkling/misting log.
- Tyre-washing operation/maintenance log.
- Water consumption and recycled-water records.

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- Sludge generation and disposal/reuse records.
- CCTV recordings for minimum 45 days.
- PM10/PM2.5 monitoring data and calibration records.
- DG-set operation/maintenance records.
- Solid-waste disposal/recycling records.
- Complaints received and corrective action taken.
- Breakdown/non-compliance and corrective/preventive-action records.
- Geo-tagged photographs/videos demonstrating compliance.

Records shall be produced before MPCB or other competent authority whenever called for.

25. DISPLAY BOARD AT MAIN ENTRANCE

A display board shall be installed at the main entrance indicating:

- Name of warehouse/logistics facility;
- Name/contact details of responsible person;
- Plot area;
- Built-up area;
- Maximum storage capacity;
- Normal daily truck movement;
- Maximum truck parking/holding capacity;
- MPCB Consent number and validity;
- Environmental Clearance details, wherever applicable; and
- Emergency/contact number.

Where continuous/indicative PM monitoring is prescribed, PM10 and PM2.5 readings may also be displayed electronically at the entrance.

26. INSPECTION AND COMPLIANCE VERIFICATION

MPCB inspection shall be evidence-based and shall verify actual operation rather than mere installation of pollution-control measures.

Inspection shall specifically verify:

- Environmental Clearance applicability/status.
- CTE/CTO status.
- Plot/built-up area.
- Daily/peak truck movement.
- Condition of internal roads.
- Paving of parking/holding areas.
- Loading/unloading areas.
- Dust accumulation on roads.
- Operation of mechanical/vacuum cleaning equipment.
- Tyre-washing facility.
- Track-out at gate/public road.
- Truck covering.
- Vehicle idling.
- Water-sprinkling/misting.
- CCTV operation and minimum 45-day records.
- PM10/PM2.5 monitoring, wherever applicable.
- DG-set compliance.
- Storm-water/wash-water arrangements.

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- Waste/sludge management.
- Nearby habitation/sensitive receptors.
- Complaints and corrective actions.
- Cleaning of Approach Roads and Roads up to100 Mtrs. Outside the Premises.

Geo-tagged photographs/videos shall be captured/verified for major compliance points.

Where necessary, the Regional Officer/Sub-Regional Officer may undertake joint inspection with the concerned Municipal Corporation, MIDC, Planning Authority, Traffic Police, Transport Department or other competent authority.

27. COMPLIANCE BY EXISTING WAREHOUSES

- Existing warehouse/logistics facilities shall carry out a gap assessment against these Guidelines and submit a time-bound compliance plan to MPCB.
- Immediate requirements such as road housekeeping, truck covering, prevention of track-out, prohibition of unnecessary idling, waste management and dust suppression shall be complied with forthwith.
- Infrastructure-intensive measures such as permanent paving/concreting, automatic tyre washing, drainage/recycling infrastructure, continuous PM monitoring and additional CCTV shall be completed within the period of 02 months from the publishing of these SOPs / Guidelines.

28. RESPONSIBILITY OF WAREHOUSE OWNER / OPERATOR

- The warehouse owner, developer, occupier and/or operating entity shall be responsible for compliance with these Guidelines within the premises.
- Where multiple tenants/operators function within a common logistics park, the developer/estate manager shall remain responsible for common infrastructure including internal roads, common parking/holding areas, entry/exit, tyre washing, mechanical sweeping, dust suppression, CCTV, common monitoring, drainage and common waste-management infrastructure.
- Individual occupiers shall remain responsible for pollution arising from their respective storage/loading/unloading activities.
- Contracting out housekeeping, transport or logistics operations shall not absolve the warehouse owner/operator from environmental responsibility.

MINIMUM WAREHOUSE AIR-POLLUTION CONTROL MATRIX

Activity / Source	Minimum Control Measure
Internal truck roads	CC/bituminous/equivalent dust-free pavement; no bare soil
Truck parking/holding area	Completely paved, marked and regularly mechanically cleaned
Loading/unloading apron	Paved; immediate spill removal
Truck entry/exit	Paved and maintained free from loose dust/mud
Road dust	Mechanical vacuum/wet sweeping
Dust suppression	Sprinkling/fine mist/fogging wherever required

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Activity / Source	Minimum Control Measure
Tyre track-out	Automatic tyre washing wherever prescribed
Tyre-wash water	Collection, settling and reuse
Public-road track-out	Immediate mechanical cleaning
Loose dusty cargo	Fully covered vehicles
Truck idling	Unnecessary idling prohibited
Truck congestion	Adequate holding area and scheduling
Loading of dusty material	Minimise drop height; enclosure/misting/extraction
Fine material storage	Closed / covered storage
DG sets	Applicable emission / noise controls
Sensitive boundary	Solid barrier /plantation as required
CCTV	Gate, tyre wash, roads and loading areas
CCTV retention	Minimum 45 days
PM monitoring	PM10/PM2.5 as stipulated by MPCB
Solid waste	Segregated, covered authorised disposal/recycling
Open burning	Completely prohibited
Storm-water drains	No dust/sludge/waste entry
Housekeeping	No dry sweeping/compressed-air dust dispersal
100 mtrs. roads outside in all directions.	Maintained clean and dust-free; regular mechanical/wet cleaning and immediate removal of dust, mud and spillage.
Approach Roads	Maintained clean, dust-free and mud-free; regular mechanical / wet cleaning.

29. <u>General Saving Clause</u>

Nothing contained in these Guidelines shall be construed as relaxation of any more stringent provision under any law, Environmental Clearance, Consent, Government notification, Court/Tribunal order, local planning requirement or subsequent direction of the Maharashtra Pollution Control Board.

The Maharashtra Pollution Control Board reserves the right to prescribe additional or more stringent conditions considering site-specific conditions, traffic volume, ambient air quality, proximity to habitation/sensitive receptors, public complaints, cumulative pollution load and directions issued by the Hon'ble High Court/High Power Committee or any competent authority.

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30. Rodent / Pest Control

The occupier shall implement an effective rodent and pest-control programme within the premises, including appropriate preventive and control measures, proper housekeeping and safe storage of materials, so as to prevent breeding or infestation of rodents, insects and other pests and to ensure that no nuisance, health hazard or migration of pests is caused to neighbouring premises or surrounding areas. Records of pest-control activities shall be maintained and produced to the concerned authority whenever required.

ANNEXURES – REPORTING, RECORD-KEEPING AND COMPLIANCE FORMATS

These formats are intended to standardize records required under the Guidelines. Daily/operational registers shall ordinarily be maintained at site. Periodic reports shall be submitted to MPCB wherever required under Consent, Environmental Clearance, specific direction/order, or whenever called for by the Board.

ANNEXURE – I

FORMAT FOR GAP ASSESSMENT AND TIME-BOUND COMPLIANCE PLAN FOR EXISTING WAREHOUSES

Name of Facility		**Address / Location**	
MPCB Consent No. & Validity		**EC Details, if applicable**	
Plot Area (sq. m.)		**Built-up Area (sq. m.)**	
Responsible Person & Contact		**Date of Gap Assessment**	

Sr. No.	Requirement	Clause	Present Status	Gap Identified	Corrective Measure	Target Date / Responsibility
1	Statutory permissions / Consent / EC	2	Complied / Partly / Not Complied			
2	Vehicle Movement & Dust Management Plan	3	Complied / Partly / Not Complied			
3	Paving of internal roads/truck movement areas	4	Complied / Partly / Not Complied			
4	Parking/holding area paving & management	5	Complied / Partly / Not Complied			
5	Mechanised road cleaning	6	Complied / Partly / Not			

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			Complied			
6	100 m road/approach road cleaning	6.3	Complied / Partly / Not Complied			
7	Automatic tyre washing / track-out control	7	Complied / Partly / Not Complied			
8	Dust suppression system	8	Complied / Partly / Not Complied			
9	Loading/unloading controls	9	Complied / Partly / Not Complied			
10	Dust-generating material storage controls	10	Complied / Partly / Not Complied			
11	Truck covering / transportation controls	11	Complied / Partly / Not Complied			
12	Vehicle idling / PUC / scheduling	12	Complied / Partly / Not Complied			
13	DG Set / RECD compliance	13	Complied / Partly / Not Complied			
14	Peripheral dust barrier	14	Complied / Partly / Not Complied			
15	Green belt / plantation	15	Complied / Partly / Not Complied			
16	PM10 / PM2.5 monitoring & display	16	Complied / Partly / Not Complied			
17	CCTV & 45-day retention	17	Complied / Partly / Not Complied			

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18	Storm-water / wastewater management	18	Complied / Partly / Not Complied			
19	Solid / hazardous waste management	19	Complied / Partly / Not Complied			
20	No Dust Control – No Operation systems	21	Complied / Partly / Not Complied			
21	Records and display board	23-24	Complied / Partly / Not Complied			
22	Rodent / Pest Control	29	Complied / Partly / Not Complied			

Immediate measures identified in Clause 26 shall be complied with forthwith. Infrastructure-intensive measures shall be completed within the period prescribed in the Guidelines or within any stricter period directed by MPCB.

ANNEXURE – II

PERIODIC ENVIRONMENTAL COMPLIANCE REPORT – WAREHOUSE / LOGISTICS FACILITY

To be submitted at the frequency specified in Consent / EC / MPCB direction, and otherwise maintained ready for production during inspection.

Reporting Period		**Facility Name**	
MPCB Consent No.		**EC No., if applicable**	
Responsible Officer		**Contact No./Email**	

Sr. No.	Compliance Parameter	Clause	Status	Details / Quantity / Observation	Corrective Action, if any
1	Internal roads and parking/holding areas paved and maintained dust-free	4, 5	Yes / No / NA		
2	Mechanical/vacuum sweeping undertaken as required	6	Yes / No / NA		
3	Approach/public road up to 100 m maintained clean/dust-free	6.3	Yes / No / NA		
4	Tyre-washing and recycling system operational	7	Yes / No / NA		
5	Dust suppression arrangements operational	8	Yes / No / NA		

6	Loading/unloading controls and spill removal complied with	9	Yes / No / NA		
7	Dust-generating materials stored/handled with prescribed controls	10	Yes / No / NA		
8	Dusty cargo vehicles covered and track-out prevented	11	Yes / No / NA		
9	Unnecessary idling controlled; valid PUC ensured	12	Yes / No / NA		
10	DG Set / RECD compliance maintained	13	Yes / No / NA		
11	Dust barrier and green belt maintained	14,15	Yes / No / NA		
12	PM10/PM2.5 monitoring, display, logging and connectivity functional	16	Yes / No / NA		
13	CCTV functional; minimum 45-day footage retained	17	Yes / No / NA		
14	Storm-water/wastewater systems maintained	18	Yes / No / NA		
15	Solid/hazardous waste managed through authorised route	19	Yes / No / NA		
16	No Dust Control – No Operation principle complied with	21	Yes / No / NA		
17	Display board and statutory information current	24	Yes / No / NA		
18	Complaints and corrective actions addressed	23,25	Yes / No / NA		
19	Rodent/pest control programme implemented	29	Yes / No / NA		

No. of incoming trucks during period		**No. of outgoing trucks during period**	
No. of complaints received		**No. of breakdown/non-compliance incidents**	
Waste sent for recycling/disposal		**Sludge generated/disposed/reused**	

Certification: I/We certify that the above information is true and based on records maintained at the facility.

Name & Designation of Authorised Signatory		**Signature & Date**	

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ANNEXURE – III

DAILY PRE-START / OPERATING ENVIRONMENTAL CHECKLIST

Facility		**Date**	
Shift		**Checked by**	
Sr. No.	**Check Point**	**Status**	**Remarks / Immediate Action**
1	Internal roads clean and in good condition	OK / Not OK / NA	
2	No loose dust/soil on truck movement areas	OK / Not OK / NA	
3	Parking/holding areas paved and clean	OK / Not OK / NA	
4	Mechanical/vacuum sweeping equipment operational	OK / Not OK / NA	
5	Water sprinkling/misting system functional	OK / Not OK / NA	
6	Tyre-washing system operational	OK / Not OK / NA	
7	Settling/recycling system operational	OK / Not OK / NA	
8	No visible mud/dust track-out at gate/public road	OK / Not OK / NA	
9	Loading/unloading areas clean	OK / Not OK / NA	
10	Loose/dusty material trucks covered	OK / Not OK / NA	
11	No unnecessary vehicle idling	OK / Not OK / NA	
12	CCTV functional and recording	OK / Not OK / NA	
13	PM10/PM2.5 monitoring system functional, wherever prescribed	OK / Not OK / NA	
14	DG-set pollution/noise controls functional	OK / Not OK / NA	
15	Storm-water drains free from waste/silt obstruction	OK / Not OK / NA	
16	Solid waste stored at designated locations	OK / Not OK / NA	
17	Previous complaints/non-compliance observations addressed	OK / Not OK / NA	
18	Roads up to 100 m outside premises cleaned	OK / Not OK / NA	
19	Rodent/pest nuisance or infestation not observed	OK / Not OK / NA	
Supervisor		**Time of Check**	

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Signature			

ANNEXURE – IV

MECHANISED ROAD CLEANING / APPROACH ROAD CLEANING LOG

Facility		Date	

Sr. No.	Time	Location / Stretch	Approx. Area/Length	Method / Equipment	Visible Dust Before	Visible Dust After	Operator	Supervisor Remarks
		Internal / Parking / Dock / Approach / 100 m road		Vacuum / Wet / Mechanical				
		Internal / Parking / Dock / Approach / 100 m road		Vacuum / Wet / Mechanical				
		Internal / Parking / Dock / Approach / 100 m road		Vacuum / Wet / Mechanical				
		Internal / Parking / Dock / Approach / 100 m road		Vacuum / Wet / Mechanical				
		Internal / Parking / Dock / Approach / 100 m road		Vacuum / Wet / Mechanical				
		Internal / Parking / Dock / Approach / 100 m road		Vacuum / Wet / Mechanical				
		Internal / Parking / Dock / Approach / 100 m road		Vacuum / Wet / Mechanical				
		Internal / Parking / Dock / Approach / 100 m road		Vacuum / Wet / Mechanical				

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		Internal / Parking / Dock / Approach / 100 m road		Vacuum / Wet / Mechanical				
		Internal / Parking / Dock / Approach / 100 m road		Vacuum / Wet / Mechanical				
		Internal / Parking / Dock / Approach / 100 m road		Vacuum / Wet / Mechanical				
		Internal / Parking / Dock / Approach / 100 m road		Vacuum / Wet / Mechanical				

ANNEXURE – V

WATER SPRINKLING / MISTING / DUST SUPPRESSION LOG

Date	Time	System Used	Location	Duration	Water Used (KL), if measured	Reason / Dust Condition	Operator / Remarks
		Sprinkler / Mist / Fogger					
		Sprinkler / Mist / Fogger					
		Sprinkler / Mist / Fogger					
		Sprinkler / Mist / Fogger					
		Sprinkler / Mist / Fogger					
		Sprinkler / Mist / Fogger					
		Sprinkler / Mist / Fogger					

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		Sprinkler / Mist / Fogger					
		Sprinkler / Mist / Fogger					
		Sprinkler / Mist / Fogger					
		Sprinkler / Mist / Fogger					
		Sprinkler / Mist / Fogger					

ANNEXURE – VI

TYRE-WASHING, WATER RECYCLING AND SLUDGE MANAGEMENT LOG

Date	Shift/Time	Tyre Wash Operational (Y/N)	Vehicles Passed	Recycle System Status	Fresh Water Added (KL)	Sludge Removed (kg/MT)	Disposal/Reuse Details	Breakdown / Action Taken

ANNEXURE – VII

DAILY VEHICLE MOVEMENT, COVERING, IDLING AND TRACK-OUT SUMMARY

Date / Shift	Incoming Trucks	Outgoing Trucks	Peak Queue	Dusty Cargo Trucks Checked	Covered (Nos.)	Idling Violations	Track-out Incidents	Corrective Action / Remarks

ANNEXURE – VIII

PM10 / PM2.5 MONITORING, SENSOR OPERATION AND CALIBRATION RECORD

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Sensor ID / Make				Location			
Upwind/Downwind/Boundary				Data Connectivity to MPCB		Yes / No	
Date	**Time / Period**	**PM10 (µg/m³)**	**PM2.5 (µg/m³)**	**Sensor Status**	**Display Status**	**Connectivity / Data Gap**	**Remarks / Action**

Sensor Calibration / Verification / Maintenance Record

Date	Activity	Agency / Person	Reference Standard / Method	Result	Next Due Date / Remarks

ANNEXURE – IX

DG SET / RECD OPERATION AND MAINTENANCE LOG

DG Set Capacity (kVA)				Make / Model			
Year of Manufacture				RECD Applicable		Yes / No	
RECD Make / Certificate Details				Stack / Acoustic Enclosure Status			
Date	**Start Time**	**Stop Time**	**Run Hours**	**Reason for Operation**	**RECD Status**	**Maintenance / Observation**	**Fuel / Remarks**

ANNEXURE – X

SOLID / HAZARDOUS WASTE, SPOILED GOODS AND PACKAGING WASTE REGISTER

Date	Waste Type	Category (Solid/Hazardous/Packaging/Spoiled Goods)	Quantity	Storage Location	Authorised Recycler/Disposer	Manifest/Receipt No.	Date of Disp	Remarks

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ANNEXURE – XI

PUBLIC COMPLAINT / NUISANCE AND CORRECTIVE ACTION REGISTER

Complaint No.	Date & Time	Nature of Complaint	Complainant / Location	Initial Verification	Immediate Action	Root Cause	Corrective / Preventive Action	Closure Date / Verification
		Dust / Traffic / Noise / Waste / Rodent-Pest / Other						
		Dust / Traffic / Noise / Waste / Rodent-Pest / Other						
		Dust / Traffic / Noise / Waste / Rodent-Pest / Other						
		Dust / Traffic / Noise / Waste / Rodent-Pest / Other						
		Dust / Traffic / Noise /						

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		Waste / Rodent-Pest / Other						
		Dust / Traffic / Noise / Waste / Rodent-Pest / Other						
		Dust / Traffic / Noise / Waste / Rodent-Pest / Other						
		Dust / Traffic / Noise / Waste / Rodent-Pest / Other						

ANNEXURE – XII

BREAKDOWN / NON-COMPLIANCE AND CORRECTIVE-PREVENTIVE ACTION (CAPA) REPORT

Incident / NCR No.		**Date & Time**	
Location / System		**Reported by**	

Description of breakdown / non-compliance:

Environmental impact / potential impact:

Immediate containment / activity restriction taken under "No Dust Control – No Operation" principle:

Root cause:

Corrective action:

Preventive action:

Responsible person:

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Target completion date:

Actual completion date:

Verification of effectiveness:

Closed by / Designation		**Signature & Date**	

ANNEXURE – XIII

RODENT / PEST CONTROL INSPECTION AND TREATMENT REGISTER

Facility				**Pest-control Agency, if engaged**				
Licence/Authorisation Details, if applicable				**Responsible Facility Officer**				
Date	**Area Inspected**	**Pest / Rodent Observed**	**Evidence / Infestation Level**	**Preventive / Control Measure**	**Chemical / Method Used**	**Neighbouring Nuisance Observed (Y/N)**	**Follow-up Date**	**Remarks / Signature**
		Rodent / Insect / Other						
		Rodent / Insect / Other						
		Rodent / Insect / Other						
		Rodent / Insect / Other						
		Rodent / Insect / Other						
		Rodent / Insect / Other						
		Rodent / Insect / Other						
		Rodent						

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		/ Insect / Other						
		Rodent / Insect / Other						
		Rodent / Insect / Other						

Pest-control chemicals, where used, shall be handled and applied safely and in accordance with applicable legal requirements and manufacturer instructions. The objective of this register is to demonstrate prevention of infestation, migration and nuisance to surrounding premises.

ANNEXURE – XIV

MPCB / COMPETENT AUTHORITY INSPECTION AND COMPLIANCE VERIFICATION FORMAT

Facility Name		**Inspection Date & Time**	
MPCB Region / Sub-Region		**Inspecting Officers**	
Representative of Facility		**Weather / Wind Condition**	

Sr. No.	Inspection Point	Status	Observation / Evidence	Geo-tagged Photo / Video Ref.
1	EC applicability/status	Complied / Partly / Not Complied / NA		Photo Ref.
2	CTE/CTO status	Complied / Partly / Not Complied / NA		Photo Ref.
3	Plot/built-up area verified	Complied / Partly / Not Complied / NA		Photo Ref.
4	Daily/peak truck movement verified	Complied / Partly / Not Complied / NA		Photo Ref.
5	Internal roads condition	Complied / Partly / Not Complied / NA		Photo Ref.
6	Parking/holding paving	Complied / Partly / Not Complied / NA		Photo Ref.
7	Loading/unloading areas	Complied / Partly / Not Complied / NA		Photo Ref.
8	Dust accumulation on roads	Complied /		Photo Ref.

		Partly / Not Complied / NA		
9	Mechanical/vacuum cleaning operation	Complied / Partly / Not Complied / NA		Photo Ref.
10	Tyre-washing facility operation	Complied / Partly / Not Complied / NA		Photo Ref.
11	Track-out at gate/public road	Complied / Partly / Not Complied / NA		Photo Ref.
12	Truck covering compliance	Complied / Partly / Not Complied / NA		Photo Ref.
13	Vehicle idling control	Complied / Partly / Not Complied / NA		Photo Ref.
14	Water sprinkling/misting operation	Complied / Partly / Not Complied / NA		Photo Ref.
15	CCTV and 45-day records	Complied / Partly / Not Complied / NA		Photo Ref.
16	PM10/PM2.5 monitoring	Complied / Partly / Not Complied / NA		Photo Ref.
17	DG-set / RECD compliance	Complied / Partly / Not Complied / NA		Photo Ref.
18	Storm-water/wash-water management	Complied / Partly / Not Complied / NA		Photo Ref.
19	Waste/sludge management	Complied / Partly / Not Complied / NA		Photo Ref.
20	Nearby habitation/sensitive receptors	Complied / Partly / Not Complied / NA		Photo Ref.
21	Complaints and corrective actions	Complied / Partly / Not Complied / NA		Photo Ref.
22	Approach roads / 100 m outside cleaning	Complied / Partly / Not Complied / NA		Photo Ref.
23	Rodent / pest nuisance control	Complied / Partly / Not Complied / NA		Photo Ref.

Inspection Conclusion / Directions

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Major non-compliances observed:

Immediate directions issued:

Time-bound actions required:

Whether re-inspection required and due date:

Inspecting Officer Signature		**Facility Representative Signature**	

ANNEXURE – XV

GEO-TAGGED PHOTOGRAPH / VIDEO COMPLIANCE INDEX

Sr. No.	Date & Time	Location	Compliance Item	Photo / Video File Ref.	Geo-tag / Coordinates / Location Stamp	Remarks

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