

1. Waste Burning

Short-Term Measures:

- ✓ **Strict Enforcement:** Immediate penalties for waste burning under the NGT (National Green Tribunal) guidelines.
- ✓ **Surveillance:** Deploy drones and on-ground teams to monitor open burning.
- ✓ **Awareness Campaigns:** Educate citizens and waste collectors on alternatives to burning.
- ✓ **Biodegradable Waste Management:** Promote composting and bio-methanation for organic waste.
- ✓ **Provide Alternative Solutions:** Set up collection centers for dry leaves and agricultural residue.

Long-Term Measures:

- ✓ **Infrastructure Development:** Invest in waste segregation, recycling plants, and waste-to-energy facilities.
- ✓ **Strengthening SWM (Solid Waste Management):** Ensure 100% waste segregation and doorstep collection.
- ✓ **Circular Economy Approach:** Incentivize industries to use recycled materials from waste.
- ✓ **Legislation:** Strengthen policies against illegal burning with heavier fines and better enforcement.

2. Construction & Demolition (C&D) Waste

Short-Term Measures:

- ✓ **Dust Control Measures:** Mandate water sprinkling, dust barriers, and green netting on construction sites.
- ✓ **Ban on Open Storage:** Restrict roadside dumping of debris and ensure covered transport of C&D waste.
- ✓ **Real-Time Monitoring:** Use sensors and satellite-based tracking for major construction sites.
- ✓ **Strict Compliance:** Enforce environmental clearances with heavy penalties for violators.

Long-Term Measures:

- ✓ **C&D Waste Recycling Plants:** Promote mandatory use of recycled bricks, aggregates, and concrete.
- ✓ **Urban Planning Integration:** Designate specific dumping and processing sites for debris.
- ✓ **Technology Adoption:** Encourage dust suppression systems like anti-smog guns and mist sprayers.
- ✓ **Policy Reforms:** Develop regulations making green building norms and low-dust construction mandatory.

3. Vehicle Pollution

Short-Term Measures:

- ✓ **Strict Emission Norms:** Enforce PUC (Pollution Under Control) certificates with strict checks.
- ✓ **Vehicle-Free Zones:** Introduce pedestrian-friendly zones in key commercial areas.
- ✓ **Odd-Even Scheme:** Temporary vehicle rationing during severe air pollution episodes.
- ✓ **Public Transport Boost:** Increase frequency of electric buses and promote last-mile connectivity.
- ✓ **Carpooling & Remote Work:** Encourage offices to implement carpooling and WFH (work-from-home) policies.

Long-Term Measures:

- ✓ **Transition to Electric Vehicles (EVs):** Set up more EV charging stations and incentivize EV purchases.
- ✓ **Sustainable Public Transport:** Expand metro and bus rapid transit systems to reduce dependence on private vehicles.
- ✓ **Urban Planning for Walkability:** Improve cycling lanes, footpaths, and pedestrian infrastructure.
- ✓ **Fuel Quality Improvement:** Promote cleaner fuels like CNG, hydrogen fuel, and biofuels.

4. Brick Kilns

Short-Term Measures:

- ✓ **Temporary Closure:** Shut down brick kilns during peak pollution seasons (October-February).
- ✓ **Zig-Zag Technology:** Mandate the use of energy-efficient zig-zag kiln technology to reduce emissions.
- ✓ **Emission Monitoring:** Install real-time air quality monitoring systems at kiln sites.

Long-Term Measures:

- ✓ **Incentivize Cleaner Alternatives:** Promote fly ash bricks and AAC (Autoclaved Aerated Concrete) blocks.
- ✓ **Relocation:** Move kilns away from urban and high-density areas.
- ✓ **Technology Upgradation:** Encourage transition to electric kilns or solar-powered brick-making units.
- ✓ **Policy Interventions:** Implement a cap-and-trade mechanism to control emissions from kilns.

5. Industrial Pollution

Short-Term Measures:

- ✓ **Strict Compliance Checks:** Regular audits for pollution control violations and heavy fines for non-compliance.
- ✓ **Emission Control Devices:** Mandate use of scrubbers, electrostatic precipitators, and bag filters.
- ✓ **Air Quality Monitoring:** Install real-time monitoring stations near industrial clusters.
- ✓ **Staggered Operations:** Restrict industrial operations during peak pollution hours.

Long-Term Measures:

- ✓ **Transition to Clean Energy:** Promote solar, wind, and gas-based power for industries.
- ✓ **Relocation & Zoning:** Shift highly polluting industries to designated industrial zones away from residential areas.

- ✓ Green Incentives: Offer tax benefits and subsidies to industries adopting green manufacturing processes.
- ✓ Circular Economy Implementation: Encourage resource recycling and zero-emission industrial processes.