



**MANIPUR POLLUTION CONTROL BOARD**  
**IMPHAL WEST DC OFFICE COMPLEX**  
**LAMPHELPAT-795004**

**OFFICE MEMORANDUM**  
Imphal, the 8<sup>th</sup> September, 2025

No. PCB/567/2024-25: In supersession of all previous office orders, memoranda, etc. issued in this regard, the Red category sectors/industries in respect of Manipur State shall be as below:

**RED CATEGORY SECTORS**

| Sl. No. | Particulars                                                                                                     | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Manufacturing of Automobiles (integrated facilities)                                                            | <ul style="list-style-type: none"><li>i. Such types of plants are having either one or combinations of polluting activities viz. washing, metal surface finishing operations, pickling, plating, electro-plating, phosphating, painting, heat treatment etc.</li><li>ii. Some of such plants may outsource some /all of the polluting activities or may have stand-alone units. In such cases, MPCB will recategorize after thorough inspection of such units.</li></ul> |
| 2       | Asbestos and asbestos-based industries                                                                          | Asbestos is carcinogenic and banned in many countries.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3       | Autoclaved Aerated Concrete (AAC) bricks/blocks manufacturing using coal as fuel (12 TPD and above)             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4       | Manufacturing of non-alcoholic beverages (Wastewater generation $\geq$ 100 KLD)                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5       | Lead-acid Battery manufacturing (excluding assembling and charging of lead-acid battery in microscale)          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 6       | Carbon black manufacturing                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 7       | Industrial carbon, including electrodes & graphite blocks and calcined pet coke manufacturing                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 8       | Manufacturing of basic inorganic chemicals, chemicals and its derivatives, including the manufacturing of acids |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 9       | Phosphorus and its compounds, including phosphorus rock processing                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 10      | Manufacturing of chlorates, perchlorates & peroxides                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 11      | Manufacturing of chlorine, fluorine, bromine, iodine, and their compounds                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|    |                                                                                                                              |                                                                                                                                                                                                                                                                                                  |
|----|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12 | Coke oven plant, coal liquefaction, coal tar distillation and fuel gas-making                                                |                                                                                                                                                                                                                                                                                                  |
| 13 | Cement Plant with co-processing with CPP (Captive Power Plant)                                                               |                                                                                                                                                                                                                                                                                                  |
| 14 | Cement plant with co-processing without CPP                                                                                  |                                                                                                                                                                                                                                                                                                  |
| 15 | Cement Plant without co-processing with CPP                                                                                  |                                                                                                                                                                                                                                                                                                  |
| 16 | Cement Plant without co-processing without CPP                                                                               |                                                                                                                                                                                                                                                                                                  |
| 17 | Stand-alone grinding units for Cement Plants with CPP                                                                        |                                                                                                                                                                                                                                                                                                  |
| 18 | Manufacturing of chlor-alkali                                                                                                |                                                                                                                                                                                                                                                                                                  |
| 19 | Manufacturing chlor-alkali using washed salt                                                                                 |                                                                                                                                                                                                                                                                                                  |
| 20 | Manufacturing chlor-alkali using cleaner/gaseous fuel                                                                        |                                                                                                                                                                                                                                                                                                  |
| 21 | Ceramics/ Glass /Earthen potteries and tile manufacturing using coal/oil-fired kilns (fuel consumption: 12 TPD and above)    |                                                                                                                                                                                                                                                                                                  |
| 22 | Production of Dyes, Dye Intermediates and Pigments produced by chemical synthesis                                            |                                                                                                                                                                                                                                                                                                  |
| 23 | Production of Natural Dye and Pigments requiring acidic/ alkaline/solvent extraction                                         |                                                                                                                                                                                                                                                                                                  |
| 24 | Manufacturing of synthetic detergents and soaps (wastewater generation $\geq$ 100 KLD)                                       |                                                                                                                                                                                                                                                                                                  |
| 25 | Distillery (Molasses-based) industry                                                                                         |                                                                                                                                                                                                                                                                                                  |
| 26 | Distillery (Grain-based)                                                                                                     |                                                                                                                                                                                                                                                                                                  |
| 27 | Distillery (Grain-based) with Distiller's Dried Grains with Soluble (DDGS) as byproduct                                      |                                                                                                                                                                                                                                                                                                  |
| 28 | Standalone yeast manufacturing units                                                                                         |                                                                                                                                                                                                                                                                                                  |
| 29 | Breweries and malteries industry (with fermentation)- Wastewater generation $\geq$ 100 KLD                                   |                                                                                                                                                                                                                                                                                                  |
| 30 | Manufacturing of Explosives, detonators, fuses, etc.                                                                         |                                                                                                                                                                                                                                                                                                  |
| 31 | Synthetic fibres-PSF & PFY, generated from petrochemical                                                                     |                                                                                                                                                                                                                                                                                                  |
| 32 | Synthetic fibres, including rayon, tyre cord, viscose filament yarn/staple fibre, acrylic fibres                             |                                                                                                                                                                                                                                                                                                  |
| 33 | Synthetic fibres, including rayon, tyre cord, viscose filament yarn/staple fibre, acrylic fibres, using cleaner/gaseous fuel |                                                                                                                                                                                                                                                                                                  |
| 34 | Production of Fertilisers (Urea)                                                                                             |                                                                                                                                                                                                                                                                                                  |
| 35 | Production of Fertilisers (Calcium Ammonium Nitrate/ Ammonium Nitrate)                                                       |                                                                                                                                                                                                                                                                                                  |
| 36 | Production of Fertilisers (NPK)                                                                                              |                                                                                                                                                                                                                                                                                                  |
| 37 | Production of Fertilizers (Straight Phosphatic Fertilizers)                                                                  |                                                                                                                                                                                                                                                                                                  |
| 38 | Manufacturing of glue and gelatin using coal/liquid fuel                                                                     |                                                                                                                                                                                                                                                                                                  |
| 39 | Integrated unit for the production of Ammonia through Hydrogen generated by pyrolysis/gasification                           | <ul style="list-style-type: none"> <li>i. Pyrolysis of biomass will generate syngas and other condensable gases having hydrocarbons and other impurities.</li> <li>ii. Purification of gas will generate wastewater having high organic content and tarry residue as hazardous waste.</li> </ul> |



|    |                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                                                                                                                   | iii. The process will generate fugitive emissions and due to the pyrolysis operation.                                                                                                                                                                                                                                                                                                                                                                                   |
| 40 | Integrated unit for production of ammonia through Hydrogen generated by electrolysis using renewable energy (capacity $\geq$ 15 TPD)                                              | <ul style="list-style-type: none"> <li>i. Ammonia manufacturing process (Haber process) and associated safety hazards remain the same as per the chemical properties of ammonia.</li> <li>ii. Wastewater generation due to the production of hydrogen through electrolysis and condensation of ammonia, other scrubbed liquids etc.</li> <li>iii. Generation of ETP sludge, exhausted membranes, molecular sieves, spent catalysts, etc. as hazardous waste.</li> </ul> |
| 41 | Hydrogen production through pyrolysis/ gasification                                                                                                                               | <ul style="list-style-type: none"> <li>i. Pyrolysis of biomass will generate syngas and other condensable gases having hydrocarbons and other impurities.</li> <li>ii. Purification of gas will generate wastewater having high organic content and tarry residue as hazardous waste.</li> <li>iv. The process will generate fugitive emissions and due to the pyrolysis operation.</li> </ul>                                                                          |
| 42 | Hazardous waste preprocessing/processing facility, including spent acid processing, spent solvent recovery, etc.                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 43 | Milk processing and dairy products (integrated project)                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 44 | Dairy and dairy products (Small-scale units), using coal/biomass as fuel (Wastewater generation $\geq$ 100 KLD)                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 45 | Open-cast coal mining                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 46 | Underground coal mining                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 47 | Mining of major minerals and ore beneficiation                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 48 | Integrated iron and steel plants                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 49 | Stand-alone sintering/palletisation                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 50 | Sponge iron with CPP (Captive Power Plant)                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 51 | Sponge iron without CPP                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 52 | Stand-alone coke oven gas plants                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 53 | Aluminium Refinery                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 54 | Aluminium Smelter                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 55 | Copper Smelter                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 56 | Zinc smelter                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 57 | All Ferrous and Non-ferrous metal secondary processing/reprocessing units involving different furnaces through melting, refining, casting, alloy-making (using coal/liquid fuels) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|    |                                                                                                                                                                                                                     |  |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 58 | Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing/enamelling/galvanising |  |
| 59 | Rolling and pickling                                                                                                                                                                                                |  |
| 60 | Wire drawing and wire netting (with pickling)                                                                                                                                                                       |  |
| 61 | Organic chemicals including halogenated hydrocarbons (using solid/liquid fuel)                                                                                                                                      |  |
| 62 | Organic chemicals, including halogenated hydrocarbons (using cleaner fuel)                                                                                                                                          |  |
| 63 | Oil and gas extraction (offshore & onshore extraction through drilling wells), Coal Bed Methane (CBM) drilling and shale gas, including group gathering stations (GGS), etc.                                        |  |
| 64 | Power plants based on coal                                                                                                                                                                                          |  |
| 65 | Power plants based on liquid fuels                                                                                                                                                                                  |  |
| 66 | Waste to energy power plants                                                                                                                                                                                        |  |
| 67 | Biomass-based power plants                                                                                                                                                                                          |  |
| 68 | Nuclear energy-based power plants (> 220 MW)                                                                                                                                                                        |  |
| 69 | Manufacturing of bleached chemical pulp, papers, and paperboards                                                                                                                                                    |  |
| 70 | Unbleached or Totally Chlorine Free (TCF) bleaching for the manufacturing of chemical pulp, papers, and paperboards                                                                                                 |  |
| 71 | Bleached grades of chemical pulp, paper, and paperboard having Totally Chlorine Free (TCF) bleaching                                                                                                                |  |
| 72 | Pulp & Paper (With bleaching)                                                                                                                                                                                       |  |
| 73 | Pulp & Paper (Without bleaching, capacity $\geq 15$ TPD)                                                                                                                                                            |  |
| 74 | Manufacturing of solvent-based paints/varnishes                                                                                                                                                                     |  |
| 75 | Manufacturing of water-based paints                                                                                                                                                                                 |  |
| 76 | Manufacturing of powder coatings                                                                                                                                                                                    |  |
| 77 | Pesticide technical (organic chemicals based)                                                                                                                                                                       |  |
| 78 | Pesticide technical (inorganic chemicals, based like Zinc Phosphide and Aluminium Phosphide)                                                                                                                        |  |
| 79 | Pesticide formulation industries (Liquid formulation only) having boiler/thermopack                                                                                                                                 |  |
| 80 | Pesticide formulation industries (having both liquid and dry formulation or dry formulation only) without having boiler /thermopack                                                                                 |  |
| 81 | Pesticide formulation industries (having both liquid and dry formulation or dry formulation only) having boiler / thermopack                                                                                        |  |
| 82 | Petroleum oil refineries                                                                                                                                                                                            |  |
| 83 | Petrochemicals (Naphtha cracker.)                                                                                                                                                                                   |  |
| 84 | Petrochemicals (Gas cracker)                                                                                                                                                                                        |  |
| 85 | Petrochemicals (without cracker)                                                                                                                                                                                    |  |
| 86 | Petrochemicals (without cracker and using cleaner/gaseous fuel)                                                                                                                                                     |  |
| 87 | Pharmaceuticals manufacturing                                                                                                                                                                                       |  |
| 88 | Pharmaceuticals manufacturing using cleaner/gaseous fuel                                                                                                                                                            |  |



|     |                                                                                                                                                                                                                                                           |  |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 89  | Refractories based on coal/liquid fuel (fuel consumption: 12 TPD and above)                                                                                                                                                                               |  |
| 90  | Synthetic resins manufacturing                                                                                                                                                                                                                            |  |
| 91  | Hydro & pyro metallurgy                                                                                                                                                                                                                                   |  |
| 92  | Hydro & pyro metallurgy (using cleaner/gaseous fuels & without crushing of materials)                                                                                                                                                                     |  |
| 93  | Pyrometallurgy (using coal/liquid fuels)                                                                                                                                                                                                                  |  |
| 94  | Industry engaged in recycling of e-waste generated from the electrical and electronic Equipment (EEE) listed in the E-Waste (Management) Rules 2022, using pyro/ hydro/ electrometallurgical processing and recycling of plastic separated from Waste EEE |  |
| 95  | Lead Recycling (Lead Acid Batteries with Acids; Lead Scrap Recycling) Rotary Furnace/ Pit Furnace (Mandir/Canopy Bhatti)                                                                                                                                  |  |
| 96  | Lead Recycling (Drained Lead Acid Batteries; Lead Scrap Recycling) Rotary Furnace/Mandir Bhatti on Cleaner Fuel                                                                                                                                           |  |
| 97  | Sugar (excluding khandsari/jaggery)                                                                                                                                                                                                                       |  |
| 98  | Slaughterhouse / Slaughterhouse (With rendering plant)/ integrated slaughtering unit, meat processing units, bone mill, processing of animal horns, hoofs and other body parts                                                                            |  |
| 99  | Semiconductor fabs manufacturing                                                                                                                                                                                                                          |  |
| 100 | Display fabs manufacturing                                                                                                                                                                                                                                |  |
| 101 | Compound semiconductors/ silicon photonics/ sensor fabs manufacturing                                                                                                                                                                                     |  |
| 102 | Tanneries (Raw to finish)                                                                                                                                                                                                                                 |  |
| 103 | Tanneries (Raw to wet blue)                                                                                                                                                                                                                               |  |
| 104 | Tanneries (Wet blue to finish)                                                                                                                                                                                                                            |  |
| 105 | Yarn / Textile processing involving any effluent/emission-generating processes including bleaching, dyeing, printing, and colouring, including the garment and apparel manufacturing industry                                                             |  |
| 106 | Integrated facility for the reprocessing of waste textiles fabric (including washing, bleaching, dyeing etc.)                                                                                                                                             |  |
| 107 | Common Effluent Treatment Plant (CETP) having Multiple Effect Evaporator (MEE)/spray drier                                                                                                                                                                |  |
| 108 | CETP (without having MEE/spray drier), Common MEE/common spray driers                                                                                                                                                                                     |  |
| 109 | Common Sewage-Effluent Treatment Plant (CSETP)                                                                                                                                                                                                            |  |
| 110 | Effluent conveyance projects                                                                                                                                                                                                                              |  |
| 111 | Integrated facility (Secured landfill and incinerator) for hazardous waste                                                                                                                                                                                |  |
| 112 | Only secured a landfill for hazardous waste                                                                                                                                                                                                               |  |
| 113 | Only incinerator for hazardous waste                                                                                                                                                                                                                      |  |
| 114 | Common Biomedical Waste Treatment Facility (CBWTF)                                                                                                                                                                                                        |  |
| 115 | CBWTF using cleaner/gaseous fuel                                                                                                                                                                                                                          |  |
| 116 | Health Care Facilities (HCFs) with a captive incinerator, irrespective of the number of beds                                                                                                                                                              |  |
| 117 | HCFs with more than 1000 beds                                                                                                                                                                                                                             |  |

|     |                                                                                                                 |  |
|-----|-----------------------------------------------------------------------------------------------------------------|--|
| 118 | HCFs with 501 to 1,000 beds                                                                                     |  |
| 119 | Hotels (above 3 star) or having 100 & more rooms                                                                |  |
| 120 | Ports and harbours, jetties and dredging operations                                                             |  |
| 121 | Dairy Farm (having more than 500 animals)                                                                       |  |
| 122 | Hydel power plants (Capacity > 50 MW)                                                                           |  |
| 123 | Mining lease area more than 5 hectares or Mining lease area up to 5 hectares, which is part of a cluster mining |  |

*o/c*

*Dr*  
*08/09/2025*

(Dr W. Roshan Singh)  
Member Secretary

Manipur Pollution Control Board  
Imphal, the 8<sup>th</sup> September, 2025

Memo No. PCB/567/2024-25

Copy to:

1. The PS to the Principal Secretary (For., Env't. & CC), Govt. of Manipur
2. The Director (Trade, Commerce & Industries), Govt. of Manipur
3. The Director (Environment & Climate Change), Govt. of Manipur
4. Dr Wazir Alam, Asst. Professor, MU
5. Shri M. Bangajit Singh, AEE, MPCB
6. The Informatics Officer, MPCB. He is to upload the office memorandum to the Board's website
7. The Administrative Officer, MPCB
8. Notice Board
9. Guard file

*o/c*

*Dr*  
*08/09/2025*

(Dr W. Roshan Singh)  
Member Secretary

Manipur Pollution Control Board

\*\*\*\*\*