

APPENDICES

Category of Industries

To simplify the procedures and to categorize the industrial projects on the basis of the pollution potential in a simple way so that common person can understand the severity of pollution from a specific industry, it is required to categorise the industries or projects in three broad categories viz. Red, Orange and Green in decreasing order of severity of pollution. As the ecological configuration and sensitivity together with geo-meteorological parameters widely from place to place there cannot be a uniform classification throughout the country.

In this classification, "Red" represents highly polluting industries, 'Orange' represents moderately polluting industries and 'Green' represents marginally polluting units. This classification helps the common people to understand about pollution as well as prioritization of plans and programmes of pollution control and surveillance according pollution potential of a particular category of industry. The State Board has adopted the following classification in each category of industries/projects.

I LIST OF INDUSTRIES UNDER "RED" CATEGORIES

A Industries identified by Ministry of Environment & Forests, Government of India as heavily polluting and covered under Central Action Plan. Viz;

1. Aluminium smelter
2. Cement
3. Chlor alkali
4. Copper smelter.
5. Distillery including Fermentation industry
6. Dyes and Dye-intermediates.
7. Fertilizer (Basic) (excluding formulation)
8. Iron and Steel (Involving processing from ore/scrap/Integrated steel plants.)
9. Oil refinery (Mineral oil or Petro refineries).
10. Pesticides (Technical) (excluding formulation).
11. Petrochemicals (Manufacture of and not merely use of as raw material)
12. Pharmaceuticals (excluding formulation).
13. Pulp and Paper (Paper manufacturing with or without pulping).
14. Sugar (excluding Khandsari)
15. Tanneries.
16. Thermal power plants.
17. Zinc smelter.

B Industries manufacturing following products or carrying out following activities :-

18. Anodizing
19. Asbestos and asbestos-based industries.
20. Automobile manufacturing / assembling
21. Ceramic/refractories.
22. Chemical, petrochemical and electrochemical including manufacture of acids such as Sulphuric Acid, Nitric Acid, Phosphoric Acid etc.
23. Chlorates, perchlorates and peroxides.
24. Chlorine, fluorine, bromine, iodine and their compounds.
25. Coke making, coal liquefaction, coaltar distillation or fuel gas making.
26. Common Effluent Treatment Plant
27. Dry coal processing/Mineral processing industries like ore sintering, palletization etc.
28. Explosive including detonators, fuses etc.
29. Fermentation industry including manufacture of yeast, beer etc.
30. Fire crackers.
31. Foundries
32. Glass and fiber glass production and processing (excluding moulding).
33. Glue and gelatin.
34. Heavy Engineering
35. Hospitals
36. Hot mix plants
37. Hydrocyanic acid and its derivatives.
38. Incineration plant.
39. Industrial carbon including electrodes and graphite blocks, activated carbon, carbon black etc.
40. Industrial or inorganic gases namely (a) Chemical gases: Acetylene, Hydrogen, Chlorine, Fluorine, Ammonia, Sulphur Dioxide, Ethylene, Hydrogen Sulphide, Phosphine. (b) Hydrocarbon Gases: Methane, Butane, Ethane, Propane.
41. Industry or process involving electroplating operations.
42. Industry or process involving foundry operations.
43. Industry or process involving metal treatment or processes such as pickling, surface coating, paint baking, paint stripping, heat treatment, phosphating or finishing etc.
44. Lead re-processing and manufacturing including lead smelting.
45. Lime manufacturing.
46. Lubricating oils, greases or petroleum - based products.

47. Milk processing and dairy products (Integrated project)
48. Mining and ore-beneficiation.
49. Organic Chemical manufacturing
50. Parboiled rice mills
51. Paints and varnishes (excluding blending / mixing).
52. Petroleum products manufacturing & oil / crude oil/ residues reprocessing
53. Phosphorous rock processing plants.
54. Phosphorous and its compounds.
55. Photographic films and chemicals.
56. Pigments and intermediates.
57. Potable alcohol (IMFL) by blending or distillation of alcohol.
58. Power generating plants (excluding D.G. Sets)
59. Processes involving chlorinated hydrocarbon.
60. Ship breaking
61. Slaughter houses and meat processing units.
62. Steel and steel products including coke plants involving use of any of the equipments such as blast furnaces, open hearth Furnace, induction furnace or arc furnace etc. or any of the operations or processes such as heat treatment, acid pickling, rolling or galvanizing etc.
63. Stone crushers.
64. Surgical and medical products involving prophylactics and latex.
65. Synthetic detergent and soap.
66. Synthetic fibers including rayon, tyre cords, polyester filament yarn.
67. Synthetic resins.
68. Synthetic rubber excluding moulding.
69. Tobacco products including cigarettes and tobacco processing.
70. Vegetable oils including solvent extracted oils, hydrogenated oils.
71. Yarn and textile processing involving scouring, bleaching, dyeing, printing or any effluent/emission generating process.

II LIST OF INDUSTRIES UNDER "ORANGE" CATEGORIES

A Industries identified by Ministry of Environment & Forests, Government of India under "Orange" Category.

1. Automobile servicing and repairs stations.
2. Brick Manufacturing
3. Cashewnut processing plants (dry process).

4. Cement clinker grinding units.
5. Cotton ginning, spinning and weaving.
6. Fish processing
7. Flour mills (excluding Domestic Aatta Chakki)
8. Food additives, nutrients and flavours.
9. Food including fruits and vegetable processing
10. Fragrances and industrial perfumes
11. Hotels and restaurants
12. Instant tea/coffee, coffee processing.
13. Khandsari sugar.
14. Laboratory chemicals involving distillation, purification process.
15. Laboratory-wares.
16. Lead-acid battery reconditioning/assembling
17. Malted food.
18. Manufacture of mirror from sheet glass and photoframing
19. Manufacture of synthetic detergent intermediates (other than formulated synthetic detergent products)
20. Manufacture of soaps (process generating trade effluent).
21. Metal treatment or process involving surface coating and paint baking.
22. Non-alcoholic beverages (soft drinks)
23. NPK Fertilizers/Granulation.
24. Organic nutrients
25. Pesticides/Insecticides/Fungicides/Herbicides/Agrochemical formulation.
26. Petroleum products/crude oil storage and transfer excluding cross-country pipeline.
27. Pharmaceuticals formulations.
28. Plywood and Board manufacturing.
29. Pre-boiled rice mills
30. Pulping and fermenting of coffee beans.

31. Pulverizing units
32. Surgical and medical products not involving effluents/emission generating processes.
33. Tyres and tubes vulcanisation, vulcanisation, retreading moulding.
34. Wire drawing (cold process) and bailing straps.

III LIST OF INDUSTRIES UNDER "GREEN" CATEGORIES

A Industries in Small Scale, Cottage/Village category suggested under notification of the State Government for issuance of simplified NOC/Consent from State Pollution Control Board as the case may be

B All those industries or processes which are not covered under the "Red" and/or "Orange" category; entries not generating process effluents or emissions. An illustrative list is provided below:

1. Apparel making
2. Assembly of air coolers, conditioners.
3. Assembly of bicycles, baby carriages and other small non-motorised vehicles.
4. Aatta-chakkies
5. Bakery products, biscuits, confectionery
6. Bamboo and cane products (only dry operations)
7. Block making for printing.
8. Bulk Cement terminal
9. Cardboard or corrugated box and paper products (Paper or pulp manufacturing excluded.)
10. Carpet weaving
11. Chilling plants and cold storages.
12. Cotton and woolen hosiery
13. Dal mills.
14. Electronic and electrical goods.
15. Electronics equipment (Assembly)
16. Footwear (rubber)
17. Fountain pens.
18. Garments stitching, tailoring

19. Gold and Silver smithy
20. Gold and silver thread zari work
21. Groundnut decorticating (dry)
22. Ice cream or Ice-making.
23. Industrial gases, namely: Air, Oxygen, Nitrogen, Argon, Helium, carbon Dioxide, Nitrous Oxide.
24. Insulation and other coated papers (Paper or pulp manufacturing excluded.)
25. Jobbing and machining
26. Leather footwear and leather products excluding tanning and hide processing.
27. Light engineering
28. Manufacture of formulated synthetic detergent products.
29. Manufacture of soaps involving process without generation of trade effluent (saponification of fats and fatty acids only).
30. Medical and surgical instruments
31. Mineralised water
32. Musical instruments manufacturing.
33. Oil ginning/expelling (no hydrogenation/refining)
34. Optical frames
35. Paint (by mixing process only)
36. Paper pins and U-clips.
37. Plastic & PVC processed goods.
38. Polythene, plastic and P.V.C. goods through injection / extrusion moulding.
39. Powerlooms./handlooms (without dyeing & bleaching).
40. Printing press
41. Radio assembling
42. Rice millers
43. Rope (cotton and plastic)
44. Rubber goods industry.
45. Scientific and mathematical instruments.

46. Shoelace manufacturing
47. Sports goods.
48. Steeping and processing of grains
49. Supari (Betelnut) and masala grinding.
50. Thermometer making
51. Toys
52. Wasting of used sand by hydraulic discharge
53. Water softening and demineralised plants.
54. Yarn and textile processing involving scouring, bleaching, dyeing, printing or any effluent/emission generating process.

IV NON-POLLUTING INDUSTRIAL ACTIVITIES [Exemption from Consent]

1. Tailoring / garment making,
2. Handloom weaving,
3. Furniture (wooden & steal),
4. Assembly of domestic electrical and electronic appliances / equipment,
5. Candles.
6. Carpentry (excluding saw mill),
7. Manufacture of steel trunks and suitcases.

Source: Pollution Control Board, Assam retrieved at
http://www.pcbassam.org/other_info4.htm