



No.B-29012/ESS(CPA)/2015-16/

March 07, 2016

To

The Chairman
All the State Pollution Control Boards / Pollution Control Committees
(List Attached)

SUB: MODIFIED DIRECTIONS UNDER SECTION 18(1)(b) OF THE WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974 and THE AIR (PREVENTION & CONTROL OF POLLUTION) ACT, 1981 REGARDING HARMONIZATION OF CLASSIFICATION OF INDUSTRIAL SECTORS UNDER RED / ORANGE / GREEN / WHITE CATEGORIES.

WHEREAS, under section 16 (2)(b) of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 16 (2)(c) of the Air (Prevention & Control of Pollution) Act, 1981, one of the functions of the Central Pollution Control Board (CPCB), constituted under the Water (Prevention and Control of Pollution) Act, 1974, is to coordinate activities of the State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs); and

WHEREAS, under section 16 (2)(c) of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 16 (2)(d) of the Air (Prevention & Control of Pollution) Act, 1981, one of the functions of the CPCB is to provide technical assistance and guidance to SPCBs and PCCs; and

WHEREAS, it was brought to the notice of CPCB, that different SPCBs /PCCs were following different criteria for classification of industrial sectors under Red/Orange/ Green category and that classification was being used by the SPCBs/PCCs for grant of consents to industries and for Inventorization / surveillance of industries.

WHEREAS, the issue regarding classification of industries was deliberated upon in the 56th Conference of Chairmen & Member Secretaries of CPCB & SPCBs/PCCs held on August 31, 2010 and a working group comprising of representatives from SPCBs & CPCB was constituted to prepare a consolidated list of industrial sectors falling under Red/Orange/Green category to bring uniformity in classification of industrial sectors across the country;

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032

'Parivesh Bhawan', East Arjun Nagar, Delhi - 110032

दूरभाष/Tel. : 43102030, फ़ैक्स/Fax : 22305793, 22307078, 22307079, 22301932, 22304948

ई-मेल/e-mail : cpcb@nic.in वेबसाइट/Website : www.cpcb.nic.in

Table G-5: Final List of White Category of Industries

Sl. No.	Orgnl Sl. No.	Industry Sector	W1	W2	W	A1	A2	A	H	W+A+H	Revised Category
1.	3	Assembly of air coolers /conditioners ,repairing and servicing	--	--	--	--	--	--	--	--	G-W
2.	4	Assembly of bicycles ,baby carriages and other small non motorizing vehicles	--	--	--	--	--	--	--	--	G-W
3.	7	Bailing (hydraulic press)of waste papers	--	--	--	--	--	--	--	--	G-W
4.	9	Bio fertilizer and bio-pesticides without using inorganic chemicals	--	--	--	--	--	--	--	--	G-W
5.	11	Biscuits trays etc from rolled PVC sheet (using automatic vacuum forming machines)	--	--	--	--	--	--	--	--	G-W
6.	12	Blending and packing of tea	--	--	--	--	--	--	--	--	G-W
7.	14	Block making of printing without foundry (excluding wooden block making)	--	--	--	--	--	--	--	--	G-W
8.	21	Chalk making from plaster of Paris (only casting without boilers etc. (sun drying / electrical oven)	--	--	--	--	--	--	--	--	G-W
9.	25	Compressed oxygen gas from crude liquid oxygen (without use of any solvents and by maintaining pressure & temperature only for separation of other gases)	--	--	--	--	--	--	--	--	G-W
10.	27	Cotton and woolen hosiers making (Dry process only without any dyeing / washing operation)	--	--	--	--	--	--	--	--	G-W
11.	31	Diesel pump repairing and servicing (complete mechanical dry process)	--	--	--	--	--	--	--	--	G-W
12.	33	Electric lamp (bulb) and CFL manufacturing by assembling only	--	--	--	--	--	--	--	--	G-W

13.	34	Electrical and electronic item assembling (completely dry process)	--	--	--	--	--	--	--	--	G-W
14.	23	Engineering and fabrication units (dry process without any heat treatment / metal surface finishing operations / painting)	--	--	--	--	--	--	--	--	O-W
15.	35	Flavoured betel nuts production/ grinding (completely dry mechanical operations)	--	--	--	--	--	--	--	--	G-W
16.	37	Fly ash bricks/ block manufacturing	--	--	--	--	--	--	--	--	G-W
17.	38	Fountain pen manufacturing by assembling only	--	--	--	--	--	--	--	--	G-W
18.	39	Glass ampules and vials making from glass tubes	--	--	--	--	--	--	--	--	G-W
19.	40	Glass putty and sealant (by mixing with machine only)	--	--	--	--	--	--	--	--	G-W
20.	43	Ground nut decorticating	--	--	--	--	--	--	--	--	G-W
21.	44	Handloom/ carpet weaving (without dying and bleaching operation)	--	--	--	--	--	--	--	--	G-W
22.	48	Leather cutting and stitching (more than 10 machine and using motor)	--	--	--	--	--	--	--	--	G-W
23.	51	Manufacturing of coir items from coconut husks	--	--	--	--	--	--	--	--	G-W
24.	52	Manufacturing of metal caps containers etc	--	--	--	--	--	--	--	--	G-W
25.	55	Manufacturing of shoe brush and wire brush	--	--	--	--	--	--	--	--	G-W
26.	57	Medical oxygen	--	--	--	--	--	--	--	--	G-W
27.	60	Organic and inorganic nutrients (by physical mixing)	--	--	--	--	--	--	--	--	G-W
28.	61	Organic manure (manual mixing)	--	--	--	--	--	--	--	--	G-W
29.	63	Packing of powdered milk	--	--	--	--	--	--	--	--	G-W
30.	64	Paper pins and u clips	--	--	--	--	--	--	--	--	G-W
31.	58	Repairing of electric motors and generators (dry mechanical process)	--	--	--	--	--	--	--	--	O-W
32.	74	Rope (plastic and cotton)	--	--	--	--	--	--	--	--	G-W

33.	76	Scientific and mathematical instrument manufacturing	--	--	--	--	--	--	--	--	G-W
34.	78	Solar module non conventional energy apparatus manufacturing unit	--	--	--	--	--	--	--	--	G-W
35.	79	Solar power generation through solar photovoltaic cell, wind power and mini hydel power (less than 25 MW)	--	--	--	--	--	--	--	--	G-W
36.	83	Surgical and medical products assembling only (not involving effluent / emission generating processes)	--	--	--	--	--	--	--	--	G-W

Note : Under the column Revised Category, the full forms of the abbreviations are as follows :

- a. R-R means original category was Red and revised category is also Red
- b. R-O means original category was Red and revised category is Orange
- c. O-O means original category was Orange and revised category is also Orange
- d. O-G means original category was Orange and revised category is Green
- e. O-W means original category was Orange and revised category is White
- f. G-O means original category was Green and revised category is Orange
- g. G-G means original category was Green and revised category is also Green
- h. G-W means original category was Green and revised category is White



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 Distillery including Fermentation industry.
	2 Sugar (excluding Khandsari)
	3 Fertilizer (Basic) (excluding formulation)
	4 Pulp and Paper (Paper manufacturing with or without pulping).
	5 Basic Drugs.
	6 Pharmaceuticals (excluding formulation).
	7 Dyes and Dye-intermediates.
	8 Pesticides (Technical) (excluding formulation).
	9 Oil refinery (Mineral oil or Petro refineries).
	10 Tanneries.
	11 Petrochemicals (Manufacture of and not merely use of as raw material)
	12 Cement
	13 Thermal Power Plants
	14 Iron and Steel (Involving processing from ore/scrap/Integrated steel plants.)
	15 Zinc smelter
	16 Copper smelter.
	17 Aluminium smelter
	18 Lead processing and battery reconditioning and manufacturing (including lead smelting).
B	Industries manufacturing following products or carrying out following activities: -
	1 Tyres and tubes (excluding Vulcanisation/Retreating/moulding).
	2 Synthetic rubber
	3 Glass and fiberglass production and processing.
	4 Industrial carbon including electrodes and graphite blocks, activated carbon, carbon black etc.
	5 Paints and varnishes (excluding blending/mixing)
	6 Pigments and intermediates.
	7 Synthetic resins.
	8 Petroleum products involving storage, transfer or processing.
	9 Lubricating oils, greases or petroleum-based products
	10 Synthetic fibers including rayon, tyre cord, polyester filament yarn.
	11 Surgical and medical products involving prophylactics and latex.
	12 Synthetic detergent and soap.
	13 Photographic films and chemicals.
	14 Chemical, petrochemical and electrochemical including manufacture of acids such as Sulphuric Acid, Nitric Acid, Phosphoric Acid etc.
	15 Industrial or inorganic gases.
	16 Chlorates, perchlorates and peroxides.
	17 Glue and gelatin
	18 Yarn and textile processing involving scouring, bleaching, dyeing, printing or any effluent/emission generating process.
	19 Vegetable oils including solvent extracted oils, hydrogenated oils.
	20 Industry or process involving metal treatment or processes such as pickling, surface coating, paint baking, paint stripping, heat treatment, phosphating or finishing etc
	21 Industry or process involving electroplating operations.
	22 Asbestos and asbestos-based industries.
	23 Slaughter houses and meat processing units.
	24 Fermentation industry including manufacture of yeast, beer etc.
	25 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
	26 Incineration plant
	27 Power generating plants (excluding D.G. Sets)
	28 Lime manufacturing
	29 Tobacco products including cigarettes and tobacco processing.
	30 Dry coal processing/Mineral processing industries like ore sintering, palletization etc.
	31 Phosphate rock processing plants
	32 Coke making, coal liquefaction, coaltar distillation or fuel gas making
	33 Phosphorous rock processing plants.
	34 Explosive including detonators, etc.
	35 Fire crackers.
	36 Processes involving chlorinated hydrocarbon.
	37 Chlorine, fluorine, bromine, iodine and their compounds.
	38 Hydrocyanic acid and its derivatives.
	39 Milk processing and dairy products (Integrated project)
	40 Industry or process involving foundry operations.
	41 Potable alcohol (IMFL) by blending or distillation of alcohol.

II) List of Industries under 'ORANGE' category

A	Industries identified by Ministry of Environment & Forest, Government of India under "Orange" Category.
1	Manufacture of mirror from sheet glass and photoframing
2	Cotton spinning and weaving
3	Automobile servicing and repairs stations.
4	Hotels and restaurants
5	Flour mills (excluding Domestic Aatta Chakki)
6	Malted food
7	Food including fruits and vegetable processing
8	Pulping and fermenting of coffee beans.
9	Instant tea/coffee, coffee processing.
10	Non-alcoholic beverages (soft drinks)
11	Fragrances and industrial perfumes
12	Food additives, nutrients and flavours.
13	Fish processing
14	Organic nutrients
15	Surgical and medical products not involving effluent/emission generating processes
16	Laboratory-wares
17	Wire drawing (cold process) and bailing straps.
18	Stone crushers
19	Laboratory chemicals involving distillation, purification process
20	Tyres and tubes vulcanisation, vulcanisation, retreading moulding.
21	Pesticides/Insecticides/Fungicides/Herbicides/Agrochemical formulation
22	NPK Fertilizers/Granulation
23	Pharmaceuticals formulations.
24	Khandsari sugar

III) List of Industries under 'GREEN' category

A	Industries in Small Scale, Cottage/Village category suggested under Annexure to Environment Department, Government of Maharashtra, G.R. No.ENV/1088/672/CR-185 Desk-1 dated 18.3 1992 for issuance simplified NOC/Consent from Maharashtra Pollution Control Board.
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.
1	Wasting of used sand by hydraulic discharge
2	Aatta-chakkies
3	Rice mullors
4	Steeping and processing of grains
5	Mineralised water
6	Dal mills
7	Bakery products, biscuits, confectionery
8	Groundnut decorticating (dry)
9	Supari (Betelnut) and masala grinding
10	Chilling plants and cold storages
11	Ice cream or Ice-making
12	Tailoring and garment making
13	Cotton and woolen hosiery
14	Apparel making
15	Handloom weaving
16	Shoelace manufacturing
17	Gold and silver thread zari work
18	Gold and silver smithy
19	Leather footwear and leather products excluding tanning and hide processing
20	Musical instruments manufacturing
21	Sports goods.
22	Bamboo and cane products (only dry operations)
23	Cardboard or corrugated box and paper products (Paper or pulp manufacturing excluded.)
24	Insulation and other coated papers (Paper or pulp manufacturing excluded.)
25	Scientific and mathematical instruments.
26	Furniture (wooden and steel)
27	Assembly of domestic electrical appliances
28	Radio assembling

29	Fountain pens.
30	Polythene, plastic and P.V.C. goods through extrusion/moulding.
31	Rope (cotton and plastic)
32	Carpet weaving
33	Assembly of air coolers, conditioners.
34	Assembly of bicycles, baby carriages and other small non-motorised vehicles.
35	Electronics equipment (Assembly)
36	Toys
37	Water softening and demineralised plants
38	Paint (by mixing process only)
39	Candles
40	Carpentry (excluding saw mill)
41	Oil ginning/expelling (no hydrogenation/refining)
42	Jobbing and machining
43	Manufacture of steel trunks and suitcases
44	Paper pins and U-clips
45	Block making for printing.
46	Optical frames
47	Powerlooms/handlooms (without dyeing & bleaching)
48	Printing press
49	Garments stitching, tailoring
50	Thermometer making
51	Footwear (rubber)
52	Plastic processed goods.
53	Medical and surgical instruments
54	Electronic and electrical goods.
55	Rubber goods industry.

Note

1. The industries which do not fall in any of the above mentioned 3 categories, decision with regard to their classification will be taken by a committee at Head Office level comprising of APAE/WPAE/PSO.
2. In respect of the industries falling under A & B under 'GREEN' category, in the event of any duplication/repeatation, the industry shall be treated to be falling under category 'A' which is entitled for the benefit of simplified perpetual consent without charging of any consent fee.

<http://mpcb.gov.in/consentmgt/RevisedIndustryCategorization.php>

Modified directions under section 18(1)(b) of the water (P&PC) act, 1974 and the air, (p&pc) act, 1981 regarding harmful classification of industrial sectors under red/ orange/ green/ white categories.

Categorization of Industrial Sectors under Red, Orange, Green and White Category

The Ministry of Environment, Forest and Climate Change (MoEFCC) had brought out notifications in 1989, with the purpose of prohibition/ restriction of operations of certain industries to protect ecologically sensitive Doon Valley. The notification introduced the concept of categorization of industries as "Red", "Orange" and "Green" with the purpose of facilitating decisions related to location of these industries. Subsequently, the application of this concept was extended in other parts of the country not only for the purpose of location of industries, but also for the purpose of Consent management and formulation of norms related to surveillance / inspection of industries.

The concept of categorization of industries continued to evolve and as different State Pollution Control Boards interpreted it differently, a need arose to bring about necessary uniformity in its application across the country. In order to harmonize the "Criteria of categorization", Directions were issued by CPCB under Section 18(1)(b) of the Water (Prevention & Control of Pollution) Act, 1974 to all SPCBs/PCCs to maintain uniformity in categorization of industries as red, green and orange as per list finalized by CPCB, which identified 85 types of industrial sectors as "Red", 73 industrial sectors as "Orange" and 86 sectors as "Green".

The process of categorization thus far was primarily based on the size of the industries and consumption of resources. The pollution due to discharge of emissions & effluents and its likely impact on health was not considered as primary criteria. There was demand from the SPCBs / PCCs and industrial associations for categorization of the industrial sectors in a more transparent manner. Accordingly, the issue was discussed thoroughly during the national level conference of the Environment Ministers of the States, held in New Delhi during April 06-07, 2015 and a "Working Group" comprising of the members from CPCB, APPCB, TNPCB, WBPCB, PPCB, MPPCB and Maharashtra PCB is constituted to revisit the criteria of categorization of industries and recommend measures for making the system transparent and rational.

The Working Group has developed the criteria of categorization of industrial sectors based on the Pollution Index which is a function of the emissions (air pollutants), effluents (water pollutants), hazardous wastes generated and consumption of resources. For this purpose the references are taken from the the Water (Prevention and Control of Pollution) Cess (Amendment) Act, 2003, Standards so far prescribed for various pollutants under Environment (Protection) Act, 1986 and Doon Valley Notification, 1989 issued by MoEFCC. The Pollution Index PI of any industrial sector is a number from 0 to 100 and the increasing value of PI denotes the increasing degree of pollution load from the industrial sector. Based on the series of brainstorming sessions among CPCB, SPCBs and MoEFCC, the following criteria on "Range of Pollution Index" for the purpose of categorization of industrial sectors is finalized.

- Industrial Sectors having Pollution Index score of 60 and above - Red category
- Industrial Sectors having Pollution Index score of 41 to 59 - Orange category
- Industrial Sectors having Pollution Index score of 21 to 40 - Green category
- Industrial Sectors having Pollution Index score incl.&upto 20 - White category

The newly introduced White category of industries pertains to those industrial sectors which are practically non-polluting such as Biscuit trays etc. from rolled PVC sheet (using automatic vacuum forming machines), Cotton and woolen hosiery making (Dry process only without any dyeing/washing operation), Electric lamp (bulb) and CFL manufacturing by assembling only, Scientific and mathematical instrument manufacturing, Solar power generation through photovoltaic cell, wind power and mini hydel power (less than 25 MW).

The salient features of the "Re-categorization" Exercise are as follows :

- Due importance has been given to relative pollution potential of the industrial sectors based on scientific criteria. Further, wherever possible, splitting of the industrial sectors is also considered based on the use of raw materials, manufacturing process adopted and return pollutants expected to be generated.
- The Red category of industrial sectors would be 60.
- The Orange category of industrial sectors would be 83.
- The Green category of industrial sectors would be 63.
- Newly introduced White category contains 36 industrial sectors which are practically nonpolluting.
- There shall be no necessity of obtaining the Consent to Operate for White category of industries. An intimation to concerned SPCB / PCC shall suffice.
- No Red category of industries shall normally be permitted in the ecologically fragile area / protected area.

The purpose of categorization is to ensure that the industry is established in a manner which is consistent with the environmental objectives. The new criteria will prompt industrial sectors willing to adopt cleaner technologies, ultimately resulting in generation of fewer pollutants. Another feature of the new categorization system lies in facilitating self-assessment by industries as the subjectivity of earlier assessment has been eliminated. This "Re-categorization" is a part of the efforts, policies and objective of present government to create a clean & transparent working environment in the country and promote the Ease of Doing Business.

Other similar efforts include installation of Continuous Online Emissions/ Effluent Monitoring Systems in the polluting industries, Revisiting of the CEPI (Comprehensive Environment Pollution Index) concept for

assessment of polluted industrial clusters, Revision of existing industrial Emission/Effluent discharge standards, initiation of special drive on pollution control activities in Ganga River basin and many more in coming future.

[CPCB Circular Dt. 07/03/2016 - Modified directions under section 18\(1\)\(b\) of the water \(p&pc\) act, 1974 and the air, \(p&pc\) act, 1981 regarding harmonization of classification of industrial sectors under red/ orange/ green/ white categories.](#)

[MPCB Circular Dt. 03/06/2016 - Modified Directions u/s 18\(1\)\(b\) of the Water \(p&cp\) Act, 1984 and the Air \(p&cp\) Act, 1981 regarding harmonization of Classification of industrial sectors under Red/ Orange/ Green/ White Categories.](#)

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