



ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board

“ಪರಿಸರ ಭವನ”, 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ
“Parisara Bhavana”, 1st to 5th Floor, # 49, Church Street, Bengaluru - 560 001, Karnataka, INDIA

No. PCB/717/COC/2017-18/ 3322

Date: 14 SEP 2017

ADDENDUM

Sub: Amendment to the Notification issued by the Board on Re-categorization of Industry/organization/activity as per the direction of CPCB - reg.

- Ref: 1. CPCB Direction No. B-29012/ESS (CPA)/2015-16 dated: 07.03.2016
2. Proceedings of the 203rd Board Meeting held on 04.04.2016
3. B.O Notification: KSPCB/717/COC/2016-17/1473 dated: 17.06.2016.
4. Proceedings of the 205th Board Meeting held on 25.6.2016
5. B.O Notification: KSPCB/717/COC/2016-17/1232 dated: 14.07.2016.
6. Proceedings of the Technical Committee meeting held on 25.01.2017

The Central Pollution Control Board had issued a direction under Section 18(1)(b) of the Water (Prevention & Control of Pollution) Act, 1974 on 07.03.2016 vide ref(1) for re-categorization of Red, Orange, Green and White category of industrial sectors. In this regard, the subject was discussed in the 203rd Board meeting held on 04.04.2016 vide ref (2) and 205th Board meeting held on 25.06.2016 vide ref (4) the Board approved to implement the directions.

Accordingly, Board has constituted a technical committee vide ref (5). The Committee has reviewed both the CPCB list as well as the existing KSPCB list and prepared a revised final list and issued Notification vide ref (3). Later on, the Notification was updated vide ref (5).

The Regional Officers namely RSEO-Bengaluru City North, RO-Mysore-2, RO-Dharwad, RO- Mangalore, RO Udupi, RO – Belagavi-, RO-Karwar, RO-Haveri, RO-Doddaballapura, RO-Chikaballapura and RO-Bagalkot have sent proposals for clarification on certain category of industries/activities and also sought clarity on certain specific activities.

Technical committee has discussed the issues in the meeting held on 25.01.2017 and recommended to include certain activities to the list vide ref (6). As the Board has authorized the Chairman, vide ref (1) to re-categorize the activities and accordingly, the following categories to be included to the notified list cited under ref (5):

//Note approved by Chairman//


MEMBER SECRETARY

To:

1. Chief Environmental Officer-1,2,3
2. SEO (Enforcement & Complaint Cell), SEO (Waste Management Cell), SEO(17 Category Cell), SEO(Mines, Steel & Stone Crusher Cell), SEO(Infrastructure Cell), SEO(Technical Officer to Chairman) and SEO(Inspection & Monitoring Cell).
3. SEO(Bangalore City), SEO(Bangalore East), SEO(Bangalore South), SEO(Bangalore North), SEO(Mysore), SEO(Mangalore), SEO(Dharwad), SEO(Bellary) SEO(Chitradurga) and SEO(Kallburgi)
4. All Regional Officers, Regional Office: (1) Bangalore City-East, (2) Bangalore City-Peenya, (3) Bangalore City-South, (4) Bangalore City-West, (5) Dasarahalli, (6) Doddaballapura, (7) Nelamangala, (8) Yelahanka, (9) Anekal, (10) Bommanahalli, (11) Rajarajeshwarinagara, (12) Ramnagar, (13) Sarjapura, (14) Chikkaballapur, (15) Hosakote, (16) Mahadevpura, (17) Mysore-1, (18) Mysore-2, (19) Mandya, (20) Chamarajnagar, (21) Tumkur, (22) Chitradurga, (23) Davangere, (24) Kolar, (25) Shimoga, (26) Dharwad, (27) Gadag (28) Belgaum-1, (29) Belgaum-2 (Chikkodi Centre), (30) Bagalkot, (31) Bijapur, (32) Bellary, (33) Raichur, (34) Koppal, (35) Bidar, (36) Gulbarga, (37) Udupi, (38) Mangalore, (39) Hassan, (40) Chikmagalur, (41) Karwar, (42) Kodagu (43) Haveri, (44) Yadgiri.
5. EO(Corporate cell), EO(e-Governance Cell), EO(17 Category & Fly ash Cell), EO(17 Category- Sugar & Distillery Cell), EO(Non-EIA Bangalore based), EO(Non-EIA other than Bangalore), EO(Waste Management Cell), EO(Awareness, Training, Workshop), EO(Infrastructure Cell), EO(Mines, Steel & Stone Crusher Cell), EO(Udyog Mitra, Complaint & Enforcement Cell), AEO(Help Desk), EO (Noise – Enforcement Cell).
6. Senior Scientific Officer, Board Office

ADDENDUM as on 25.01.2017 (1st amendment)
RE-CATEGORIZATION OF INDUSTRIES INTO RED, ORANGE, GREEN & WHITE

List of RED Category Industries

PART-A

Sl.No (As per the list notified by the Board on 14.07.16)	Sl.No (As per the list notified by the CPCB on 07.03.2016)	Industry Sector	Amendment to Industry Sector	W1	W2	W	A1	A2	A	H	W+A+H	Revised Category	REMARKS
1.	38	Isolated storage of hazardous chemicals (as per schedule of manufacturing, storage of hazardous chemicals rules, 1989 as amended)	With existing activity could be broadened by adding "Crude oil Storage capacity of 2.5Million Metric ton and above"									R-R	As per provisions of Rules, to be kept under Red category especially for safety purposes.
3.	34	Industries engaged in recycling/recovery/reuse of Hazardous Waste under schedule iv of HW(M, H& TBM) Rules, 2008 - Items namely -Spent cleared metal catalyst containing copper, Spent cleared metal catalyst containing zinc and reprocessing/reconditioning of used oil & waste oil	With existing activity could be broadened by adding "Reconditioning"	30		30	20		20	10	60	R-R	All the three types of pollutants are expected.

42.	70	Ship Breaking Industries	With existing activity could be broadened by adding "Ship Building & Repairs"	30		30	30		30	20	80	R-R	<p>i. The ship-breaking industry creates numerous hazards for the coastal and marine environment.</p> <p>ii. Ship-breaking releases a large number of dangerous pollutants, including toxic waste, oil, poly-chlorinated biphenyls, and heavy metals, into the waters and sea bed.</p> <p>iii. While most of the oil is removed before a ship is scrapped, sand used to mop up the remaining oil is thrown into the sea. High concentrations of oil and grease are then found in the coastal waters, choking marine life.</p> <p>iv. Solid waste strewn on the shore. 45 tonnes on any given day according to a study by the Central Pollution Control Board, also finds its way into the sea.</p> <p>v. Adding to the stress on coastal waters, the organic load from the thousands of workers living in cramped conditions with little or no sanitary facilities results in unacceptably high levels of BOD.</p>
70	83	Vegetable oil manufacturing including solvent extraction and refinery /hydrogenated oils with effluent quantity is more than 100KLD.	With existing activity could be broadened by adding "Manufacture of Alfa Cellulose, Xylitol, Sodium Lignosulfonate"	15	10	25	15	10	25	--	62.5	Orange in New CPCB List At SI.No-71	This category is appearing in CPCB main list under Orange category at SI.NO-71. In the remarks mentioned that, if the waste-water generation is more than 100 KLD, the unit shall be classified as Red. Hence this activity with more than 100 KLD is included in the Red category.

List of ORANGE Category Industries

PART-A

Sl.No (As per the list notified by the Board on 14.07.16)	Sl.No (As per the list notified by the CPCB on 07.03.2016)	Industry Sector	Amendment to Industry Sector	W1	W2	W	A1	A2	A	H	W+A+H	Revised category	Remarks
49.	46	Manufacturing of Starch/Sago	The activity is broadened by adding: <ul style="list-style-type: none"> ➤ For the units having wastewater generation <100KLD categorized as Orange category. ➤ For the units having wastewater generation >100KLD categorized as Red category. 	25		25	15		15		50	R-O	i. Water and air pollution industry. Boiler is used for steam generation. ii. Water & air pollution scores are normalized to 100. iii. For the units having wastewater generation less than 100KLD categorize as Orange category. iv. For the units having wastewater generation more than 100KLD categorize as Red category.
50.	46	Mechanized laundry using oil fired boiler	With existing activity could be broadened by adding "Garment washing & thermic fluid heater"	20	--	20	20	--	20	--	50	O-O	Both air and water pollution is generated.

55.	62	Paints and varnishes (mixing and blending)	With existing activity could be broadened by adding "Deodorant sprays"	20	0	0	20	0	20	0	50	G-O	Waste-waters as well as fumes of VOCs due to solvents, pigments, varnishes.
60.	59	Reprocessing of waste plastic including PVC	In remarks column could be broadened by adding: Irrespective of quantity of generation of trade effluent	20	--	20	20	--	20	--	50	O-O	Large quantities of wash-water and fugitive emissions are generated.
63.	72	1. Steel and steel products using various furnaces like blast furnace /open hearth furnace/induction furnace/arc furnace/submerged arc furnace/basic oxygen furnace /hot rolling reheated furnace 2. Engineering Industries with Heat Treatment, Annealing, Quenching, Blackening, Spray Painting etc (Leaf Springs)	In remarks column could be broadened by adding: ➤ Products made from iron also in addition to steel using various furnaces. ➤ Foundries based on induction furnace.	10	--	10	20	--	20	10	50	R-O	i. Mainly air pollution. In the emissions, oxides of manganese, nickel etc. are also present. ii. Air pollution score is normalized to 100. Amendment to industry sector is made as per CPCB Letter Dated:21.11.2016.
PART-B													
101		1.Repairing, cleaning, degreasing, painting and leak proof testing of L.P.G. cylinders and manufacture of cylinders caps for L.P.G. cylinders 2.LPG Bottling (With and/or without Painting)	The existing activity to be read as follows: 1.Repairing, cleaning, degreasing, painting and leak proof testing of L.P.G. cylinders and manufacture of cylinders caps for L.P.G. cylinders 2.LPG Bottling (With Painting)	10	--	10	--	5	5	15	30	O-O	Normal water & Air pollution
102		Storage Terminals- Storage and handling of materials which are not included in the	"Storage of materials" activity could be enlisted under Orange as new categorization	20	10	30	10	0	10	10	50	NEW	i. Normal water & Air pollution

		Manufacture, Storage & Import of Hazardous Chemicals Rules 1989, and its Amendments.											
103		Manufacturing of optical lenses (using electrical furnace)	Manufacturing of optical lenses (using electrical furnace) categorized under Orange category enlisted remarks column by adding large quantities of wastewater generated.	20	10	30	10	0	10	10	50	O-O	ii.Large quantities of wastewater generated. iii.Manufacture of Optical lenses using electrical furnace with less quantity of waste water generation is already listed in SI.No. 53 under Green category.
104		Fragrance, flavours essence etc. for food additives	In remarks column could be broadened by adding: The units having boilers & more wastewater generation shall categorize as Orange category.	20	0	20	20	0	20	0	20	NEW	i.Normal water & air pollution ii.The units having boilers & wastewater generation categorize as Orange category.

**List of GREEN Category Industries
PART-A**

Sl.No (As per the list notified by the Board on 14.07.16)	Sl.No (As per the list notified by the CPCB on 07.03.2016)	Industry Sector	Amendment to Industry Sector	W1	W2	W	A1	A2	A	H	W+A+H	Revised category	Remarks
11.	19	Cement products (with/without using asbestos / boiler / steam curing) like pipe, pillar, jafri, well ring, block/tiles etc.(should be done in closed covered shed to control fugitive emissions)	The existing activity is broadened by including with or without boilers.	--	--	--	10	--	10	--	25	G-G	Minor air pollution due to some fugitive PM emissions from mixing operations.

33.	68	Poultry, Hatchery and Piggery	The existing activity to be read as follows: Poultry, Hatchery and Piggery more than 1 lakh Birds	--	--	--	10	--	10	--	25	G-G	<ul style="list-style-type: none"> • Obnoxious odour containing H₂S, CH₄ etc. and fugitive PM emissions • Less than One lakh Birds covered under White category
46.	81	Steel furniture without spray painting	The existing activity to be read as follows: Steel furniture without spray painting &/or Body building & repair of steel Boats and Trawlers without spray painting	--	--	--	10	--	10	--	25	G-G	Obnoxious gases from welding as well as noise pollution.
47.	82	Steeping and processing of grains	The existing activity to be read as follows: i. Steeping and processing of grains &/or by sieving/ by using chemicals.	10	--	10	--	--	--	--	25	G-G	Washing waters are generated.
			ii. Betal nut production(Wet Process)										Flavoured betal nuts production/ grinding (Completely dry mechanical operations is already listed in SI.No. 15 of White Category.
49.	22	Chilling plant and ice making without using ammonia	The existing activity to be read as follows: “Chilling plant and ice making with or without using ammonia”	12	--	12	--	--	--	--	30	G-G	Cooling water and brine water circuits. Spillages / blow down may take place.

50.	26	CO ₂ recovery	The existing activity to be read as follows: “CO₂ recovery &/or Dry ice using CO₂ from distillery unit”	12	--	12	--	--	--	--	30	G-G	Normal water pollution from scrubbing action
53.	53	Manufacturing of optical lenses (using electrical furnace)	In remarks column could be broadened by adding: “If the units generate large quantity of effluent consider under Orange category”	12	--	12	--	--	--	--	30	G-G	i.Small quantities of waste-waters containing TDS, SS are generated.
60.	54	1.Oil and gas transportation pipeline. 1. Repairing, cleaning, degreasing, painting and leak proof testing of L.P.G. cylinders and manufacture of cylinders caps for L.P.G. cylinders 2. LPG Bottling (With and/or Without Painting)	The existing activity to be read as follows: 1. Oil and gas transportation pipeline. 2.Repairing, cleaning, degreasing, painting and leak proof testing of L.P.G. cylinders and manufacture of cylinders caps for L.P.G. cylinders 3.LPG Bottling (Without Painting.	--	--	--	10	5	15	--	37.5	R-G	i.Contains small gas based power plants up-to 5MWs. ii.Air pollution score is normalized to 100. iii.In case , if these power plants are bigger / liquid fuel / oil based, scores will be calculated accordingly.
<u>PART-B</u>													
93	164	Manufacturing of nuts and bolts with cold forging	The existing activity to be read as follows: “Manufacturing of nuts and bolts with cold forging &/or Manufacture of watch screws & turned parts.”	-	10	10	15	--	15	10	35	G-G	Normal water and Air pollution
112	66	Fragrance, flavours essence etc. for food additives	In remarks column could be broadened by adding: The units having boilers & wastewater generation shall be categorized under Orange	10	-	10	15	-	15	-	25	O-G	i.Normal water & air pollution ii.The units having boilers& wastewater

																			generation shall be categorized as Orange.
114.	79	Solar power generation through solar photovoltaic cell, wind power and mini hydel power (more than 25 MW)	The existing activity to be read as follows : Only "Mini Hydel Power Plants (more than 25 MW)"																G-G Normal water pollution and hazardous waste pollution.
115	123	Re-packing of finished	"Re-packing of finished products(wet Process) with boiler & generation of trade effluent"	-	10	10	15	--	15	10	35								NEW i. Normal water pollution and hazardous waste pollution. ii.Re packing of finished products (Dry Process) listed under Sl.No. 47. of White Category of Board Notified list remains unchanged.

List of WHITE Category Industries

PART-A

Sl.No (As per the list notified by the Board on 14.07.16)	Sl.No (As per the list notified by the CPCB on 07.03.2016)	Industry Sector	Amendment to Industry Sector	W1	W2	W	A1	A2	A	H	W+A+H	Revised category
9.	25	Compressed oxygen gas from crude liquid oxygen (without use of any solvents and by maintaining pressure & temperature only for	The existing activity to be read as follows: Compressed oxygen gas from crude liquid oxygen (without use of any solvents and by maintaining pressure & temperature only for	--	--	--	--	--	--	--	--	G-W

		separation of other gases)	separation of other gases) &/or liquid nitrogen and other gases										
35	79	Solar power generation through solar photovoltaic cell, wind power and mini hydel power (less than 25 MW)	The existing activity to be read as follows: "Solar Power generation through solar photovoltaic cell plants of all capacities, Wind Power Plants of all capacities and Mini Hydel Power Plants (less than 25 MW)"	--	--	--	--	--	--	--	G-W	Amendment is made as per the CPCB Letter No. B-29012/ESS/ CPA/ 2016-17/22081, dated 18-1-2017 on Clarification in the matter of Revised Categorization of the industrial sector.	



CHIEF ENVIRONMENTAL OFFICER