

Final Document
on
Revised Classification
of
Industrial Sectors

Under
**Red, Orange, Green & White categories
(2016)**



**Karnataka State Pollution Control Board
Bengaluru**

RE-CATEGORIZATION OF INDUSTRIES INTO RED, ORANGE, GREEN & WHITE

List of RED Category Industries

PART-A

Final Sl.No	Orgnl Sl.No	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)									R-R	As per provisions of Rules, to be kept under Red category especially for safety purposes.
2.	4	Automobile Manufacturing (integrated facilities)	30		30	20		20	10	60	R-R	i. Such types of plants are having either one or combinations of pollution activities viz. washing, metal surface finishing operations, pickling, plating, electro-plating, phosphating, painting , heat treatment etc. ii. Some of such plants may outsource some/all of the pollution activities. In such cases, after thorough inspection of such units by concerned SPCB, re-categorization of the industry shall be made accordingly.
3.	34	Industries engaged in recycling/reprocessing/ 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,	30		30	20		20	10	60	R-R	All the three types of pollutants are expected.

4.	44	Manufacturing of lubricating oils ,grease and petroleum based products	20		20	20		20	20	60	R-R	Generates all sorts of pollution.
5.	66 E	DG Set of capacity > 5 MVA	--	--	--	20	5	25		62.5	R-R	<p>i. Mainly air pollution.</p> <p>ii. DG sets consume the diesel @ 0.21litres/hr/KVA at full load.</p> <p>iii.Average running is taken @ 12 hrs / day although many of the DG sets run for more than this period.</p>
6.	31	Industrial carbon including electrodes and graphite blocks, activated carbon, carbon black	10	--	--	20	5	25	10	62.5	R-R	Mainly air pollution. Air pollution score is normalized to 100.
7.	39	Lead acid battery manufacturing(excluding assembling and charging of lead-acid battery in micro scale)	10	--	10	25	--	25	10	62.5	R-R	<p>i.Mainly air pollution. Air pollution scores are normalized to 100.</p> <p>ii.Lead Acid Battery manufacturing consists of various stages which broadly involve (after producing or receiving lead oxide): Paste Mixing , Grid Casting , Grid Pasting & Curing , Hydro-setting, parting & enveloping , Stacking, grouping & inter-cell welding , Formation.</p> <p>iii. Exposure of workmen to lead during all or any of the processes outlined above exceeds the prescribed standards if appropriate equipment in this respect is not installed at any Battery Manufacturing Unit.</p> <p>iv.All of the above processes, some more than others, involve release of lead particles or fumes into the environment. Pollution from the above processes can be grouped into two possible types, viz: (a) Lead Oxide becomes airborne and there is Particulate Pollution (b)</p>

												Fumes are generated and there is Gaseous Pollution
8.	62	Phosphate rock processing plant	30		30	20		20		62.5	R-R	<p>i.The separation of phosphate rock from impurities and non-phosphate materials for use in fertilizer manufacture consists of beneficiation, drying or calcining at some operations, and grinding. Phosphate rock from the mines is first sent to beneficiation units to separate sand and clay and to remove impurities. Steps used in beneficiation depend on the type of rock.</p> <p>ii.The water & air pollution scores are normalized to 100.</p>
9.	66	Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydel power plant of capacity <25MW]	10		10	15	10	25		62.5	R-R	<p>1.Mainly air pollution. It uses a mixture of biomass (agro based) and coal (< 10 %) as a fuel. Almost, round the year operation.</p> <p>2 .In case of DG sets of 5 MVA & more and emissions of SO2 will take place due to use of liquid fuel. Air pollution score will be =20 + 10 = 30, Normalized score will be 75. 3. In case of 'Waste to Energy Plants' , water will be used for cooling and air score will be - 30+10 = 40.</p>
10.	34	Industries engaged in recycling / reprocessing/ recovery/reuse of Hazardous Waste under schedule iv of HW(M, H& TBM) rules, 2008 - Items namely -Spent catalyst containing nickel, cadmium, Zinc, copper, arsenic, vanadium and cobalt,	30		30	25		25	10	65	R-R	All the three types of pollutants are expected.

11.	67	Processes involving chlorinated hydrocarbons	30		30	20		20	15	65	R-R	Chlorinated hydrocarbons are used in the manufacture of insecticides, pesticides and organo chloro pesticides. Effluents & emissions are toxic in nature.
12.	74	Sugar (excluding Khandsari)	20	10	30	15	10	25	10	65	R-R	i.This industrial sector is the one among the '17 categories of Highly Pollution Industries'. ii.Sugar mills generate all sorts of pollution problems.
13.	22	Fibre glass production and processing (excluding moulding)				20		20	20	67	R-R	i. The use of styrene in most methods of fiberglass production causes hazardous air pollution that is harmful to breathe at excessive levels. ii. It is mainly air pollution & HW generating industry. The air pollution & HW scores are normalized to 100. iii. In case of lead containing glass, the score of A1 will be 25 and final normalized score will be 75 and shall be categorized as Red.
14.	23	Fire crackers manufacturing and bulk storage facilities				20		20	20	67	R-R	i.This is the normalized score based on air pollution & HW generation. ii.Various hazardous chemicals are used in the manufacturing process. iii.These chemicals are namely Potassium Nitrate , Potassium per-chlorate, Barium Nitrate, Aluminum compounds, Copper Chloride etc. iv.These chemicals are highly hazardous and cause serious diseases among the workers. especially ability of blood to carry oxygen leading to headaches,

												methemoglobinemia and kidney problems, skin problems, thyroid metal fume etc.
15.	34	Industries engaged in recycling / reprocessing/ recovery/reuse of Hazardous Waste under schedule iv of HW(M, H& TBM) rules, 2008 - Items namely -Dismantlers Recycling Plants Components of waste electrical and electronic assembles comprising accumulators and other batteries included on list A, mercury-switches, activated glass cullets from cathode-ray tubes and other activated glass and PCB-capacitors, or any other component contaminated with Schedule 2 constituents (e.g. cadmium, mercury, lead, polychlorinated biphenyl) to an extent that they exhibit hazard characteristics indicated in part C of this Schedule.				30	0	30	10	67	R-R	Mainly air pollution and hazardous waste generating. Air & HW pollution scores are jointly normalized to 100.
16.	47	Milk processes and dairy products(integrated project)	20	10	30	20	5	25		68.75	R-R	i. Water as well as air pollution due to use of boilers. ii. Water & air pollution scores are normalized to 100.
17.	63	Phosphorous and its compounds	30		30	25		25		68.75	R-R	Water pollution & air pollution containing compounds of phosphorous are expected
18.	61	Pulp & Paper (waste paper based without bleaching process to manufacture Kraft paper)	20	10	30	15	10	25	0	68.75	R-R	Mainly water & air pollution . Water & air pollution scores are normalized to 100.

19.	13	Coke making , liquefaction, coal tar distillation or fuel gas making	30	-	30	20	-	20	20	70	R-R	It is a kind of petrochemical industry.
20.	41	Manufacturing of explosives, detonators, fuses including management and handling activities	30		30	20		20	20	70	R-R	<p>i.Explosives manufacture and use contribute some measure of hazardous waste to the environment.</p> <p>ii.Nitroglycerin produces several toxic byproducts such as acids, caustics, and oil contaminated with heavy metals. These must be disposed of properly by neutralization or stabilization and transported to a hazardous waste landfill.</p> <p>iii.The use of explosives creates large amounts of dust and particulate from the explosion, and, in some cases, releases asbestos, lead, and other hazardous materials into the atmosphere.</p>
21.	45	Manufacturing of paints varnishes, pigments and intermediate (excluding blending/mixing)	30		30	25		25	15	70	R-R	<p>i.The process may cause considerable emission of volatile organic compounds (VOC). VOC contribute to the creation of ozone in the lower layers of the atmosphere (photochemical air pollution) and can present danger to health.</p> <p>ii.Dust and odour may also be a problem.</p> <p>iii.Washing of vessels will contribute waste-waters.</p> <p>iv.Large quantity of HWs are also produced.</p>
22.	56	Organic Chemicals manufacturing	30	-	30	20	-	50	20	70	R-R	Such types of industrial sectors generate all sorts of pollution. Inorganic Chemical manufacturing industries like Potassium Permanganate, Hydrocyanic Acid etc may also be considered under this category.

23.	1	Airports and Commercial Air Strips	20	10	30				10	75	R-R	<p>i. The Airports are generating mainly the waste-waters.</p> <p>ii. This is the water pollution normalized score for airports having discharge more than 100 KLD.</p> <p>iii. The airports / strips having discharge less than 100 KLD will have score of 50 and hence orange category.</p> <p>iv. If the score is normalized wrt water + HW both, then all the airports will come under Orange category (score - 58.33).</p>
24.	3	Asbestos and asbestos based industries				30		30	10	75	R-R	<p>i. This is mainly air pollution industry.</p> <p>ii. Final score is based on air pollution score only.</p> <p>iii. Asbestos is carcinogenic and banned in many countries.</p>
25.	5	Basic chemicals and electro chemicals and its derivatives including manufacturing of acid	30		30				10	75	R-R	<p>i. Standards prescribed for Inorganic Chemicals are adopted.</p> <p>ii. It is mainly water pollution industry having effluents which are toxic and not easily biodegradable.</p> <p>iii. Water pollution score normalized to 100 is undertaken.</p> <p>iv. The earlier Red category industrial sector namely "Hydrocyanic acid and its derivatives" is also merged under this industrial sector.</p>
26.	7	Cement(including cement clinker grinding/Slag cement)	-	-	-	20	10	30	-	75	R-R	<p>This is mainly air pollution industry & hence normalized air pollution score.</p>
27.	9	Chlorates, per-chlorates & peroxides	30		30					75	R-R	<p>i. It is mainly water pollution industry having effluents which are toxic and not easily biodegradable.</p> <p>ii. Water pollution score normalized to 100 is undertaken.</p>

28.	10	Chlorine, fluorine, bromine, iodine and their compounds	30		30					75	R-R	<ul style="list-style-type: none"> i. It is mainly water pollution industry having effluents which are toxic and not easily biodegradable. ii. Water pollution score normalized to 100 is undertaken.
29.	16	Dyes and Dye- Intermediates	30		30	20	5	25	20	75	R-R	<ul style="list-style-type: none"> i. This industrial sector is the one among the '17 categories of Highly Pollution Industries'. ii. Such types of industrial sectors generate all sorts of pollution.
30.	26	Health-care Establishment (as defined in BMW Rules)	20	10	30					75	R-R	<ul style="list-style-type: none"> i. Mainly water pollution. ii. The water pollution score is normalized to 100 & valid for Hospitals having total waste-water generation > 100 KLD. iii. The hospitals with incinerator will be categorized as Red irrespective of the quantity of the waste-water generation. iv. The hospitals having total waste-water generation less than 100 KLD and without incinerator, the normalized water pollution score will be 50 and will be categorized as Orange category.

31.	29	Hotels/Resorts having overall waste-water generation @ 100 KLD and more.	20	10	30	15		15	75	R-R	<ul style="list-style-type: none"> i. Mainly water pollution. Small boiler may be installed. ii. The water pollution score is normalized to 100 & valid for Hotels having waste-water generation >100 KLD. iii. The hotels having more than 20 rooms and waste-water generation less than 100 KLD and having a coal / oil fired boiler , the pollution score will be 35/40 & are categorized as Orange. iv. The hotels having more than 20 rooms and waste-water generation less than 10 KLD and having no-boiler & no hazardous waste generation, the pollution score will be 20 & are categorized as Green. 	
32.	34	Industries engaged in recycling / reprocessing/ recovery/reuse of Hazardous Waste under schedule iv of HW(M, H& TBM) rules, 2008 -Items namely -Lead acid battery plates and other lead scrap/ashes/residues not covered under Batteries (Management and Handling) Rules, 2001. [* Battery scrap, namely: Lead battery plates covered by ISRI, Code word "Rails" Battery lugs covered by ISRI, Code word "Rakes". Scrap drained/dry while intact, lead batteries covered by ISRI, Code word "rains".	30		30	25		25	20	75	R-R	All the three types of pollutants are generated.
33.	34	Industries engaged in recycling / reprocessing/ recovery/reuse of Hazardous Waste under	30		30	25		25	20	75	R-R	All the three types of pollutants are expected.

		schedule iv of HW(M, H& TBM) rules, 2008 - Items namely -Integrated Recycling Plants -Components of waste electrical and electronic assembles comprising accumulators and other batteries included on list A, mercury-switches, activated glass cullets from cathode-ray tubes and other activated glass and PCB-capacitors, or any other component contaminated with Schedule 2 constituents (e.g. cadmium, mercury, lead, polychlorinated biphenyl) to an extent that they exhibit hazard characteristics indicated in part C of this Schedule.										
34.	43	Manufacturing of glue and gelatin	30	10	40	20	-	20	-	75	R-R	Highly water pollution & obnoxious air pollution.
35.	49	Mining and ore beneficiation	30	10	40	15	5	20	-	75	R-R	Both air and water pollution. Score is normalized with air & water pollution.
36.	52	Nuclear power plant	10		10	30		30	15	75	R-R	i. Mainly air pollution due to incinerator. Others - cooling water. ii. Air pollution score is normalized to 100.
37.	58	Pesticides (technical) (excluding formulation)	30		30	25		25	20	75	R-R	i. This industrial sector is the one among the '17 categories of Highly Pollution Industries'. ii. Such types of industrial sectors generate all sorts of pollution.
38.	64	Photographic film and its chemicals	30		30					75	R-R	i. Silver salts and other chemicals are used in preparation. Slight quantity of effluents is generated. ii. Water pollution scores are normalized to 100.

39.	68	Railway locomotive work shop/Integrated road transport workshop/Authorized service centers	20	10	30				10	75	R-R	<ul style="list-style-type: none"> i. Mainly water pollution industry . Water is used in the washing of locomotives, road transport vehicles during servicing. ii. This score is valid for those Centers having discharge more than 100 KLD. iii. Service Centers having waste-water generation < 100 KLD, the normalized score will be $= (100*20)/40 = 50$.
40.	84	Yarn / Textile processing involving any effluent/emission generating processes including bleaching, dyeing, printing and colouring	30	10	40	15		15	20	75	R-R	In this sector all sorts of pollution are generated.
41.	8	Chlor Alkali	30	10	40	20	10	30	10	80	R-R	<ul style="list-style-type: none"> i. This industrial sector is the one among the '17 categories of Highly Pollution Industries'. ii. Chlor-alkali units are having different section like NaOH, Cl₂, SBP etc which are having toxic effluents. Additionally , fuel consumption is also on higher-side.
42.	70	Ship Breaking Industries	30		30	30		30	20	80	R-R	<ul style="list-style-type: none"> i. The ship-breaking industry creates numerous hazards for the coastal and marine environment. 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. iii. While most of the oil is removed before a ship is scrapped, sand used to mop up the remaining oil

												<p>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>
43.	53	Oil and gas extraction including CBM (offshore & on-shore extraction through drilling wells)	30	-	30	-	-	-	20	83	R-R	<p>i. Mainly water pollution & hazardous waste generating.</p> <p>ii. The water pollution & HW generation scores are normalized to 100.</p>
44.	36	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 / enamellings/ galvanizing	30		30				20	83	R-R	Mainly water pollution & toxic hazardous waste generating industry. Scores are normalized to 100.
45.	80	Tanneries	30	-	30	-	-	-	20	83	R-R	Mainly water pollution & hazardous waste generating industry.

												Scores are normalized to 100.
46.	65	Ports and harbour, jetties and dredging operations	30	10	40	15	10	25	20	85	R-R	This category contain all sorts of pollution.
47.	77	Synthetic fibers including rayon ,tyre cord, polyester filament yarn	30	10	40	25	10	35	10	85	R-R	This sector generates all sorts of pollution problems.
48.	81	Thermal Power Plants	30	10	40	20	10	30	15	85	R-R	i. This industrial sector is the one among the '17 categories of Highly Pollution Industries'. ii. TPP generate all sorts of pollution problems.
49.	71	Slaughter house (as per notification S.O.270(E)dated 26.03.2001)and meat processing industries, bone mill, processing of animal horn, hoofs and other body parts	25	10	35					87.5	R-R	Mainly water pollution and obnoxious odour generating industry. The water pollution score is normalized to 100
50.	2	Aluminum Smelter	30	10	40	20	10	30	20	90	R-R	i. This industrial sector is the one among the '17 categories of Highly Pollution Industries'. ii. This sector is generating all sorts of pollution i.e. air, water and HW.
51.	12	Copper Smelter	30	10	40	20	10	30	20	90	R-R	i. This industrial sector is the one among the '17 categories of Highly Pollution Industries'. ii. Integrated Copper smelters contain all pollution.
52.	20	Fertilizer (basic) (excluding formulation)	30	10	40	20	10	30	20	90	R-R	i. This industrial sector is the one among the '17categories of Highly Pollution Industries'. ii .Generates all sorts of pollution.
53.	37	1.Iron & Steel (involving processing from ore/ integrated	30	10	40	20	10	30	20	90	R-R	i. This industrial sector is the one among the '17categories of Highly

		steel plants) and or Sponge Iron units 2.Iron ore slag manufacturing units											Pollution Industries'. ii. Such types of industrial sectors generate all sorts of pollution.
54.	61	Pulp & Paper (waste paper based units with bleaching process to manufacture writing & printing paper)	25	10	35	25	10	35	20	90	R-R		Waste paper based Pulp & Paper mills with bleaching process generate all sorts of pollution.
55.	85	Zinc Smelter	30	10	40	20	10	30	20	90	R-R		i. This industrial sector is the one among the '17categories of Highly Pollution Industries'. ii. Integrated Zinc smelter generates all sorts of pollution problems.
56.	55	Oil Refinery (mineral Oil or Petro Refineries)	30	10	40	25	10	35	20	95	R-R		i. This industrial sector is the one among the '17categories of Highly Pollution Industries'. ii. Such types of industrial sectors generate all sorts of pollution.
57.	59	Petrochemicals Manufacturing (including processing of Emulsions of oil and water)	30	10	40	25	10	35	20	95	R-R		i. This industrial sector is the one among the '17categories of Highly Pollution Industries'. ii. Such types of industrial sectors generate all sorts of pollution. iii. The earlier red category industrial sector namely "Processing of Emulsions of Oil & Water " is merged with this industrial sector.
58.	60	Pharmaceutical (Bulk drug & Active Pharmaceutical Ingredients (API)) &/or R & D in Pharma sector including Bio Technology activity.	30	10	40	30	5	35	20	95	R-R		i. This industrial sector is the one among the '17categories of Highly Pollution Industries'. ii. Such types of industrial sectors generate all sorts of pollution.
59.	61	Pulp & Paper (Large-Agro + wood) , Small Pulp & Paper (agro based-wheat straw/rice husk)	30	10	40	25	10	35	20	95	R-R		i. This industrial sector is the one among the '17categories of Highly Pollution Industries'. ii. Large /Small Agro based Pulp &

												Paper mills contribute all sorts of pollution problems. iii. Man Made fibre industry (semi synthetic) and Rayon Grade Pulp Manufacturing may also be considered under this category.
60.	15	Distillery (molasses / grain / yeast based) &/or Composting of Press mud, Bio-fertilizer and organic Nutrients using Spent Wash	30	10	40	--	--	--	--	100	R-R	Mainly water pollution industry. Final score is the normalized water pollution score. Fenny manufacture may also be considered under this category.
61	76	Synthetic detergents and soaps(excluding formulation) with effluent quantity is more than 100KLD	30	10	40	15	--	15	--	69	Orange in New CPCB List At SI.No-13	This category is appearing in CPCB main list under Orange category at SI.NO-13. In the remarks it is mentioned that the units having waste-water generation more than 100 KLD and accordingly normalized water pollution score will be 75 and be categorized as Red. Hence this activity with more than 100 KLD is included in the Red category.
62	3	Automobile servicing, repairing and painting with effluent quantity is more than 100KLD	30	10	40	--	--	--	15	91	Orange in New CPCB List At SI.No-18	This category is appearing in CPCB main list under Orange category at SI.NO-18. In the remarks it is mentioned that, the normal water & air pollution and recyclable waste oil generating. If the wastewater generation is more than 100 KLD and accordingly normalized water pollution score will be 75 and be categorized as Red.. Hence this activity with more than 100 KLD is included in the Red category.

63	8	Building and construction project more than 20,000 sq. m built up area painting with effluent quantity is more than 100KLD	20	10	30	15	5	20	10	60	Orange in New CPCB List At SI.No-21	This category is appearing in CPCB main list under Orange category at SI.NO-21. In the remarks mentioned that, After construction, it is mainly water pollution. If the discharge is more than 100 KLD, and accordingly normalized water pollution score will be 75 and be categorized as Red.. Hence this activity with more than 100 KLD is included in the Red category.
64	6	Ceramics and Refractories with coal consumption more than 12TPD	10	--	10	15	10	25	-	62.5	Orange in New CPCB List At SI.No-22	This category is appearing in CPCB main list under Orange category at SI.NO-22. In the remarks it is mentioned that, for the units having coal consumption > 12 MT /day, the normalized air pollution score will be 62.5 and shall be categorized as Red. Hence this activity with cal consumption more than 12 TPD is classified under Red
65	19	Fermentation industry including manufacture of yeast, beer, distillation of alcohol (Extra Neutral Alcohol) with effluent quantity is more than 100KLD	30	10	40	20	--	20	15	75	Orange in New CPCB List At SI.No-27	This category is appearing in CPCB main list under Orange category at SI.NO-27.In the remarks mentioned that, for the units having discharge > 100 KLD, the normalized water pollution score will be 75 and shall be accordingly categorized as Red. Hence this activity with more than 100 KLD is included in the Red category.
66	21	Ferrous and Non- ferrous metal extraction involving different furnaces through melting, refining, re-processing, casting and alloy-making	15	10	25	20	5	25	10	62.5	Orange in New CPCB List At SI.No-28	This category is appearing in CPCB main list under Orange category at SI.NO-28.In the remarks mentioned that 1. For lead, the normalized

		<p>For lead, the normalized air pollution score will be = $(100*25)/40= 62.5$ and is categorized as Red.</p> <p>2. For Induction Furnace clubbed with AOD furnace-separate calculation shall be made based on the capacity of the furnaces. In such industries, the molten metal from induction furnace is transferred to AOD furnace where other metals like manganese and nickel are added to get the metal of desired constituents. The lime and silicon are also added for reduction of the metal oxides to the base metal. the normalized air pollution score will be = $(100*25)/40= 62.5$ and is categorized as Red.</p>										<p>air pollution score will be = $(100*25)/40= 62.5$ and is categorized as Red.</p> <p>2. For Induction Furnace clubbed with AOD furnace-separate calculation shall be made based on the capacity of the furnaces. In such industries, the molten metal from induction furnace is transferred to AOD furnace where other metals like manganese and nickel are added to get the metal of desired constituents. The lime and silicon are also added for reduction of the metal oxides to the base metal. the normalized air pollution score will be = $(100*25)/40= 62.5$ and is categorized as Red. Hence this activity is included in the Red category also.</p>
67	35	<p>Industry or processes involving foundry operations (The units having capacity of 5 MT/hr and more, the coal/coke consumption will be more than 500 kg/hr and the normalized score will be 62.5 and classified accordingly as Red)</p>	15	10	25	20	5	25	10	62.5	<p>Orange in – New CPCB List At SI.No-42</p>	<p>This category is appearing in CPCB main list under Orange category at SI.NO-42. In the remarks mentioned that, the units having capacity of 5 MT/hr and more, the coal/coke consumption will be more than 500 kg/hr and the normalized score will be 62.5 and classified accordingly as Red. Hence this activity is appearing both</p>

PART-B

72	14	i) Common Effluent Treatment Plant, ii) Common Hazardous Waste TSDF/captive Secure land fill(SLF) iii) Common Hazardous Waste Incineration facility/captive incineration facility iv) CBMWTF, v) Solvent Recycling Acid recovery plant/Copper etchant/sludge (acid/ alkali etchant) recovery vi) MSW processing facility(compositing, sanitary landfill sites/bio-methanization plant/waste to energy etc)	30	10	40	15	5	20	20	80	R-R	This Category generates all types of wastes. As per the provisions of the Rules it is kept under Red Category.
73	32	Industrial estates/ parks/ complexes/ areas/ export processing zones/ SEZs/ Biotech parks/ leather complex	30	10	30	25	5	30	15	75	R-R	As per provisions of Rules, to be kept under Red category especially for safety and the nature of hazardous industries to be housed in these areas.
74	91	Printed circuit board manufacturing units	30	0	30	20	0	20	10	60	R-R	This sector generates all sorts of pollution problems.
75	105	Gold and Silver smithy (purification with acid, smelting operation and sulphuric acid polishing operation) (using More than 1 litre of Sulphuric Acid / Nitric Acid per month)	30	--	30	20	--	20	10	60	R-R	Such types of industrial sectors generate all sorts of pollution.
76	108	Rare Earth and Nuclear Fuel Complex	30	10	40	20	5	25	20	85	R-R	All the three types of pollutants are generated.
77	114	Processing of marigold / pellets	30	10	40	15	5	15	0	60	R-R	This sector generates effluents and

		/ for extraction of essential oils (concentrate) from marigold.											emissions
78	117	Reclaimed rubber manufacturing including pyrolysis	20	--	20	25	5	30	10	60	R-R	This sector generates all sorts of pollution problems.	
79	120	Soft drinks, aerated waters including pulp based(non-alcoholic beverages generating trade effluent >100KLD and / or fuel consumption > 12TPD	20	10	30	15	5	20	--	60	Boards List At SI.No-98 and CPCB list at SI.NO-53	This category is appearing in Boards main list under Orange category at SI.NO-98 and CPCB list at SI.NO-53, In the remarks mentioned that , For units having waste-water generation > 100KLD or fuel consumption > 12 TPD or both, the unit shall be classified as Red. In the remarks it is mentioned that For the units having waste-water generation > 100 KLD the , normalized score would be 62.5 and categorized as Red. Hence it appearing at Red, Orange and Green	
80		Printing of Currency notes & currency note paper manufacturing	30	--	30	20	--	20	10	60	R-R	Mainly water & air pollution . Water & air pollution scores are normalized to 100.	
81	133	Software units generating wastewater more than 100KLD and DG set capacity more than 5MVA	20	10	30	15	5	20	--	60	R-R	Normal water pollution generation	
82		STPs Established at Residential apartments, Commercial complex, Housing colony with wastewater generation more than 100KLD.	20	10	30	15	5	20	--	60	R-R	Normal water pollution	

83	125	Research and Analytical laboratories involving use of chemicals listed in .MSIHC Rules/ animals.	20	10	30	15	5	20	15	65	R-R	Such types of industrial sectors generate all sorts of pollution.
84		Stand alone Production of Industrial inorganic gases namely:- A)Chemical gases: Acetylene, hydrogen, chlorine, fluorine, ammonia, sulphur dioxide, ethylene, hydrogen sulphide, phosphine & etc B) Hydrocarbon gases: Methane, ethane, propane & etc	12	10	22	15	5	20	20	62	R-R	As per provisions of Rules, to be kept under Red category especially for safety purposes.

List of ORANGE Category Industries

PART-A

Final Sl. No.	Orgnl S.No	Industry Sector	W1	W2	W	A1	A2	A	H	W+A+H	Revised category	Remarks
1.	20	Dismantling of rolling stocks (wagons/ coaches)	--	--	--	15	--	15	10	41.67	O-O	Emissions of dust and generation of waste oils take place during dismantling. Air pollution & HW generation scores (15+10=25) are normalized to 100.
2.	5	Bakery and confectionery units with production capacity > 1 TPD. (With ovens / furnaces)	20	--	20	15	--	15	--	43.75	O-O	
3.	10	Chanachur and laddoo from puffed and beaten rice(muri and shira) using husk fired oven	20	--	20	15	--	15	--	43.75	O-O	Normal water and air pollution.
4.	23	Coated electrode manufacturing	15	0	15	20	0	20	0	43.75	G-O	Preparation of core wire / rod, preparation of dry mix, preparation of wet mix, application of coating by extrusion, baking of coated electrodes
5.	24	Compact disc computer floppy and cassette manufacturing / Reel manufacturing	15	0	15	20	0	20	0	43.75	G-O	Generates waste-water and process emissions.
6.	24	Flakes from rejected PET bottle	20	-	20	15	-	15	-	43.75	R-O	Normal water & air pollutions are generated.
7.	30	1. Food and food processing including fruits and vegetable processing 2. Milk chilling center	20	--	20	15	--	15	--	43.75	O-O	Normal water and air pollution. Meat trimming and packing may also be considered under

												this category.
8.	40	Jute processing without dyeing	20		20	15		15		43.75	O-O	CPCB has notified standards for this category. Both air and water pollutions are generated.
9.	56	Manufacturing of silica gel	15	0	15	20	0	20	0	43.75	G-O	Waste-waters containing TDS and emissions of H2SO4 are generated.
10.	45	Manufacturing of tooth powder, toothpaste, talcum powder and other cosmetic items	20	--	20	15	--	15	--	43.75	O-O	Both air and water pollution are generated.
11.	55	Printing or etching of glass sheet using hydrofluoric acid	15	--	15	20	--	20	--	43.75	O-O	Both air and water pollution are generated.
12.	65	Silk screen printing, sari printing by wooden blocks	20	--	20	15	--	15	--	43.75	O-O	Wash-water and PM emissions from boilers.
13.	76	Synthetic detergents and soaps(excluding formulation), units having generation of waste-water less than 100 KLD.	20	--	20	15	--	15	--	43.75	R-O	i.This is the score for units having generation of waste-water less than 100 KLD. ii. The units having waste-water generation more than100 KLD will become mainly water pollution and accordingly normalized water pollution score will be75 and be categorized as Red.
14.	71	Thermometer manufacturing	15	--	15	20	--	20	--	43.75	O-O	Process - making glass bulb, forming reservoir in the glass tube for fluid, inserting fluid, scale marking. Use of fuel to heat the glass tubes and hydrofluoric acid to seal the scaling. Small quantities of spent acids are generated.

15.	14	Cotton spinning and weaving (medium and large scale)	--	--	--	15	--	37.5	10	47.5	O-O	Mainly air pollution industry. Sources of air pollution (PM) are the fine particles of cotton from spinning process. Air pollution score is normalized to 100.
16.	1	Almirah, Grill Manufacturing (Dry Mechanical Process)	--	--	--	20	--	20	--	50	O-O	Air pollution due to spray painting (emissions of VOCs). Units without painting operations shall be categorized as White.
17.	2	Aluminium & copper extraction from scrap using oil fired furnace (dry process only)	--	--	--	20	--	20	10	50	O-O	i.Normalized Air pollution score. ii.Significant air pollution due to melting (emissions of SO ₂ , PM).
18.	3	Automobile servicing, repairing and painting (excluding only fuel dispensing)	20	--	20	20	--	20	10	50	O-O	i. Normal water & air pollution and recyclable waste oil generating. ii. If the waste water generation is more than 100 KLD, it will become mainly water pollution and Red category unit.
19.	4	Ayurvedic and homeopathic medicine	20	--	20	15	--	15	15	50	O-O	
20.	7	Brickfields (excluding fly ash brick manufacturing using lime process)	--	--	--	20	--	20	--	50	O-O	Significantly air pollution.
21.	8	Building and construction project more than 20,000 sq. m built up area	20	--	20	20	--	20	--	50	O-O	1. In the pre-construction stage , it is mainly air pollution due to generation of dust (PM) emissions. 2. After construction, it is mainly water pollution. If the

												discharge is more than 100 KLD, it will be having the normalized score of 75 and be categorized as Red.
22.	6	Ceramics and Refractories	--	--	--	20	--	20	--	50	R-O	i.Mainly air pollution industrie ii.This score is for the units having coal consumption < than 12 MT/day. iii. For the units having coal consumption > 12 MT /day, the normalized air pollution score will be 62.5 and shall be categorized as Red.
23.	11	Coal washeries	15	10	25	15	--	15	--	50	R-O	i. Wet washeries are mainly water pollution industry generating effluents which are having inorganic SS & TDS. Additionally, air pollution due to PM emissions is also generated. ii. Water &air pollution scores are jointly normalized to 100.
24.	16	Dairy and dairy products (small scale)	20	--	20	20	--	20	--	50	O-O	Water and air pollution both.
25.	18	DG set of capacity >1MVA but < 5MVA	--	--	--	20	--	20	--	50	O-O	Mainly air pollution . air pollution score is normalized to 100.
26.	17	Dry coal processing, mineral processing, industries involving ore sintering, pelletizing, grinding & pulverization	--	--	--	20	--	20	--	50	R-O	Mainly air pollution industry. Final score is the normalized air pollution score.
27.	19	Fermentation industry including	20	--	20	--	--	--	--	50	R-O	i.Mainly water pollution

		manufacture of yeast, beer, distillation of alcohol (Extra Neutral Alcohol)											industry. This is the normalized water pollution score for units having discharge < 100 KLD. ii. For the units having discharge > 100 KLD, the normalized water pollution score will be 75 and shall be accordingly categorized as Red.
28.	21	Ferrous and Non-ferrous metal extraction involving different furnaces through melting, refining, re-processing, casting and alloy-making	--	--	--	15	5	20	10	50	R-O	<p>i. Mainly air pollution.</p> <p>ii. This score is applicable to secondary production of ferrous & non-ferrous metals (excluding lead) up-to 1MT/hour production.</p> <p>iii. For lead, the normalized air pollution score will be = $(100 \times 25) / 40 = 62.5$ and is categorized as Red.</p> <p>iv. For Induction Furnace clubbed with AOD furnace - separate calculation shall be made based on the capacity of the furnaces. In such industries, the molten metal from induction furnace is transferred to AOD furnace where other metals like manganese and nickel are added to get the metal of desired constituents. The</p>	

												lime and silicon are also added for reduction of the metal oxides to the base metal. the normalized air pollution score will be = $(100*25)/40=62.5$ and is categorized as Red.
29.	26	1. Fertilizer (granulation / formulation / blending only) 2. Formulation of Pesticide, insecticide, & fungicide	--	--	--	20	--	20	--	50	O-O	Air pollution.
30.	27	Fish feed, poultry feed and cattle feed	--	--	--	20	--	20	--	50	O-O	Obnoxious odour , H2S etc. AP score is normalized to 100
31.	28	Fish processing and packing (excluding chilling of fishes)	20	--	20	--	--	--	--	50	O-O	Mainly water pollution. WP score is normalized to 100.
32.	31	Forging of ferrous and non- ferrous metals (using oil and gas fired furnaces)	--	--	--	20	--	20	--	50	O-O	Heating furnace. Mainly air pollution.
33.	32	Formulation/pelletization of camphor tablets, naphthalene balls from camphor/ naphthalene powders.	--	--	--	20	--	20	--	50	O-O	Mainly air pollution. Emissions of Benzene, HC are expected.
34.	33	Glass ceramics, earthen potteries and tile manufacturing using oil and gas fired kilns, coating on glasses using cerium fluorides and magnesium fluoride etc.	--	--	--	20	--	20	--	50	O-O	Mainly air pollution. Emissions of SO2 are expected.
35.	35	Gravure printing, digital printing on flex, vinyl	20	--	20	20	--	20	10	50	O-O	Waste waters , emissions of VOCs
36.	36	Heat treatment using oil fired furnace (without cyaniding)	--	--	--	20	--	20	--	50	O-O	Mainly air pollution and noise generating. AP Score is normalized to 100.
37.	28	Hot mix plants	--	--	--	20	--	20	--	50	R-O	Mainly air pollution. Air pollution score are normalized

												to 100.
38.	37	Hotels (< 3 star) or hotels/Resorts having > 20 rooms and less than 100 rooms. and waste-water generation less than 100 KLD and having a coal / oil fired boiler	20	--	20	20	--	20	--	50	O-O	Mainly water pollution. WP score is normalized to 100.
39.	38	Ice cream	20	--	20	20	--	20	--	50	O-O	Wash-water and boilers / oven for pasteurization.
40.	34	Industries engaged in recycling / reprocessing/ recovery/reuse of Hazardous Waste under schedule iv of HW(M, H& TBM) rules, 2008 - Items namely -Paint and ink Sludge/residues	--	--	--	20	0	20	0	50	R-O	Mainly air pollution. Air pollution score is normalized to 100
41.	34	Industries engaged in recycling / reprocessing/ recovery/reuse of Hazardous Waste under schedule iv of HW(M, H& TBM) rules, 2008 - Items namely - Brass Dross ,, Copper Dross,, Copper Oxide Mill Scale,, Copper Reverts, Cake & Residues,, Waste Copper and copper alloys in dispersible form,, Slags from copper processing for further processing or refining ,, Insulated Copper Wire,, Scrap/copper with PVC sheathing including ISRI-code material namely "Druid" ,, Jelly filled Copper cables ,, Zinc Dross-Hot dip Galvanizers SLAB,, Zinc Dross-Bottom Dross,, Zinc ash/Skimming arising from	10	--	10	20	--	20	10	50	R-O	Mainly air pollution.

		galvanizing and die casting operations,,Zinc ash/Skimming/other zinc bearing wastes arising from smelting and refining,, Zinc ash and residues including zinc alloy residues in dispersible from										
42.	35	Industry or processes involving foundry operations	--	--	--	20	--	20	--	50	R-O	<p>i.This score is valid for the foundries having capacity < 5 MT/hr as such units require the coal/coke @ < 500 kg/hr.</p> <p>ii.The units having capacity of 5 MT/hr and more, the coal/coke consumption will be more than 500 kg/hr andthe normalized score willbe 62.5 and classified accordingly as Red.</p>
43.	40	Lime manufacturing (using lime kiln)	--	--	--	20	--	20	--	50	R-O	Mainly air pollution
44.	41	Liquid floor cleaner, black phenyl, liquid soap, glycerol mono-stearate manufacturing	20	-	20	20	--	20	--	50	O-O	Both air and water pollution are generated.

45.	42	Manufacturing of glass	10	--	--	20	--	20	--	50	R-O	i.Mainly air pollution melting at 1500°C and refining ii. In case of lead glass , the score of A1 will be 25 and accordingly the normalized scores will be 62.5 i.e. Red
46.	43	Manufacturing of iodized salt from crude/ raw salt	12	--	12	20	--	20	--	50	O-O	Boiling in Evaporators (multiple effect evaporators), centrifuging, iodization with KIO3 mixing .Mainly air pollution. Air pollution score is normalized to 100.
47.	42	Manufacturing of mirror from sheet glass	--	--	--	20	--	20	--	50	O-O	Evaporator & furnace for heating the metal to be applied as reflector on mirror. Mainly air pollution.
48.	44	Manufacturing of mosquito repellent coil	--	--	--	20	--	20	--	50	O-O	Mainly air pollution. Toxic fumes are expected.
49.	46	Manufacturing of Starch/Sago	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
50.	46	Mechanized laundry using oil fired boiler	20	--	20	20	--	20	--	50	O-O	Both air and water pollution are generated.
51.	47	Modular wooden furniture from particle board, MDF< swan timber etc, Ceiling tiles/ partition board from saw dust, wood chips etc., and other agricultural waste using synthetic adhesive resin, wooden box making (With boiler)	--	--	--	20	-	20	--	50	O-O	1. Mainly air pollution. Boiler as well as VOCs from use of adhesives. 2. Without boiler, it will be a Green category industry.
52.	50	New highway construction project	-	-	-	20	-	20	-	50	R-O	Mainly air pollution project.

53.	51	Non-alcoholic beverages(soft drink) & bottling of alcohol/non alcoholic products	20	--	20	15	5	20		50	R-O	is.Both air and water pollution. Score is normalized with air & water pollution. This score is valid for industries having waste-water generation < 100 KLD. ii.For the units having waste-water generation > 100 KLD the , normalized score would be 62.5 and categorized as Red.
54.	49	Paint blending and mixing (Ball mill)	20	--	20	20	--	20	10	50	O-O	Both air and water pollution are generated.
55.	62	Paints and varnishes (mixing and blending)	20	0	0	20	0	20	0	50	G-O	Waste-waters as well as fumes of VOCs due to solvents, pigments, varnishes.
56.	51	Ply-board manufacturing(including Veneer and laminate) with oil fired boiler/ thermic fluid heater(without resin plant)	0	--	0	20	--	20	-	50	O-O	Mainly air pollution because of use of boiler. AP score is normalized to 100
57.	52	Potable alcohol (IMFL) by blending, bottling of alcohol products	20	--	20	--	--	--	--	50	O-O	Mainly water pollution. WP score is normalized to 100.
58.	54	Printing ink manufacturing	20	--	20	20	--	20	--	50	O-O	1. Pigments, binders and solvents are used. 2. Boiler is also used. 3. Emissions of VOCs take place.
59.	70	Printing press &/or Screen Printing	20	0	20	20	0	20	0	50	G-O	Colored waste-waters containing dyes and VOC emissions are generated.
60.	59	Reprocessing of waste plastic including PVC	20	--	20	20	--	20	--	50	O-O	Large quantities of wash-water and fugitive emissions are generated.

61.	61	Rolling mill (oil or coal fired) and cold rolling mill	10	--	10	20	--	20	--	50	O-O	Mainly air pollution. Air pollution score is normalized to 100. Others - cooling water and recyclable waste oils etc. are generated.
62.	67	Spray painting, paint baking, paint shipping	--	--	--	20	--	20	10	50	O-O	Mainly air pollution. Emissions of VOCs and HC 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)	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.
64.	73	Stone crushers &/or m-Sand	--	--	--	20	--	20	--	50	R-O	Mainly air pollution. Air pollution score is normalized to 100.
65.	75	Surgical and medical products including prophylactics and latex	20	--	20	20	--	20	--	50	R-O	Both air as well as water pollution. Air and water pollution scores are normalized to 100.
66.	85	Teflon based products	0	0	0	20	0	20	0	50	G-O	Due to spraying applications, emissions (HC) are generated
67.	70	Thermocol manufacturing (with boiler)	--	--	--	20	--	20	--	50	O-O	Polystyrene is heated. Mainly air pollution with boiler.
68.	82	Tobacco products including cigarettes and tobacco/opium processes	20	--	20	20	--	20	--	50	R-O	Such industries generate both air as well as water pollution. These scores are normalized to 100.
69.	72	Transformer repairing/ manufacturing (dry process only)	--	--	--	20	--	20	10	50	O-O	Mainly air pollution because of ovens, shot-blasting etc.

70.	73	1. Automobile Tyre & tube / Rubber Tubes manufacture and cycle Tubes (excluding baby boiler) 2. Tyres and tubes vulcanization/ hot retreating	10	--	10	20	--	20	--	50	O-O	Mainly air pollution . Emissions of PM, VOCs and obnoxious odour are generated.
71.	83	Vegetable oil manufacturing including solvent extraction and refinery /hydrogenated oils	20	--	20	15	5	20	10	50	R-O	i.All sorts of pollution are generated. ii.This score is valid for plants having waste-water generation < 100 KLD. iii. If the waste-water generation is more than 100 KLD, the unit shall be classified as Red.
72.	74	Wire drawing and wire netting	20	--	20	--	--	--	--	50	O-O	Mainly water pollution. WP score is normalized to 100.
73.	21	Dry cell battery (excluding manufacturing of electrodes) and assembling & charging of acid lead battery on micro scale	30	--	30	15	--	15	10	55	O-O	Water and air pollution both.
74.	50	Pharmaceutical formulation	20	-	20	20	-	20	15	55	O-O	i.All sorts of pollution are generated. ii.R&D activities are to be shifted to Red category.
75.	78	Synthetic resins	20	-	20	20	-	20	15	55	R-O	All sorts of pollution are generated.
76.	79	Natural Latex processing and/or Synthetic rubber manufacturing excluding molding	20	--	20	20	--	20	15	55	R-O	i.Most synthetic rubber is created from two materials, styrene and butadiene. Both are currently obtained from petroleum. ii.Process is similar to a

												part of Petrochemical plants.
77.	9	Cashew nut processing	25	--	25	20	--	20	--	56	O-O	Normal water and air pollution.
78.	12	Coffee seed processing and /or Manufacture of instant Coffee / Tea manufacturing	25	--	25	20	--	20	--	56	O-O	Normal water & air pollution industry.
79.	57	Parboiled Rice Mills	25	--	25	20	--	20	--	56	R-O	<p>i.Rice Mills are generating both air and water pollution. Waste-waters are having high strength in respect of BOD.</p> <p>ii.This is the normalized air & water pollution score for units having waste-water generation < 100 KLD and fuel consumption less than 12 MTD.</p> <p>iii. For units having waste-water generation > 100KLD or fuel consumption > 12 MTD or both , the unit shall be classified as Red.</p>
80.	29	Foam manufacturing	--	--	--	20	--	20	15	58	O-O	<p>i.Raw material is polyurethane, latex etc.</p> <p>ii. Emissions of VOCs and HAPs. CH₃Cl₂ and similar compounds as blowing agents.</p> <p>iii. Outdated raw materials and spoiled slots are</p>

												discarded as HW.
81.	34	Industries engaged in recycling / reprocessing/ recovery/reuse of Hazardous Waste under schedule iv of HW(M, H& TBM) rules, 2008 - Items namely -Used Oil - As per specifications prescribed from time to time.	10	0	10	20	0	20	15	58.33	R-O	Mainly air pollution and hazardous waste generating industry. Air pollution & HW scores are normalized to 100
82.	34	Industries engaged in recycling / reprocessing/ recovery/reuse of Hazardous Waste under schedule iv of HW (M, H& TBM) rules, 2008 - Items namely -Waste Oil ---As per specifications prescribed from time to time.	--	--	--	20	0	20	15	58.33	R-O	Mainly air pollution and hazardous waste generating industry. Air pollution & HW scores are normalized to 100.
83.	56	Producer gas plant using conventional up drift coal gasification (linked to rolling mills glass and ceramic industry refectories for dedicated fuel supply)	--	--	--	20	--	20	15	58.33	O-O	Mainly air pollution & tar (HW) generating. SO2, CO, NOx are generated. Tar is the byproduct and utilized by other industries in co-processing.
84	1	Airports and Commercial Air Strips with effluent quantity is less than 100KLD	--	10		20	--	20	15	58.33	O-O New CPCB ListAt SI.No-23- Red	This category is appearing in CPCB main list under red category at SI.NO-23. In the remarks it is mentioned that , for units having waste-water generation <100KLD or fuel consumption < 12 MTD or both , the unit shall be classified as Orange. Accordingly this category is appearing both in RED and ORANGE
85	26	Health-care Establishment (as defined in BMW Rules) with	--	10	10	20	5	25	10	50	O-O New	The hospitals having total waste water generation

		effluent quantity is less than 100KLD and without incinerator										CPCB List At SI.No-30-Red	less than 100 KLD and without incinerator, the normalized water pollution score will be 50 and shall be categorized as Orange category. Accordingly this category is appearing both in RED and ORANGE
86	54	Manufacturing of pasted veneers using Coal / Wood fired boiler	15	10	25	10	5	15	15	55		O-O CPCB List At SI.No-28 in green cat.	The units having coal fired boilers shall be categorized as Orange. Accordingly this category is appearing both in RED and ORANGE
87	69	Tea processing (with boiler)	--	--	--	15	--	15	--	37.5		G-O CPCB List At SI.No-63-Green	Without boiler it is in Green. With boiler, it is an orange category industry. Accordingly this category is appearing both in ORANGE and green
<u>PART-B</u>													
88	63	Cement bulk storage attached with bagging plant/bulk supply in tankers	12	-	12	20	5	25	-	37		O-O	Mainly air pollution, AP is Score is Normalized to 100
89	85	Pulping units(including fermenting coffee beans)	25	--	25	15	--	15	--	40		O-O	Mainly water pollution and WP score is normalized 100
90	95	CNS Shell oil manufacture (cashew or other similar shell)	20	0	20	10	5	15	0	44		O-O	Mainly water pollution and WP score is normalized 100
91	99	Manufacturing of Fluorescent tubular lamps/LED/CFL	30	--	30	15	--	15	10	55		O-O	Both air and water pollution are generated.
92	109	1. Helmet Manufacturing. 2. Fiber glass moulding, Fiber Glass reinforced plastic with spray painting	12	--	12	20	--	20	15	47		O-O	Both air and water pollution are generated.

93	112	Winery	20	0	20	20	--	20	0	50	O-O	Mainly water pollution and WP score is normalized 100
94	77	Manufacture of Chocolate, cocoa, mass etc., (Other than confectioneries)	20	0	20	20	--	20	0	50	O-O	Mainly water pollution and WP score is normalized 100
95	78	Desiccated coconut manufacturing	20	0	20	20	--	20	0	50	O-O	Mainly water pollution and WP score is normalized 100
96	105	Gold and Silver smithy (purification with acid, smelting operation and sulphuric acid polishing operation) (using Less than 1 litre of Sulphuric Acid / Nitric Acid per month)	10	--	10	20	--	20	10	50	R-O	Such types of industrial sectors generate all sorts of pollution.
97		Power generation plant "Waste to Energy Plant"	20	--	20	--	20	20	--	50	R-O	3. In case of 'Waste to Energy Plants', water will be used for cooling and air score will be - 30+10 = 40.
98	17	Cardboard or corrugated box and paper products using Boilers (excluding paper or pulp manufacturing)	20	--	20	--	20	20	--	50	O-O	water will be used for boiler and process and air score will be - 30+10 = 40.
99		Software units generating wastewater 11KLD to 100KLD and DG set capacity more than 1MVA to 5MVA	20	--	20	--	20	20	--	50	O-O	Normal water pollution generation
100		STPs Established at Residential apartments, Commeri Such types of industrial sectors generate all sorts of pollution.cal complex, Housing colony with wastewater generation less than 100KLD.	20	--	20	--	20	20	--	50	O-O	Normal water pollution
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)	10	--	10	--	5	5	15	30	O-O	Normal water & Air pollution

List of GREEN Category Industries
PART-A

Final Sl. No.	Orgnl S.No	Industry Sector	W1	W2	W	A1	A2	A	H	W+A+H	Revised category	Remarks
1.	2	Aluminum utensils from aluminum circles by pressing only (dry mechanical operation)	--	--	--	10	--	10	--	25	G-G	Minor air pollution due to some fugitive PM emissions from buffing operations.
2.	6	Ayurvedic and homeopathic medicines (without boiler)	10	--	10	--	--	--	--	25	G-G	Small quantities of waste-waters are generated from washing operations.
3.	8	Bakery / confectionery / sweets products (with production capacity <1tpd (with gas or electrical oven)	10	--	10	--	--	--	--	25	G-G	Small quantities of waste-waters are generated from washing operations.
4.	6	Bi-axially oriented PP film along with metalizing operations	10	--	10	--	--	--	--	25	O-G	Mainly extrusion process involving Cooling water recirculation
5.	10	Biomass briquettes (sun drying) without using toxic hazardous wastes	--	--	--	10	--	10	--	25	G-G	Minor air pollution due to some fugitive PM emissions from pulverization / mixing operations.
6.	13	1.Pulverizing Activity 2. Shell grit and shell grit powder 2. Blending of melamine resins & different powder, additives by	--	--	--	10	--	10	--	25	G-G	Minor air pollution due to some fugitive PM emissions from

		physical mixing										pulverization / mixing operations.
7.	15	Brass and bell metal utensils manufacturing from circles(dry mechanical operation without re-rolling facility)	--	--	--	10	--	10	--	25	G-G	Minor air pollution due to some fugitive PM emissions from buffing operations.
8.	16	Candy	10	--	10	10	--	10	--	25	G-G	Small quantities of waste-water and minor PM emissions are generated.
9.	17	Cardboard or corrugated box and paper products (excluding paper or pulp manufacturing and without using boilers)	--	--	--	10	--	10	--	25	G-G	This score is valid with Small gas / electricity operated oven / furnace for making glue.
10.	18	Carpentry & wooden furniture manufacturing (excluding saw mill) with the help of electrical (motorized) machines such as electrical wood planner, steel saw cutting circular blade, etc.	--	--	--	10	--	10	--	25	G-G	Minor air pollution due to some fugitive PM emissions from cutting operations.
11.	19	Cement products (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)	--	--	--	10	--	10	--	25	G-G	Minor air pollution due to some fugitive PM emissions from mixing operations.
12.	20	Ceramic colour manufacturing by mixing & blending only (not using boiler and wastewater recycling process)	--	--	--	10	--	10	--	25	G-G	Minor air pollution due to some fugitive PM emissions.

13.	11	Chilling plant, cold storage and ice making	--	--	--	10	--	10	--	25	O-G	Cooling water recirculation only.
14.	13	Coke briquetting (sun drying)	--	--	--	10	--	10	--	25	O-G	Mainly air pollution industry. Sources of air pollution (PM) are pulverizes and mixers. Air pollution score is normalized to 100.
15.	28	Cotton spinning and weaving (small scale)	--	--	--	10	--	10	--	25	G-G	Minor PM emissions from spinning process.
16.	17	Dal Mills	--	--	--	10	--	10	--	25	O-G	Some fugitive emissions of PM.
17.	29	Decoration of ceramic cups and plates by electric furnace	--	--	--	10	--	10	--	25	G-G	Fumes of enamels. Minor air pollution.
18.	19	Digital printing on PVC clothes	--	--	--	10	--	10	--	25	O-G	Minor emissions / odour generations are expected.
19.	25	Facility of handling, storage and transportation of food grains in bulk	--	--	--	10	--	10	--	25	O-G	Some fugitive emissions of PM during handling of grains.
20.	36	Flour mills (dry process)	--	--	--	10	--	10	--	25	G-G	Fugitive dust emissions.
21.	41	Glass , ceramic, earthen potteries, tile and tile manufacturing using electrical kiln or not involving fossil fuel kiln	--	--	--	10	--	10	--	25	G-G	Minor fugitive emissions only.

22.	34	Glue from starch (physical mixing) with gas / electrically operated oven /boiler.	--	--	--	10	--	10	--	25	O-G	Some fugitive emissions of PM during mixing of raw materials.
23.	42	Gold and silver smithy (purification with acid smelting operation and sulphuric acid polishing operation) (using less or equal to 1 litre of sulphuric acid/ nitric acid per month)	--	--	--	10	--	10	--	25	G-G	Minor fumes from cleaning process.
24.	36	Heat treatment with any of the new technology like ultrasound probe , induction hardening , ionization beam, gas carburizing etc.	10	--	10	10	--	10	--	25	O-G	i. Cooling waters and minor heat fumes. ii. Finalization of categorization subject to field verification.
25.	46	Insulation and other coated papers (excluding paper or pipe manufacturing)	--	--	--	10	--	10	--	25	G-G	Minor fumes due to application of poly-urethane
26.	49	Leather foot wear and leather products (excluding tanning and hide processing except cottage scale)	--	--	--	10	--	10	--	25	G-G	Minor fumes due to use of adhesives / gums.
27.	50	Lubricating oil, greases or petroleum based products (only blending at normal temperature)	--	--	--	10	--	10	--	25	G-G	Minor fumes at the time of transfers from one container to other.
28.	54	Manufacturing of pasted veneers using gas fired boiler or thermic fluid heater and by sun drying	--	--	--	10	--	10	--	25	G-G	1.Minor fumes due to application of gums/adhesives/ pastes etc. 2. This score is valid only for gas

												fired boiler. 3.The units having coal fired boilers shall be categorized as Orange.
29.	59	Oil mill Ghani and extraction (no hydrogenation / refining)	10	--	10	--	--	--	--	25	G-G	Small quantities of floor washings & equipments washings are generated.
30.	48	Packing materials manufacturing from non asbestos fibre, vegetable fibre yarn	--	--	--	10	--	10	--	25	O-G	Some fugitive emissions of PM are expected.
31.	65	Phenyl/toilet cleaner formulation and bottling	--	--	--	10	--	10	--	25	G-G	Minor fumes of VOCs in the work zone
32.	67	Polythene and plastic processed products manufacturing (virgin plastic)	10	--	10	10	--	10	--	25	G-G	Cooling water & emissions due to mixing of raw materials.
33.	68	Poultry, Hatchery and Piggery	--	--	--	10	--	10	--	25	G-G	Obnoxious odour containing H ₂ S, CH ₄ etc. and fugitive PM emissions
34.	69	Power looms (without dye and bleaching)	--	--	--	10	--	10	--	25	G-G	Minor emissions of PM.
35.	71	Puffed rice (muri) (using gas or electrical heating system)	--	--	--	10	--	10	--	25	G-G	Minor emissions of PM.
36.	57	Pulverization of bamboo and scrap wood	--	--	--	10	--	10	--	25	O-G	Some fugitive emissions of PM are expected.
37.	72	Ready mix cement concrete	--	--	--	10	--	10	--	25	G-G	PM emissions.

38.	73	Reprocessing of waste cotton	--	--	--	10	--	10	--	25	G-G	PM emissions.
39.	60	Rice mill (Rice hullers only)&/or Rice mill less than 12TPD/ Roller Flour Mills with wet process	--	--	--	10	--	10	--	25	O-G	PM emissions are generated. Mainly air pollution. AP score is normalized to 100
40.	62	Rolling mill (gas fired) and cold rolling mill	10	--	10	10	--	10	--	25	O-G	Mainly air pollution. AP score is normalized to 100
41.	75	Rubber goods industry (with gas operated baby boiler)	--	--	--	10	--	10	--	25	G-G	Some PM emissions and obnoxious odour.
42.	63	Saw mills	--	--	--	10	--	10	--	25	O-G	Mainly air pollution. PM and noise are generated.
43.	77	Soap manufacturing (hand made without steam boiling / boiler)	10	--	10	--	--	--	--	25	G-G	Small quantities of waste-water are generated.
44.	80	Spice grinding (20 HP motor)	--	--	--	10	--	10	--	25	G-G	Small quantities of fugitive emissions of raw materials.
45.	66	Spice grinding (20 hp motor)	--	--	--	10	--	10	--	25	O-G	Mainly air pollution. Fugitive emissions of PM.
46.	81	Steel furniture without spray painting	--	--	--	10	--	10	--	25	G-G	Obnoxious gases from welding as well as noise pollution.
47.	82	Steeping and processing of grains	10	--	10	--	--	--	--	25	G-G	Washing waters are generated.

48.	86	Tyres and tube retreading (without boilers)	--	--	--	10	--	10	--	25	G-G	Due to applications of binding gum / adhesives / cement, some obnoxious fumes may generate.
49.	22	Chilling plant and ice making without using ammonia	12	--	12	--	--	--	--	30	G-G	Cooling water and brine water circuits. Spillages / blow down may take place
50.	26	CO2 recovery	12	--	12	--	--	--	--	30	G-G	Normal water pollution from scrubbing action
51.	32	Distilled water (without boiler) with electricity as source of heat	12	--	12	--	--	--	--	30	G-G	TDS as distillation residues
52.	45	The Hotels/Resorts having more than 20 rooms and waste-water generation less than 10 KLD and having no-boiler & no hazardous waste generation	12	--	12	--	--	--	--	30	G-G	This score is valid for hotels having overall waste-water generation less than 10 KLD. waste-water generation and having no-boiler & no hazardous waste generation, the pollution score will be 20 & are categorized as Green. Accordingly this category is

												appearing both in RED ,ORANGE & GREEN
53.	53	Manufacturing of optical lenses (using electrical furnace)	12	--	12	--	--	--	--	30	G-G	Small quantities of waste-waters containing TDS, SS are generated.
54.	58	Mineralized water	12	--	12	--	--	--	--	30	G-G	RO Rejects.
55.	68	Tamarind powder manufacturing	12	--	12	15	--	15	--	33.75	O-G	<p>i. Dried tamarind fruits -cleaned and after soaking them in water they are boiled in steam jacketed kettle for about 40-45 minutes. Then pulp is extracted in pulper and dried in drum type drier and on cooling, the final product is packed.</p> <p>ii.Generates small quantities of waste waters and air emissions. Joint score is normalized to 100.</p>

56.	15	Cutting, sizing and polishing of marble and/or Granite stone.									O-G	Mainly water pollution . Water pollution score is normalized to 100.
57.	22	Emery powder (fine dust of sand) manufacturing	15	--	15	--	--	--	--	37.5	O-G	Air pollution. PM emissions take place during various stages of grindings of naturally occurring minerals.
58.	25	Flyash export, transport & disposal facilities	--	--	--	15	--	15	--	37.5	R-G	i.This is mainly air pollution activity. ii.This is the normalized score based on air pollution.
59.	48	Mineral stack yard / Railway sidings	--	--	--	15	--	15	--	37.5	R-G	i.Mainly air pollution due to loading, unloading, storage and transportation of the minerals. Waste-water generation mainly during rains only.
60.	54	1.Oil and gas transportation pipeline. 1. Repairing, cleaning,	--	--	--	10	5	15	--	37.5	R-G	i.Contains small gas based power plants up-to 5

		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)										MWs. 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.
61.	64	Seasoning of wood in steam heated chamber	--	--	--	15	--	15	--	37.5	O-G	Air pollution due to use boiler for supply of steam. Air pollution score is normalized to 100.
62.	84	Synthetic detergent formulation	--	--	--	15	--	15	--	37.5	G-G	i.This score is valid for the industries which are not manufacturing LABSA. It is procured from outside. ii.Small quantities of emissions are generated from mini boiler. iii.Air pollution score is normalized to 100.

63	69	Tea processing (without boiler)	--	--	--	15	--	15	--	37.5	O-G	With boiler, it is an orange category industry. Without boiler, it will be green category industry.
64	47	Modular wooden furniture from particle board, MDF< swan timber etc, Ceiling tiles/ partition board from saw dust, wood chips etc., and other agricultural waste using synthetic adhesive resin, wooden box making (With boiler)	--	10	10	-	5	5	10	25	O-G	Without boiler, it will be a Green category industry.
<u>PART-B</u>												
65	11	Block making for printing without foundry (excluding wooden block making)	--	10	10	15	--	15	--	25	G-G	Normal water & air pollution
66	86	Coffee curing, roasting and grinding (industrial scale)	--	10	10	15	--	15	10	35	G-G	Normal water & air pollution due to fugitive dust PM emission
67	88	Cotton ginning	--	10	10	15	--	15	10	35	G-G	Normal water & air pollution due to fugitive dust PM emission
68	91	Dry distempers without kilns / furnace	--	10	10	15	--	15	10	35	G-G	Normal water pollution & hazardous waste generation
69	95	Flori-cultures & Horticultures	--	10	10	15	--	15	10	35	G-G	Normal water pollution.
70	96	Formulation of Bio-Pesticides	--	10	10	15	--	15	10	35	G-G	Normal water &

		and herbicide										air pollution & hazardous waste generation
71	97	Formulation Organic Nutrient without the use of spent wash from distillery	--	10	10	15	--	15	10	35	G-G	Normal water & air pollution & hazardous waste generation
72	98	Garment Stitching/ Stitching of shoe uppers/ Cotton knitting including Socks, Shoe lace/ Readymade leather garments	--	10	10	15	--	15	10	35	G-G	Normal water pollution & hazardous waste generation.
73	104	Inter locking paving blocks/ Manual and wire cut bricks/ Mosaic tiles/ Roofing tiles, ridges, decorative tiles/ Stone ware pipes/ Terra-cotta	--	10	10	15	--	15	10	35	G-G	Normal water pollution & hazardous waste generation
74	105	Jaggery manufacturing	--	10	10	15	--	15	10	35	G-G	Normal water pollution
75	106	Kalyanamantapams & Community Halls (for DG Sets)	--	10	10	15	--	15	10	35	G-G	Normal water & air pollution
76	111	Manufacturing of veneer only/ Press Board Manufacturing	---	10	10	15	--	15	10	35	G-G	Normal water pollution & air pollution
77	113	Manufacture of Motor & Pumps without foundry (industrial scale)-	--	10	10	15	--	15	10	35	G-G	Normal water pollution & hazardous waste generation
78	116	Panel Board, Switches without electroplating/ Control panel equipment and power devices manufacturing/	-	10	10	15	--	15	10	35	G-G	Normal water pollution & hazardous waste generation
79	118	Plastic sack bags, woven sack	--	10	10	15	--	15	10	35	G-G	Normal water

		with HDPE, LDPE, Polythene bags (without recycling plastic)/ Plastic units covered under Plastic Rules, 2016/ PVC pipes, HDPE pipes etc., by extrusion											pollution & hazardous waste generation
80	122	RCC Railway Sleepers	--	10	10	15	--	15	10	35	G-G		Normal water & Air pollution & hazardous waste generation
81	125	Research laboratories not involving chemicals/animals	--	10	10	15	--	15	10	35	G-G		Normal water pollution & hazardous waste generation
82	131	Snuff manufacturing, Beedi manufacturing, chewing tobacco	--	10	10	15	--	15	10	35	G-G		Normal water & air pollution and dust fugitive emissions
83	132	Soft drinks, aerated waters excluding pulp based	--	10	10	15	--	15	10	35	G-G		Normal water pollution generating
84	133	Software units generating wastewater less than 10 KLD and DG set capacity upto 1MVA	--	10	10	15	--	15	10	35	G-G		Normal water pollution generation
85	139	Transformer assembly unit (industrial scale)	--	10	10	15	--	15	10	35	G-G		Normal water ,Air hazardous waste pollution
86	140	Tread rubber including pre-cured rubber	--	10	10	15	--	15	10	35	G-G		Normal water pollution
87	141	Umbrellas Assembly, rain coat stitching, tarpaulin stitching	--	10	10	15	--	15	10	35	G-G		Normal water pollution
88	147	Power press	--	10	10	15	--	15	10	35	G-G		Normal water pollution, because

												of ink and colored dye
89	152	Amusement Theme Park	-	10	10	15	--	15	10	35	G-G	Normal water and Air pollution
90	158	Polyurethane foam extrusion as an allied activity	-	10	10	15	--	15	10	35	G-G	Normal water and Air pollution
91	159	Manufacture of Adhesives and adhesive tapes &/or Label manufacturing	-	10	10	15	--	15	10	35	G-G	Normal water and Air, hazardous waste pollution
92	160	Shot blasting operation	-	10	10	15	--	15	10	35	G-G	Normal water and Air pollution
93	164	Manufacturing of nuts and bolts with cold forging	-	10	10	15	--	15	10	35	G-G	Normal water and Air pollution
94	165	Expelling oil from cotton seeds and removing soap from the oil	-	10	10	15	--	15	10	35	G-G	Normal water and Air pollution and foul smell
95	166	Shell Moulding without generating waste water	-	10	10	15	--	15	10	35	G-G	Normal Air pollution and hazardous waste generation
96	167	Manufacturing of insulated conductors including wire drawing without generation of trade effluents	-	10	10	15	--	15	10	35	G-G	Mainly air pollution and hazardous waste generation.
97	168	Activity of Powder Coating on surface of the furniture (3 in 1 chemical solution) without generating trade effluents	-	10	10	15	--	15	10	35	G-G	Normal Air and Hazardous waste pollution
98	107	Automobile Tyre & Tubes/rubber tubes only moulding/& or Manufacture of	-	10	10	15	--	15	10	35	R-G	Normal water and Air pollution

		Silicon Rubber Mouldings										
99	111	Foundry sand reclamation unit/ Foundry sand processing and/or resin coating of sand	-	--	--	--	--	15	--	37	R-G	Normal Air and Hazardous waste pollution
100	113	Activated carbon	10	5	15	--	--	5	--	33	R-G	Normal Air pollution
101		Infrastructure development projects including apartments/commercial complex < 20,000 sq.m	--	10	10	--	--	--	10	33	O-G	Mainly water pollution generation
102	79	Townships and Residential Area development Projects covering an area>10 Acers	--	10	10	--	--	--	10	33	O-G	Mainly water pollution generation
103	88	Washing and drying of natural rubber	--	10	10	--	--	--	10	33	O-G	Normal water and Air pollution with PM emissions
104	90	Dal Mills, grams roasting, drying	--	--	--	--	15	--	37	--	G-G	Normal Air pollution with PM and dust pollution
105	102	Ice blocks manufacturing, cold storage & refrigeration rooms	--	10	10	--	--	--	10	33	G-G	Normal water and Air pollution
106	146	Ice cream (Without boilers / oven for pasteurization)	--	10	10	--	--	--	10	33	G-G	Normal water and Air pollution with PM emissions Without boilers / oven for pasteurization.
107	93	Aquaculture pond including prawn hatcheries	10	--	10	-	--	--	10	33	R-G	Normal water pollution with foul smell
108	93	Fiber glass molding, Fiber Glass	10	--	10	-	--	--	10	33	G-G	Normal water

		reinforced plastic											pollution and hazardous waste pollution
109	81	Refilling, Repacking and blending of chemicals (formulation of chemicals)	10	--	10	-	--	--	10	33	G-G		Normal water pollution and hazardous waste pollution
110	27	Diesel Generator sets (250 KVA to 1 MVA)	-	--	--	--	--	15	--	37	G-G		Normal Air pollution
111		Manufacturing of Cartoon box cover using ETP Pulp sludge (producing from paper & Pulp industries)	10	--	10	-	--	--	10	33			Normal water pollution
112	66	Fragrance, flavours essence etc. for food additives	10	-	10	15	-	15	-	25	O-G		Normal water & air pollution
113		STPs Established at Residential apartments, Commercial complex, Housing colony with wastewater generation less than 10KLD.	10	--	10	-	--	--	10	33	G-G		Normal water pollution
114.	79	Solar power generation through solar photovoltaic cell, wind power and mini hydel power (more than 25 MW)									G-G		Normal pollution and hazardous waste pollution

List of WHITE Category Industries

PART-A

Final Sl. No.	Orgnl S.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	--	--	--	--	--	--	--	--	G-W

		and by maintaining pressure & temperature only for separation of other gases)									
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 51yde151es and vilas 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
<u>PART-B</u>											
37	83	Agarbathi Manufacturing	--	--	--	--	--	--	--	--	G-W
38	84	Atta chakkies, chilly & masala powder, powdering of spices	--	--	--	--	--	--	--	--	G-W
39	85	Body building of wooden boats & trawlers	--	--	--	--	--	--	--	--	G-W
40	94	Fish net manufacturing without dyeing	--	--	--	--	--	--	--	--	G-W
41	100	Gutka Packing units	--	--	--	--	--	--	--	--	G-W
42	101	Hair sizing	--	--	--	--	--	--	--	--	G-W
43	108	Laboratory ware including glass blowing	--	--	--	--	--	--	--	--	G-W
44	109	Maize flakes and Maize grit manufacturing	--	--	--	--	--	--	--	--	G-W
45	114	Repairing of electric motors and generators and motor rewinding (industrial scale). <i><u>Repair and overhaul of industrial marine gas turbine, air craft engines on job work basis.</u></i>	--	--	--	--	--	--	--	--	G-W

46	115	Optical frames without electroplating	--	--	--	--	--	--	--	--	G-W
47	123	Re-packing of finished products (Dry products)	--	--	--	--	--	--	--	--	G-W
48	128	Safety Match sticks	--	--	--	--	--	--	--	--	G-W
49	130	Silk twisting (excluding dyeing & de-gumming)	--	--	--	--	--	--	--	--	G-W
50	134	Sports Goods	--	--	--	--	--	--	--	--	G-W
51	155	Honey Processing	--	--	--	--	--	--	--	--	G-W
52	27	Diesel Generator sets (15 KVA to 250 KVA)	-	--	--	--	--	--	--	--	G-W
53	117	Pickle manufacturing	-	--	--	--	--	--	--	--	G-W
54	88	Import and storage of edible oil only	-	--	--	--	--	--	--	--	R-W
55	90	Broom Sticks manufacturing with artificial drying and bleaching without generating trade effluents.	-	--	--	--	--	--	--	--	O-W
57	143	Wax Candles (excluding manufacturing of waxes)	-	--	--	--	--	--	--	--	G-W
58		a)Non-bedded HCE's (clinics, dispensaries, clinical establishments, Health camps, vaccination centres, medical or surgical camps, blood donation camps, forensic laboratories) b)HCEs less than 30 beds	-	--	--	--	--	--	--	--	The water pollution index is <12. Hence, categorized under, White Category. However, since there is bio medical waste generation, Authorization under Bio Medical Waste Rules is required.

**Abstract of Final List of Board's
Red, Orange, Green Categories of Industries fitted with the revised CPCB list**

Sl No.	Original Categorization of the Board's list	Total number of Industries in CPCB Lists	Industries considered after CPCB Classification (including Earlier Board's List)	Total no of industries
1	2	3	4	5
1	Red	71	13	84
2	Orange	87	14	101
3	Green	64	50	114
4	White	36	22	58