

## CATEGORIZATION OF INDUSTRIAL SECTORS UNDER RED AS PER CPCB CRITERIA

CPCB Sl.No.	Red Category
1.	Isolated storage of Hazardous Chemicals (as per schedule of manufacturing, storage of Hazardous Chemicals Rules, 1989 as amended)
2.	Automobile Manufacturing (integrated facilities)
3.	Industries engaged in recycling / reprocessing/ recovery/reuse of Hazardous Waste under schedule IV of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 - Items namely - Spent cleared metal catalyst containing copper, Spent cleared metal catalyst containing zinc.
4.	Manufacturing of lubricating oils, grease and petroleum based products
5.	<b>DG Set of capacity <math>\geq</math> 5 MVA (O/o. 8909, dtd. 18.09.2020)</b>
6.	Industrial carbon including electrodes and graphite blocks, activated carbon, carbon black
7.	Lead acid battery manufacturing (excluding assembling and charging of lead-acid battery in micro scale)
8.	Phosphate rock processing plant
9.	Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydel Power Plant of capacity <25MW)
10.	Industries engaged in recycling / reprocessing/ recovery/reuse of Hazardous Waste under schedule IV of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016- Items namely - Spent catalyst containing nickel, cadmium, Zinc, copper, arsenic, vanadium and cobalt.
11.	Processes involving chlorinated hydrocarbons
12.	Sugar ( Excluding Khandsari)
13.	Fibre glass production and processing (excluding moulding)
14.	Fire crackers manufacturing and bulk storage facilities
15.	Industries engaged in recycling / reprocessing/ recovery/reuse of Hazardous Waste under schedule IV of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016- 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.
16.	Milk processes and dairy products (integrated project)
17.	Phosphorous and its compounds

18.	Pulp & Paper ( waste paper based without bleaching process to manufacture Kraft paper)
19.	Coke making, liquification, coal tar distillation or fuel gas making.
20.	Manufacturing of explosives, detonators, fuses including management and handling activities
21.	Manufacturing of paints varnishes, pigments and intermediate (excluding blending/mixing)
22.	Organic Chemicals Manufacturing
23.	Airports and Commercial Air Strips
24.	Asbestos & asbestos based industries
25.	Basic chemicals and electro chemicals and its derivatives including manufacturing of acid.
26.	Cement
27.	Chlorates, per-chlorates & peroxides
28.	Chlorine, fluorine, bromine, iodine and their compounds
29.	Dyes and Dye- Intermediates
30.	Health-care Establishment (as defined in BMW Rules, 2016) having total wastewater generation more than 100 KLD or with incinerator.
31.	Hotels having overall waste-water generation @ 100 KLD and more.
32.	Industries engaged in recycling / reprocessing/ recovery/reuse of Hazardous Waste under schedule IV of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016- Items namely – Lead acid battery plates and other lead scrap/ashes/residues not covered under Batteries (Management and Handling) Rules, 2001. [ * <b>Battery scrap, namely: i) Lead battery plates covered by ISRI, Code word “Rais” Battery lugs covered by ISRI, Code word “Rakes”. Scrap drained/dry while intact, lead batteries covered by ISRI, Code word “Rais”.</b> <b>ii) Used battery processing for recovery of lead (O/o. 8909, dtd. 18.09.2020)</b>
33.	Industries engaged in recycling / reprocessing/ recovery/reuse of Hazardous Waste under schedule IV of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016- 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.	Manufacturing of Glue and Gelatin

35.	Mining and ore beneficiation
36.	Nuclear power plant
37.	Pesticides (technical) (excluding formulation)
38.	Photographic film and its chemicals
39.	Railway locomotive work shop/Integrated road transport workshop / Authorized service centers
40.	Yarn / Textile processing involving any effluent/emission generating processes including bleaching, dyeing, printing and colouring.
41.	Chlor Alkali
42.	Ship Breaking Industries
43.	Oil and gas extraction including CBM (offshore & on-shore extraction through drilling wells)
44.	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
45.	Tanneries
46.	Ports and harbour, jetties and dredging operations
47.	Synthetic fibers including rayon ,tyre cord, polyester filament yarn
48.	Thermal Power Plants
49.	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
50.	Aluminium Smelter
51.	Copper Smelter
52.	Fertilizer (basic) (excluding formulation)
53.	Iron & Steel (involving processing from ore/ integrated steel plants) and or Sponge Iron units.
54.	Pulp & Paper ( waste paper based units with bleaching process to manufacture writing & printing paper)
55.	Zinc Smelter
56.	Oil Refinery (Mineral Oil or Petro Refineries)
57.	Petrochemicals Manufacturing (including processing of Emulsions of oil and water )
58.	Pharmaceuticals
59.	Pulp & Paper ( Large-Agro + wood), Small Pulp & Paper ( agro based-

	wheat straw/rice husk)		
60.	Distillery (Molasses/ Grain / Yeast Based)		
61.	<b>Railway Stations (Wastewater Generation <math>\geq</math>100 KLD) (O/o. 8909, dtd. 18.09.2020)</b>		
62.	Semi-conductor manufacturing industries Industrial Sector i) Semi-conductor fabs manufacturing ii) Display Fabs manufacturing iii) Compound semiconductors/ silicon photonics/Sensor Fabs manufacturing <b>(O/o 2672 dtd. 28.02.2024)</b>		
63.	Sand/River bed material mining from river bed and its floodplains (excluding manual Excavation) <b>(O/o 2672 dtd. 28.02.2024)</b> Non-industrial Operation		
	<table border="1"> <tr> <td>i) Mining lease area more than 5 hectares or Mining lease up to 5 hectares, which is part of cluster mining</td> <td> i) Sand /river bed material mining from riverbed and its flood plains may cause ecological disturbances, erosion of riverbed, change in hydro-geological condition and river eco system.  ii) Cluster mining means that the distance of mining lease area is less than 500m from periphery of another lease area.  iii) This categorization is made considering the ecological damages and not based on pollution potential/index. </td> </tr> </table>	i) Mining lease area more than 5 hectares or Mining lease up to 5 hectares, which is part of cluster mining	i) Sand /river bed material mining from riverbed and its flood plains may cause ecological disturbances, erosion of riverbed, change in hydro-geological condition and river eco system. ii) Cluster mining means that the distance of mining lease area is less than 500m from periphery of another lease area. iii) This categorization is made considering the ecological damages and not based on pollution potential/index.
i) Mining lease area more than 5 hectares or Mining lease up to 5 hectares, which is part of cluster mining	i) Sand /river bed material mining from riverbed and its flood plains may cause ecological disturbances, erosion of riverbed, change in hydro-geological condition and river eco system. ii) Cluster mining means that the distance of mining lease area is less than 500m from periphery of another lease area. iii) This categorization is made considering the ecological damages and not based on pollution potential/index.		
64.	Others (State Specific List)		

### State Specific List



Sl.No.	Red Category
SSL (1)	Automobile servicing, repairing and painting (excluding only fuel dispensing) having wastewater generation 100 KLD or more.
SSL (2)	Building and construction project > 20,000 sq.m to ≤ 1,50,000 Sqm of built up area. (Wastewater discharge ≥ 100 KLD) <b>* ≤ 20,000 Sqmt. need not require CTO/ CTE from the Board. (O/o. 8909, dtd. 18.09.2020)</b>
SSL (3)	Ceramics and Refractories (More than 12 Tons / day coal consumption)
SSL (4)	Common Effluent Treatment Plant (CETP)/ Common Sewage Treatment Plant
SSL (5)	Common Hazardous Waste Treatment, Storage, Disposal facility (CHWTSDF)
SSL (6)	Common Solid Waste Management facility (CSWMF) as per Solid Waste Management Rules, 2016.
SSL (7)	Fermentation industry including manufacture of Yeast, Beer, Distillation of Alcohol extra Neutral Alcohol having wastewater discharge more than 100 KLD
SSL (8)	Ferrous / Non-ferrous metal extraction ((i) more than 1 Metric ton / hour secondary production, (ii) lead secondary production, (iii) Induction furnace followed with AOD
SSL (9)	Foundries with production capacity more than 5T/hour and more, coal/coke consumption more than 500 kg/hr,
SSL (10)	Gold and silver smithy –purification with acid smelting operation and sulphuric acid polishing operation having more than 1 liter of sulphuric acid / nitric acid per month.
SSL (11)	Hydro Cyanide acid and its derivatives
SSL (12)	Industrial Estates/ Parks /Complexes/ Areas, Export Processing Zones (EPZs), Special Economic Zones (SEZs), Biotech Parks
SSL (13)	Industrial or inorganics gases namely (a) chemical gases like acetylene, hydrogen, chlorine, fluorine, ammonia, sulphur dioxide, ethylene, hydrogen sulphide, phosphine, (b) hydrocarbon gases like methane, butane, ethane, propane.
SSL (14)	Insecticides / fungicides / herbicides / agrochemical formulation.
SSL (15)	Laboratory chemicals involving distillation and purification process.
SSL (16)	Lead manufacturing including smelting
SSL (17)	Manufacturing of lead glass

SSL (18)	Non-alcoholic beverages (soft drink) & bottling of alcohol / non-alcoholic products, where wastewater generation is more than 100 KLD.
SSL (19)	Parboiled Rice Mills having wastewater more than 100 KLD and/or Fuel consumption more than 12 T/Day.
SSL (20)	Petroleum products / crude oil storage and transfer excluding cross country pipeline.
SSL (21)	Synthetic Detergents and soaps (excluding formulation) having wastewater generation more than 100 KLD
SSL (22)	Township and area development projects covering an area more than or equal to 50 Ha. Or built up area more than or equal to 1.5 lakh sq.m.
SSL (23)	Vegetable oil manufacturing including solvent extraction and refinery / hydrogenated oils having wastewater generation more than 100 KLD.
SSL (24)	Water softening and demineralized plant
SSL (25)	Calcined Petroleum Coke
SSL (26)	Pyrolysis Process
SSL (27)	Aluminium Ingot from Aluminium Dross
SSL (28)	Common Biomedical Waste treatment and disposal facility
SSL (29)	Sanitary Land fill (Standalone) > 5 TPD
SSL (30)	Packing of Pesticides / Chemicals
SSL (31)	Septage Treatment (It should be treated as a part of common STP)
SSL (32)	Pharmaceuticals R & D purpose
SSL (33)	<b>E-Waste Re-processing / Recycling (O/o. 8909, dtd. 18.09.2020)</b>
SSL (34)	<b>All hazardous Waste Reprocessing / recycling units including Aluminium Dross, SPL, Used Anode Butts etc., of Aluminium Smelter Plant. (O/o. 8909, dtd. 18.09.2020)</b>
SSL (35)	<b>Manufacturing of Bio-Diesel having wastewater generation more than 100 KLD (O/o 1543, dtd. 04.02.2023)</b>
SSL (36)	<b>Storage of Hazardous Waste (O/o 1543, dtd. 04.02.2023)</b>
SSL (37)	<b>Green Hydrogen and Green Ammonia Project (O/o 6823 dtd. 04.05.2024)</b>

Amended "Compressed / refined Bio-Gas production from Biodegradable Wastes" to "Compressed Bio-Gas (CBG) / Bio - CNG Plants" (O/o 12678 dtd.



9.08.2023)		
a)	CBG Plants based on Municipal Solid Waste (MSW)	Discharge of wastewater is more than 100 KLD & Pollution Index (PI) is 60.
b)	CBG Plants based on process waste (Industrial / process liquid effluent and solid waste like press mud, organic sludge, molasses, etc.)	Discharge of wastewater is more than 100 KLD & Pollution Index (PI) is 60.

**(O/o 2704 dtd. 29.02.2024)**

<b>Waste water generation upto KLD AND BUILT UP AREA</b>	<b>Category</b>
Waste water > 100 KLD and Built up Area >20,000 – 1,50,000	Red (SSL-2)
Waste water ≥ 50 KLD and Built up Area > 1,50,000	Red (SSL-2)
Township & area development projects covering an area more than or equal to 50 Ha or build up area more than or equal to 1.5 lakh sq.m	Red (SSL -22)