

SCHEDULE I

LIST I

**GENERAL STANDARDS AND CRITERIA FOR THE DISCHARGE OF
INDUSTRIAL EFFLUENTS INTO INLAND SURFACE WATERS**

NO.	PARAMETER	UNIT	TOLERANCE LIMIT
		TYPE OF LIMIT	VALUES
01	Total suspended solids	mg/l, max.	50
02	Particle size of the total suspended solids	µm, less than	850
03	pH at ambient temperature	-	6.0 – 8.5
04	Biochemical oxygen demand (BOD ₅ in five days at 20° C or BOD ₃ in three days at 27°C)	mg/l, max.	30
05	Temperature of discharge	°C, max.	Shall not exceed 40°C in any section of the stream within 15 m down stream from the effluent outlet.
06	Oils and greases	mg/l, max.	10
07	Phenolic compounds (as C ₆ H ₅ OH)	mg/l, max.	1
08	Chemical oxygen demand (COD)	mg/l, max.	250
09	Colour	Wavelength Range 436 nm (Yellow range) 525 nm (Red range) 620 nm (Blue range)	Maximum spectral absorption coefficient 7m ⁻¹ 5m ⁻¹ 3m ⁻¹ (to be rounded up to the nearest 0.1 m)
10	Dissolved phosphates (as P)	mg/l, max.	5

11	Total Kjeldahl nitrogen	mg/l, max.	150
12	Ammoniacal nitrogen (as N)	mg/l, max.	50
13	Cyanide (as CN)	mg/l, max.	0.2
14	Total residual chlorine	mg/l, max.	1.0
15	Fluorides (as F)	mg/l, max.	2.0
16	Sulphide (as S)	mg/l, max.	2.0
17	Arsenic (as As)	mg/l, max.	0.2
18	Cadmium (as Cd)	mg/l, max.	0.1
19	Chromium, total (as Cr)	mg/l, max.	0.5
20	Chromium, Hexavalent (as Cr ⁶⁺)	mg/l, max.	0.1
21	Copper (as Cu)	mg/l, max.	3.0
22	Iron (as Fe)	mg/l, max.	3.0
23	Lead (as Pb)	mg/l, max.	0.1
24	Mercury (as Hg)	mg/l, max.	0.0005
25	Nickel (as Ni)	mg/l, max.	3.0
26	Selenium (as Se)	mg/l, max.	0.05
27	Zinc (as Zn)	mg/l, max.	2.0
28	Pesticides	mg/l, max.	0.005
29	Detergents/surfactants	mg/l, max.	5
30	Faecal coliform	MPN/100 ml, max	40
	Radio Active Material:		
31	(a) Alpha emitters	micro curie/ml max	10 ⁻⁸
	(b) Beta emitters	micro curie/ml max	10 ⁻⁷

Note 1: All efforts should be made to remove unpleasant odour as far as possible.

Note 2: These values are based on dilution of effluents by at least 8 volumes of clean receiving water. If the dilution is below 8 times, the permissible limits are multiplied by the 1/8 of the actual dilution.

Note 3: The above mentioned general standards shall cease to apply with regard to a particular industry when industry specific standards are notified for

that industry.

Note 4: Pesticides as per World Health Organization (WHO) and Food and Agriculture Organization (FAO) requirements.

LIST II
TOLERANCE LIMITS FOR INDUSTRIAL EFFLUENTS DISCHARGED
ON LAND FOR IRRIGATION PURPOSE

NO:	PARAMETER	UNIT, TYPE OF LIMIT	TOLERANCE LIMIT VALUE
1	Total dissolved solids	mg/l, max.	2100
2	pH at ambient temperature	-	5.5 – 9.0
3	Biochemical oxygen demand (BOD ₅ in five days at 20° C or BOD ₃ in three days at 27°C)	mg/l, max.	250
4	Oils and greases	mg/l, max.	10.0
5	Chemical Oxygen Demand (COD)	mg/l, max.	400
6	Chlorides (as Cl)	mg/l, max.	600
7	Sulphates (as SO ₄)	mg/l, max.	1000
8	Boron (as B)	mg/l, max.	2.0
9	Arsenic (as As)	mg/l, max.	0.2
10	Cadmium (as Cd)	mg/l, max.	2.0
11	Chromium, total (as Cr)	mg/l, max.	1.0
12	Lead (as Pb)	mg/l, max.	1.0
13	Mercury (as Hg)	mg/l, max.	0.01
14	Sodium adsorption ratio (SAR)	-	10-15
15	Residual sodium carbonate (RSC)	mol/l, max.	2.5
16	Electrical conductivity	µS/cm, max.	2250
17	Faecal coliform	MPN/100ml, max.	40
18	Copper (as Cu)	mg/l, max.	1.0
19	Cyanide (as CN)	mg/l, max.	0.2
20	Radio Active Material:		
	(a) Alpha emitters	micro curie/ml, max	10 ⁻⁹
	(b) Beta emitters	micro curie/ml, max	10 ⁻⁸

Hydraulic loading applicable for different

Solis:

Soil Texture Class	Recommended dosage of settled industrial effluents (m ³ /hectare,day)
1. Sandy	225 – 280
2. Sandy loam	170 – 225
3. loam	110 -170
4. clay loam	55 – 110
5. clay	35 – 55

LIST III

TOLERANCE LIMITS FOR INDUSTRIAL AND DOMESTIC EFFLUENTS DISCHARGED INTO MARINE COASTAL AREAS

NO.	PARAMETER	UNIT TYPE OF LIMIT	TOLERANCE LIMIT VALUES
1	Total suspended solids	mg/ l, max.	150
2	Particle size of-	mm, max	3
	(a) Floatable solids	µm, max	850
	(b) Settlable solids		
3	pH at ambient temperature	-	5.5 – 9.0
4	Biochemical oxygen demand (BOD ₅ in five days at 20 ^o C or BOD ₃ in three days at 27 ^o C)	mg/ l, max.	100
5	Temperature	^o C, max	45 ^o C at the point of discharge
6	Oils and greases	mg/ l, max.	20
7	Phenolic compounds (as Phenolic OH)	mg/ l, max.	5.0
8	Chemical oxygen demand (COD)	mg/ l, max.	250

9	Total residual chlorine	mg/ l, max.	1.0
10	Ammoniacal Nitrogen (as N)	mg/ l, max.	50
11	Cyanide (as CN)	mg/ l, max.	0.2
12	Sulphides (as H ₂ S)	mg/ l, max.	5.0
13	Fluorides (as F)	mg/ l, max.	15
14	Arsenic (as As)	mg/ l, max.	0.2
15	Cadmium (as Cd)	mg/ l, max.	2.0
16	Chromium, total (as Cr)	mg/ l, max.	2.0
17	Chromium, Hexavalent (as Cr ⁶⁺)	mg/ l, max.	1.0
18	Copper (as Cu)	mg/ l, max.	3.0
19	Lead (as Pb)	mg/ l, max.	1.0
20	Mercury (as Hg)	mg/ l,max.	0.01
21	Nickel (as Ni)	mg/ l,max.	5.0
22	Selenium (as Se)	mg/ l,max.	0.1
23	Zinc (as Zn)	mg/ l,max.	5.0
24	Pesticides	mg/ l,max.	0.005
25	Organo-Phosphorus compounds	mg/l, max	1.0
26	Chlorinated hydrocarbons (as Cl)	mg/l, max	0.02
27	Faecal coliform	MPN/100ml, max	60
28	Radio Active Material:		
	(c) Alpha emitters	micro curie/ml, max	10 ⁻⁸
	(d) Beta emitters	micro curie/ml, max	10 ⁻⁷

Note 1: All efforts should be made to remove unpleasant odour and colour as far as practicable.

Note 2: These values are based on dilution of effluents by at least 8 volumes of clean receiving water. If the dilution is below 8 times, the permissible limits are multiplied by the 1/8 of the actual dilution.

LIST IV

TOLERANCE LIMITS FOR EFFLUENTS FROM RUBBER FACTORIES BEING DISCHARGED INTO INLAND SURFACE WATERS

	PARAMETERS	UNIT, TYPE OF LIMIT	TOLERANCE LIMIT VALUE	
			TYPE I* FACTORIES	TYPE II** FACTORIES
1	pH value at ambient temperature	-	6.5 to 8.5	6.5 to 8.5
2	Total suspended solids	mg/1, max.	100	100
3	Total Solids	mg/1, max.	1500	1000
4	Biochemical Oxygen Demand, BOD ₅ in five days at 20°C or BOD ₃ in three days at 27°C	mg/1, max.	60	50
5	Chemical Oxygen Demand (COD)	mg/1, max.	400	400
6	Total Nitrogen (as N)	mg/1, max.	300	60
7	Ammoniacal Nitrogen (an N)	mg/1, max.	300	40
8	Sulphides (as S)	mg/1, max.	2.0	2.0

* *Type I Factories* - Latex Concentrate

** *Type II Factories* - Standard Lanka Rubber;

Crepe Rubber and Ribbed Smoked Sheets

Note 1: All efforts should be made to remove unpleasant odour and colour as far as practicable.

Note 2: These values are based on dilution of effluents by at least 8 volumes of clean receiving water. If the dilution is below 8 times, the permissible limits are multiplied by the 1/8 of the actual dilution.

LIST V TOLERANCE LIMITS FOR EFFLUENTS FROM TEXTILE INDUSTRY BEING DISCHARGED INTO INLAND SURFACE WATERS

NO.	PARAMETER	UNIT TYPE OF LIMIT	TOLERANCE LIMIT VALUES
01	pH value at ambient temperature		6.5 to 8.5
02	Temperature	°C, max.	40 measured at site of sampling
03	Total suspended solids	mg/l, max.	50
04	Biochemical Oxygen Demand (BOD ₅ in five days at 20° C or BOD ₃ in three days at 27° C)	mg/l,max.	60
05	Colour	Wavelength Range 436 nm (Yellow range)	Maximum spectral Adsorption coefficient 7m ⁻¹

		525 nm (Red range)	5m ⁻¹
		620 nm (Blue range)	3m ⁻¹
06	Oils and grease	Mg/1, max.	10
07	Phenolic compounds (as phenolic OH)	Mg/1, max.	1.0
08	Chemical Oxygen Demand (COD)	Mg/1, max.	250
09	Sulphides (as S)	Mg/1, max.	2.0
10	Chromium total (as Cr)	Mg/1, max	2.0
11	Hexavalent Chromium (as Cr ⁺⁶)	Mg/1, max.	0.5
12	Copper, total (as Cu)	Mg/1, max.	3.0
13	Zinc, total (as Zn)	Mg/1, max.	5.0
14	Ammoniacal nitrogen (as N)	Mg/1, max.	60
15	Chloride (as Cl)	Mg/1, max.	70

Note 1: All efforts should be made to remove unpleasant odour as far as practicable.

Note 2: These values are based on dilution of effluents by at least 8 volumes of clean receiving water. If the dilution is below 8 times, the permissible limits are multiplied by the 1/8 of the actual dilution.

LIST VI
TOLERANCE LIMITS FOR EFFLUENTS BEING DISCHARGED FROM
TANNING INDUSTRIES

No.	Parameter	Unit Type of limit	Tolerance limit values	Tolerance limit values
			for effluents Discharged into Inland Surface Waters	for effluents Discharged into Marine Coastal Areas
01	pH value at ambient temperature	°C	5.5 - 9.0	5.5 - 9.0
02	Total suspended solids	mg/1, max.	100	150
03	Biochemical Oxygen Demand (BOD ₅ in five days at 20° C or BOD ₃ in three days at 27° C)	mg/1, max.	60	100

04	Chemical Oxygen Demand (COD)	mg/1, max.	250	300
05	Colour	Wavelength Range	Maximum adsorption coefficient	
		436 nm (Yellow range)	7m ⁻¹	-
		525 nm (Red range)	5m ⁻¹	-
		620 nm (Blue range)	3m ⁻¹	-
06	Alkalinity (as CaCO ₃)	mg/1, max.	750	not applicable
07	Chloride (as Cl)	mg/1, max.	1000	not applicable
08	Hexavalent Chromium (as Cr ⁺⁶)	mg/1, max.	0.5	0.5
09	Chromium total (as Cr)	mg/1, max.	2.0	2.0
10	Oils and grease	mg/1, max.	10.0	20.0
11	Phenolic compounds (as phenolic OH)	mg/1, max.	1.0	5.0
12	Sulphides (as S)	mg/1, max.	2.0	5.0

Note 1: All efforts should be made to remove unpleasant odour as far as practicable.

Note 2: These values are based on dilution of effluents by at least 8 volumes of clean receiving water. If the dilution is below 8 times, the permissible limits are multiplied by the 1/8 of the actual dilution.

LIST VII

TOLERANCE LIMITS FOR EFFLUENTS INTO PUBLIC SEWERS WITH CENTRAL TREATMENT PLANTS

No.	Parameters	Unit, Type of limit	Tolerance limit value
1	Total suspended solids	mg/1, max.	500
2	pH at ambient temperature	-	5.5 - 10.0
3	Temperature	°C, max.	45
4	Biochemical Oxygen Demand (BOD ₅ in five days at 20° C or BOD ₃ in three days at 27° C)	mg/1, max.	350
5	Chemical Oxygen Demand (COD)	mg/1, max.	850

6	Total Kjeldahl nitrogen (as N)	mg/l, max.	500
7	Free ammonia (as N)	mg/l, max.	50
8	Ammoniacal nitrogen (as N)	mg/l, max.	50
9	Cyanide (as CN)	mg/l, max.	2
10	Total residual chlorine	mg/l, max.	3.0
11	Chlorides (as Cl)	mg/l, max.	900
12	Fluorides (as F)	mg/l, max.	20
13	Sulphide (as S)	mg/l, max.	5.0
14	Sulphates (as SO ₄)	mg/l, max.	1000
15	Arsenic (as As)	mg/l, max.	0.2
16	Cadmium (as Cd)	mg/l, max.	1.0
17	Chromium, total (as Cr)	mg/l, max.	2.0
18	Copper (as Cu)	mg/l, max.	3.0
19	Lead (as Pb)	mg/l, max.	1.0
20	Mercury (as Hg)	mg/l, max.	0.005
21	Nickel (as Ni)	mg/l, max.	3.0
22	Selenium (as Se)	mg/l, max.	0.05
23	Zinc (as Zn)	mg/l, max.	5.0
24	Pesticides	mg/l, max.	0.2
25	Detergents/surfactants	mg/l, max.	50
26	Phenolic compound (as C ₆ H ₅ OH)	mg/l, max.	5
27	Oil And Grease	mg/l, max.	30
28	Radio Active Material:	micro curie/ml, max	10⁻⁸
	(e) Alpha emitters	micro curie/ml, max	10⁻⁷
	(f) Beta emitters		

Notes; The following conditions should be met:

- * discharge of high viscous material should be prohibited.
- * Calcium Carbide sludge should not be discharged.
- * substances producing inflammable vapours should be absent

