表 B4-1　　公共用水域への（下水）排水基準

No.	*Determinant*	*Tolerance limit*
1.	Total Suspended Solids, mg/l, max	50
2.	Particle size of total suspended solids	shall pass sieve of aperture size 850 micro m.
3.	pH value at ambient temperature	6.0 to 8.5
4.	Biochemical Oxygen Demand-BOD_5 in 5 days at 20° C, mg/l, max	30
5.	Temperature of discharge	shall not exceed 40° C in any Section of the Stream within 15 m down stream from the effluent outlet.
6.	Oils and greases, mg/l max	10.0
7.	Phenolic Compounds (as phenolic OH)mg/l, max	1.0
8.	Cyanides as (CN) mg/l, max	0.2
9.	Sulfides, mg/l, max	2.0
10.	Flourides, mg/l, max	2.0
11.	Total residual chlorine mg/l, max	1.0
12.	Arsenic, mg/l, max	0.2
13.	Cadmium total, mg/l, max	0.1
14.	Chromium total, mg/l, max	0.1
15.	Copper total, mg/l, max	3.0
16.	Lead, total, mg/l, max	0.1
17.	Mercury total, mg/l, max	0.0005
18.	Nickel total, mg/l, max	3.0
19.	Selenium total, mg/l max	0.05
20.	Zinc total, mg/l, max	5.0
21.	Ammoniacal nitrogen, mg/l, max	50.0
22.	Pesticides	undetectable
23.	Radio active material	
	(a) Alpha emitters micro curie/ml	10^{-7}
	(b) Beta-emitters micro curie/ml	10^{-6}
24.	Chemical Oxygen Demand (COD), mg/l, max	250

Note 1 : All efforts should be made to remove colour and 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 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.

出典：　The Gazette of the Democratic Socialist Republic of Sri Lanka, 1990

表 B4-2　灌漑利用水域における許容工業排水基準

No.	Determinant	Tolerance Limit
1	Total dissolved solid, mg/l, max	2100
2	pH value at ambient temperature	5.5 to 9.0
3	Biochemical Oxygen Demand (BOD_5) in 5 days at 20 °C, mg/l, max	250
4	Oils and grease, mg/l, max.	10.0
5	Chloride (as Cl), mg/l, max.	600
6	Sulfate (as SO_4), mg/l, max.	1000
7	Boron (as B), mg/l, max.	2.0
8	Arsenic (as As), mg/l, max.	0.2
9	Cadmium (as Cd), mg/l, max.	2.0
10	Chromium (as Cr), mg/l, max.	1.0
11	Lead (as Pb), mg/l, max.	1.0
12	Mercury (as Hg), mg/l, max.	0.01
13	Sodium adsorption ratio : (SAR)	10 to 15
14	Residual Sodium Carbonate, mol/l, max.	2.5
15	Radio active material :	
	(a) Alpha emitters, micro curie/ml	10^{-9}
	(b) Beta emitters, micro curie/ml	10^{-8}

出典： The Gazette of the Democratic Socialist Republic of Sri Lanka, 1990

表 B4-3　沿岸地域における工業および生活排水基準

No.	Determinant	Tolerance Limit
1.	Total Suspended Solids, mg/l, max.	
	(a) For process waste waters	150
	(b) For cooling water effluents	Total suspended matter content of influent cooling water plus 10 per cent.
2.	*Particle size of –*	
	(a) Floatable Solids, max	3 mm
	(b) Settlable solids, max	850 micro m.
3.	pH range at ambient temperature	6.0 – 8.5
4.	Biochemical Oxygen Demand (BOD_5) in 5 days at 20°C, mg/l, max.	100
5.	Tempeature, max	45°C at the point of discharge
6.	Oils and grease, mg/l, max.	20
7.	Residual Chlorine, mg/l, max.	1.0
8.	Ammonical Nitrogen mg/l, max.	50.0
9.	Chemical Oxygen Demand (COD) mg/l, max.	250
10.	Phenolic compounds (as phenolic OH) mg/l, max.	5.0
11.	Cyanides (as CN) mg/l, max.	0.2
12.	Sulfides (as 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) Total, mg/l, max.	2.0
16.	Chromium (as Cr) Total, mg/l, max.	1.0
17.	Copper (as Cu) total, mg/l, max.	3.0
18.	Lead (as Pb) total, mg/l, max.	1.0
19.	Mercury (as Hg) total, mg/l, max.	0.01
20.	Nickel (as Ni) total, mg/l, max.	5.0

出典： The Gazette of the Democratic Socialist Republic of Sri Lanka, 1990

表 B4-4　公共用水域へのゴム工場からの許容排水基準

No.	Determinant	Tolerance Limit	
		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/l, max	100	100
3.	Total solids, mg/l, max	1500	1000
4.	Biochemical Oxygen Demand (BOD_5) in 5 days at 20°C, mg/l, max	60	50
5.	Chemical Oxygen Demand (COD) mg/l, max	400	400
6.	Total Nitrogen, mg/l, max	300	60
7.	Ammoniacal Nitrogen, mg/l, max	300	40
8.	Sulfides, mg/l, max	2.0	2.0

* *Type I Factories* – Latex Concentrate

** *Type II Factories* – Standard Lanka Rubber; Crepe Rubber and Ribbed Smoked Sheets

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

Note II : 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 1/8 of the actual dilution.

出典： The Gazette of the Democratic Socialist Republic of Sri Lanka, 1990

表 B4-5　公共用水域への繊維産業からの許容排水基準

No.	Determinant	Tolerance Limit
1.	pH value at ambient temperature	6.5 to 8.5
2.	Temperature, °C, max	40 measured at site of sampling
3.	Total suspended solids, mg/l, max	50
4.	Biochemical Oxygen Demand (BOD_5) in 5 days at 20 °C mg/l, max.	60
5.	Chemical Oxygen Demand (COD) mg/l, max.	250
6.	Oils and grease, mg/l, max.	10.0
7.	Phenolic compounds (as phenolic OH), mg/l, max.	1.0
8.	Sulfides, mg/l, max.	2.0
9.	Chromium total, mg/l, max.	2.0
10.	Hexavalent chromium, mg/l, max.	0.5
11.	Copper, total, mg/l, max.	3.0
12.	Zinc total, mg/l, max.	5.0
13.	Ammoniacal nitrogen, mg/l, max.	60
14.	Chloride (as Cl) mg/l, max.	70

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

Note II : 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 1/8 of the actual dilution.

出典： The Gazette of the Democratic Socialist Republic of Sri Lanka, 1990

表 B4-6　　皮なめし産業に対する許容排水基準

No.	*Determinant*	*Tolerance Limits for Effluent*	
		Discharged into Inland Surface Waters	*Discharged into Marine Coastal Areas*
1.	pH value at ambient temperature	5.5 to 9.0	5.5 to 9.0
2.	Total suspended solids, mg/l max.	100	150
3.	Biochemical Oxygen Demand (BOD_5) in 5 days at 20°C, mg/l, max	60	100
4.	Chemical Oxygen Demand (COD)mg/l, max.	250	300
5.	Alkalinity (as $CaCO_3$) mg/l, max.	750	not applicable
6.	Chloride (as Cl), mg/l, max.	1000	not applicable
7.	Hexavalent chromium, mg/l, max.	0.5	0.5
8.	Chromium total, mg/l, max.	2.0	2.0
9.	Oils and greases, mg/l, max.	10.0	20.0
10.	Phenolic compounds (as Phenolic OH) mg/l, max.	1.0	5.0
11.	Sulfides, mg/l, max.	2.0	5.0

Note I : All efforts should be made to remove colour and unpleasant odour as far as practicable.
Note II : The value 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 1/8 of the actual dilution.

出典： The Gazette of the Democratic Socialist Republic of Sri Lanka, 1990

表 B4-7 (1)　表流水水質基準（案）

Parameter	Unit, Type of limit	Nature conser-vation	Drinking water, only disinfection	Bathing	Fish and aquatic life	Drinking water, convent. treatment	Irrigation and agriculture	Other
Colour	H.u., max.	n	10 av 30 max	-	-	300	-	-
Odour		n	unobj.	unobj.	-	-	-	-
Dissolved oxygen	mg/l, min	n	6	5 4 min daly	6 mean 4	-	3	
BOD (5 days, 20°C)	mg/l, max	n	2	-	-	3	-	4
pH		n	6.5-8.5	6-8.5	6-8.5	5.0-8.5	-	5.0-8.5
Nitrates (NO_3-N)	mg/l, max.	n	-	-	-	-	-	5
Total ammonia (NH_3-N)	mg/l, max.							
- pH < 7.5		n	-	-	10.3	-	-	10.3
- pH = 8.0		-	-	4.9	-	-	4.9	-
- pH = 8.5		-	-	1.8	-	-	1.8	-
Chlorides (Cl)	mg/l, max	n	200 des. 1200 max.	-	-	200 des. 1200 max.	-	-
Cyanides (CN)	mg/l, max.	n	-	-	0.005	-	-	0.005
Fluorides (F)	mg/l, max.	n	1.5	-	-	1.5	-	-
Sulphates (SO_4)	mg/l, max.	n	400	-	-	400	-	-
Total coliform	MPN/100 ml, (P = 80%)	n	50	5000	20,000	5000	-	-
Total arsenic (As)	μg/l, max	n	50	-	50	50	-	50
Total cadmium (Cd)	μg/l, max		5	-	H Cd < 60 0.2 60-120 0.8 120-180 1.3 > 180 1.8	5	-	5

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出典： Workshop on Environmentally Sustainable Industrial Development(Standards, Guidelines and Implementation), CENTRAL ENVIRONMENTAL AUTHORITY 1992

表 B4-7 (2)　表流水水質基準（案）

Parameter	Unit, Type of limit	Nature conser-vation	Drinking water, only disinfection	Bathing	Fish and aquatic life	Drinking water, convent. treatment	Irrigation and agriculture	Other
Total chromium (Cr)	µg/l, max.	n	50	-	2	50	-	50
Total copper (Cu)	µg/l, max.	n	-	-	H Cu < 60 2 60-120 2 120-180 3 > 180 4	-	-	100
Iron (Fe)	µg/l, max.	n	-	-	300	2	-	-
Lead (Pb)	µg/l, max.	n	50	-	H Pb < 60 1 60-120 2 120-180 4 > 180 7	50	-	50
Manganese (Mn)	µg/l, max.	n	-	-	-	-	-	1000
Mercury (Hg)	µg/l, max.	n	1	-	0.1	1	-	2
Nickel (Ni)	µg/l, max.	n	-	-	H Ni < 60 25 60-120 65 120-180 110 > 180 150	-	-	100
Selenium (Se)	µg/l, max.	n	10	-	1	10	-	-
Zinc (Zn)	µg/l, max.	n	-	-	30	-	-	1000

Continued on next page

出典： Workshop on Environmentally Sustainable Industrial Development(Standards, Guidelines and Implementation), CENTRAL ENVIRONMENTAL AUTHORITY 1992

表 B4-7 (3)　表流水水質基準（案）

Parameter	Unit, Type of limit	Nature conser-vation	Drinking water, only disinfection	Bathing	Fish and aquatic life	Drinking water, conventional treatment	Irrigation and agriculture	Other
Gross alpha radioact.	pC/l, max.	n	3	3	-	3	-	3
Gross betha radioact.	pC/l, max.	n	30	30	-	30	-	30
Phenolic comp. (C_6H_5OH)	µg/l, max.	n	2	5	1	5	-	5
Anionic deterg. as MBAS	µg/l, max.	n	200 des. 1000 max.	1000		200 des. 1000 max.	-	-
Total pesticides	µg/l, max.	n	-	-	-	-	-	50
Aldrin	µg/l, max.	n	-	-	-	-	-	0.3
DDT	µg/l, max.	n	-	-	0.001	-	-	1
Dieldrin	µg/l, max.	n	-	-	0.004	-	-	0.1
Endrin	µg/l, max.	n	-	-	0.0023	-	-	-
Heptachlor & heptachlorepoxyde	µg/l, max.	n	-	-	0.01	-	-	0.2
α-Hexachlorocyclohexane	µg/l, max.	n	-	-	-	-	0.02	-
Other organic micro-pollutants		n	-	-	see table S.2	-	-	-
Conductivity	dS/m, max.	n	-	-	-	-	0.7	-
Boron	mg/l, max	n	-	-	-	-	0.5	-

Abbreviations:

H　= Hardness ($CaCO_3$), mg/l

des.　= desirable

max.　= maximum

P = 80%　= 80% of the samples give a value that is equal to or less than the indicated limit

出典： Workshop on Environmentally Sustainable Industrial Development(Standards, Guidelines and Implementation), CENTRAL ENVIRONMENTAL AUTHORITY 1992

表 B4-8　　漁業資源保全のための表流水の最大許容有機汚染物質基準（案）

Parameter	Unit	Limit[1]
Benzene[2]	mg/l	0.3
Chlordane	ng/l	6
Chlorinated benzenes[2]		
Monochlorobenzene	µg/l	15
Dichlorobenzene 1,2- and 1,3-	µg/l	2.5
Dichlorobenzene 1,4-	µg/l	4.0
Trichlorobenzene 1,2,3-	µg/l	0.9
Trichlorobenzene 1,2,4-	µg/l	0.5
Trichlorobenzene 1,3,5-	µg/l	0.65
Tetrachlorobenzene 1,2,3,4-	µg/l	0.10
Tetrachlorobenzene 1,2,3,5-	µg/l	0.10
Tetrachlorobenzene 1,2,4,5-	µg/l	0.15
Pentachlorobenzene	µg/l	0.030
Hexachlorobenzene	µg/l	0.0065
Chlorinated ethylenes[2]		
Tetrachloroethylene	µg/l	260
Chlorinated phenols		
Monochlorophenols	µg/l	7
Dichlorophenols	µg/l	0.2
Trichlorophenols	µg/l	18
Tetrachlorophenols	µg/l	1
Pentachlorophenol	µg/l	0.5
DDT	ng/l	1
Endosulfan	µg/l	0.02
Endrin	ng/l	2.3
Ethylbenzene[2]	mg/l	0.7
Heptachlor + Heptachlorepoxide	µg/l	0.01
Hexachlorobutadiene	µg/l	0.1
Hexachlorocyclohexane isomers	µg/l	0.01
Phenols (total)	µg/l	1
Phenoxy herbicides (2,4-D)	µg/l	4.0
Phthalate esters:		
DBP	µg/l	4
DEHP	µg/l	0.6
Other phthalate esters	µg/l	0.2
Polychlorinated biphenyls (total)	ng/l	1
Toluene	mg/l	0.3
Toxaphene	ng/l	8

[1] Total concentration in unfiltered sample
[2] Tentative standard

出典：Workshop on Environmentally Sustainable Industrial Development(Standards, Guidelines and Implementation), CENTRAL ENVIRONMENTAL AUTHORITY 1992

表 B4-9　　スリランカにおける沿岸海域の利用目的別水質基準（案）

Parameter	Unit	Value for different use classes			
		1	2	3	4
		Nature conser-vation	Fishery of shell fish	Fishery of fin fish	Non consump-tion use
Floatable solids		N	N	N	NO
Floatable oil/grease		N	N	N	NO
Suspended solids		N	N	N	NO
Transparency[1]		N	<10%	<10%	<50%
Color		N	NV	NV	NO
Odor		N	N	N	NO
Temperature	°C	<32	<32	<32	<32
Coliform (total)	MPN/ml	N	N	<10	<20
Coliform (fecal)	MPN/ml	N	N	<3	<6
pH		N	7.0-8.5	7.0-8.5	6.5-9.0
Salinity[1]	g/l	N	29-35	<10%	<20%
Dissolved oxygen	satur.	N	>80%	>70%	>60%
BOD	mg O_2/ml	N	<5	<5	<10
Phosphate (total)	mg P/ml	N	NA	NA	NA
Nitrogen (total)	mg N/ml	N	NA	NA	NA
Ammonia (free)	mg N/ml	N	<0.4	<0.4	<1.2
Cyanide	μg/l	N	<10	<10	<20
Sulfide	μg/l	N	<5	<5	<10
Mercury	μg/l	N	<0.1	<0.1	<0.2
Cadmium	μg/l	N	<5	<5	<10
Chrome (hex.)	μg/l	N	<25	<25	<50
Lead	μg/l	N	<25	<25	<50
Copper	μg/l	N	<25	<25	<50
Manganese	μg/l	N	<100	<100	<200
Zinc	μg/l	N	<50	<50	<100
Iron	μg/l	N	<300	<300	<600
Arsenic	μg/l	N	<50	<50	<100
Fluoride	mg/l	N	<1.5	<1.5	<3
Phenols	μg/l	N	<30	<30	<60
PCB (total)	μg/l	N	<0.03	<0.03	<0.06
Chlor. pestic. (total)	μg/l	N	<0.05	<0.05	<0.1

[1] % = change from natural condition
N Natural condition
NO Not objectionable
NV Not visible
NA Below level causing algae bloom (to be established)
< smaller than
> higher than

出典：Workshop on Environmentally Sustainable Industrial Development(Standards, Guidelines and Implementation), CENTRAL ENVIRONMENTAL AUTHORITY 1992

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