ANNEX II

Proposed ambient water quality standards for inland waters

	Parameter	Unit, Type of limit	CLASS 1 Waters		CLASS 1 Waters (Sensitive Waters)			Irrigation and agriculture	Class 111 waters (general waters) Minimum Quality (Other Uses)
			Nature Conservation	Drinking Water with Simple Treatment	Bathing	Fish and aquatic Life	Drinking water, with conventional Treatment		
			1	2	3	4	5	6	7
	General								
1	Colour (after simple filtration)	pt mg/1, max.	n	20	-	-	100	-	-
2	Total dissolved solids (TDS)	Mg/1, max.	n	-	-	-	-	500	-
3	Conductivity	dS/m, max.	n	-	-	-	-	0.7	-
4	Odur	-	n	unobj	unobj	-	unobj	-	-
5	Taste	-	n	unobj	-	-	unobj	-	-
6	Turbidity	NTU, max.	n	5	-	-	-	-	-
7	Sodium absorption ratio (SAR)	-	n	-	-	-	-	15-Jun	-
8	Residual sodium Carbonate (RSC)	Meq./1, max.	n	-	-	-	-	1.25	-

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9	Total hardness	As $CaCo_3$ mg/1, max.	n	250 des. 600 max	-	-	-	-	-
10	pH	-	n	6.0 - 8.5	6.0 - 9.0	6.0 - 8.5	6.0 - 9.0	6.0 - 8.5	5.5 - 9.0
11	Dissolved Oxygen at 25°C	Mg/1, max.	n	6	5	3	4	3	3
12	Bod (5 days at 25°C or 3 days at 20°C	Mg/1, max.	n	3	4	4	5	5	5
13	COD	Mg/1, max.	n	15	20	15	30	-	40
	Nutrients								
14	Nitrates (No_3 - N)	mg/1, max.	1	5	5	5	5	5	5
15	Total ammonia (NH_3-N)	mg/1, max.							
	- pH < 7.5		-	-	-	0.94	-	-	9.1
	- pH < 8.0		-	-	-	0.59	-	-	4.9
	- pH < 8.5		-	-	-	0.22	-	-	1.6
16	Total phosphate (PO_4-P)	mg/1, max.	n	0.7	0.7	0.4	0.7	0.7	0.7
	Other Substances								
17	Chlorides (Cl)	mg/1, max.	n	200	-	-	200	100	-
18	Cyanides (CN)	mg/1, max.	n	0.005	0.005	0.005	0.005	0.005	0.005
19	Fluorides (F)	mg/1, max.	n	1.5	-	-	1.5	-	-
20	Soleplates (SO_4)	mg/1, max.	n	50	-	-	250	1000	--
	Metals								

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21	Total Cadmium (Cd)	µg/1, max.	n	5	-	**H Cd** <60 0.2 60-120 0.8 120-180 1.3 >180 1.8	5	-	5
22	Total Arsenic (As)	µg/1, max.	n	50	-	50	50	-	50
23	Total Chromium (Cr)	µg/1, max.	n	50	-	2	50	-	50
24	Total Copper (Cu)	mg/1, max.	n	-	-	**H Cu** <60 2 60-120 2 120-180 3 >180 4	-	-	100
25	Iron (Fe)	µg/1, max.	n	300 des. 100 max.	-	300	200	-	-
26	Lead (Pb)	µg/1, max.	n	50	- - -	**H Pb** <60 1 60-120 2 120-180 4 >180 7	50	-	50
27	Manganese (Mn)	µg/1, max.	n	1000	1000	1000	1000	1000	1000
28	Mercury (Hg)	µg/1, max.	n	1	1	0.1	1	1	2
29	Nickel (Ni)	µg/1, max.	n	100	100	**H Cu** <60 25 60-120 65 120-180 110 >180	100	100	100

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					150			
30	Selenium (Se)	µg/1, max.	n	10	10	1	10	-	-
31	Zinc (Zn)	µg/1, max.	n	1000	1000	30	1000	1000	-
32	Boron (B)	µg/1, max.	n	-	-	-	-	500	-
33	Total Arsenic (As)	µg/1, max.	n	10	50	50	10	50	-
34	Aluminum (Al)	µg/1, max.	n	200	-	-	200	5	-
	Organic Micro Pollutants								
35	Phenol Index	µg/1, max.	n	2	5	1	5	5	5
36	Oil and Grease	µg/1, max.	n	100	200	10	100	-	300
37	Anionic Surfactants (detergent) as MBAS	µg/1, max.	n	200	300	1000	200	1000	1000
38	Total Pesticides	µg/1, max.	n	10	30	30	30	50	50
39	Total Coliform	MPN/100ml, (*P=95%)	n	5000	1000	20,000	5000	1000	-
40	Faecal Coliform	MPN/100ml, (*P=95%)	n	250 des 600 max.	50	-	-	-	-

Abbreviations:

n - Nature or baseline values

H - hardness in terms of $CaCo_3$ in mg/1

des. - Desirable highest level

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max.	-	Maximum permissible substances
MBAS	-	Methylene blue active substances
*P=95%	-	95% of the samples give a value that is equal to or less than the indicated limit
1	-	Mean - during longer period
2	-	Min. dly - average of daily waters
3	-	Prevention of eutrophication, excessive weed growth, etc., may require lower, site specific, for stagnant waters