

डी० थारा, आई.ए.एस.

अपर सचिव

D. Thara, I.A.S.

Additional Secretary

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आज़ादी का
अमृत महोत्सव



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भारत 2023 INDIA

भारत सरकार
आवासन और शहरी कार्य मंत्रालय

GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS



D.O Q-12011/9/2023-CPHEEO,

Dated 18.12.2023

Dear

Sir / Madam,

As you are aware, the Hon'ble NGT has given direction vide its order dated 30.04.2019 mandating States/ULBs to adhere to the following effluent standards from new & existing Sewage Treatment Plants (STPs) for all cities & towns in the country.

Industry	Parameters	Standards (Applicable to all mode of disposal)
Sewage Treatment Plants (STP)	pH	5.5-9.0
	Bio-Chemical Oxygen Demand (BOD), mg/l	10
	Total Suspended Solids (TSS), mg/l	20
	Chemical Oxygen Demand (COD), mg/l	50
	Nitrogen-Total, mg/l	10
	Phosphorus-Total (For Discharge into Ponds, Lakes), mg/l	1.0
	Fecal Coliform (FC) (Most Probable Number per 100 milliliter, MPN/100 ml)	Desirable- 100 Permissible-230

2. Keeping in view of the above direction of Hon'ble NGT, the existing norms for recycle and reuse of wastewater for specific uses given at Table 7.19 of the Manual on Sewerage and Sewage Treatment Systems, 2013, published by the Ministry, has been reviewed by the Expert Committee constituted by the Ministry. The norms mentioned in the Manual do not provide the norms for recreational use, an aspect that is crucial in comprehensive recycling & reuse of treated sewage.

3. The norms have been reviewed and amended aligning with the various International standards and norms as per BIS 17663 (2021) as the amendment is a proactive step toward providing recycling and reuse of wastewater for non-potable applications such as toilet flushing, fire protection, vehicle exterior washing, recreational use (bathing etc.), non-contact impoundments (tanks, lakes etc.), horticulture, golf course, non-edible crops, crops which are eaten raw and cooked. A copy of the amended norms provided in the Table 7.19 of the Manual on Sewerage and Sewage Treatment Systems, 2013 is enclosed at **Annexure-I**.

I request you to direct the concerned Departments/ PHED/ Jal Nigams/ Water Boards and Agriculture Department etc. to adopt the amended norms for recycling and reuse of wastewater for specific activities in place of Table 7.19 of the Manual on Sewerage and Sewage Treatment Systems, 2013 by all the States/UTs, Parastatal Agencies, and other stakeholders.

With regards,

Yours sincerely,

(D. Thara)

To,

1. Principal Secretary/Secretary (UD/PHED), for kind reference and necessary action.
2. Principal Secretary, Agriculture Department, for kind reference and necessary action.
3. State Mission Director (AMRUT) of all states, for kind reference and necessary action.

Copy to:

1. National Mission Director, National Mission for Clean Ganga(NMCG), for kind reference and necessary action.
2. Chairman, Central Pollution Control Board (CPCB), with a request to forward the modified norms for recycle and reuse to all State Pollution Control Board (SPCB).
3. Ms. Roopa Mishra, JS (SBM), MoHUA with a request to forward the modified norms for recycle and reuse to all the State Mission Director (SBM).
4. Shri Franklin L. Khobung Joint Secretary (NRM/RFS), Department of Agriculture Cooperation and Farmers Welfare with a request to forward the modified norms for recycle and reuse to all the states.
4. Joint Secretary, Ministry of Environment, Forest and Climate Change (MoEFCC), for kind reference and necessary action.
5. Joint Secretary, Ministry of Jal Shakti, with a request to forward the modified norms for recycle and reuse to State Water Resource Department.
6. Joint Secretary, Department of Drinking Water and Sanitation (DDWS), with a request to forward the modified norms for recycle and reuse to State PHEDs (Rural).
7. PPS to Secretary,HUA for kind information to Secretary, HUA.

Table 7.19 Recommended norms of treated sewage quality for specified activities at point of use (Modified)

S. No.	Parameter	Toilet Flushing	Fire protection	Vehicle Exterior washing	Recreational use (bathing etc.)	Non-contact impoundments (tanks, lakes etc.)	Landscaping, Horticulture & Agriculture		
							Horticulture, Golf course	Non edible crops	Crops which are eaten Raw Cooked
1	Turbidity (NTU)	<2	<2	<2	<2	<2	AA	AA	AA
2	SS	AA	AA	AA	AA	AA	AA	AA	AA
3	TDS				2100				
4	pH				6.5 to 8.5				
5	Temperature				Ambient				
6	Oil & Grease	10	nil	nil	nil	nil	10	10	nil
7	Total Nitrogen as TN	10	10	10	10	10	AA	AA	AA
8	BOD	≤6	10	≤6	≤6*	10	≤6-10 (≤6 preferred)		
9	COD	AA	AA	AA	AA	AA	AA	AA	AA
10	Total Phosphorous as TP	1	1	1	1	1	AA	AA	AA
11	Minimum Residual Chlorine	1	1	1	≤0.5	0.5	nil	nil	nil
12	Faecal Coliform in 100 ml	nil	nil	nil	≤50	100	nil	100	≤50
13	Helminthic Eggs/ litre	AA	AA	AA	AA	AA	AA	<1	<1
14	Colour (Colour or Hazen units)				Colourless			AA	Colourless
15	Odour				Aseptic which means not specific and no foul odour				

All values are in mg/l except for Turbidity, pH, Temperature, Faecal Coliform, Helminthic Eggs, Colour and Odour.

AA- as Arising when other parameters are satisfied.

*CPCB prescribes BOD less than 3 mg/l in water body for recreational purpose. Adequate storage shall be maintained in the water body for dilution to maintain 3 mg/l.