Action Plan: No. 5

# **Draft Action Plan**

# for Rejuvenation of

# River Kalyani

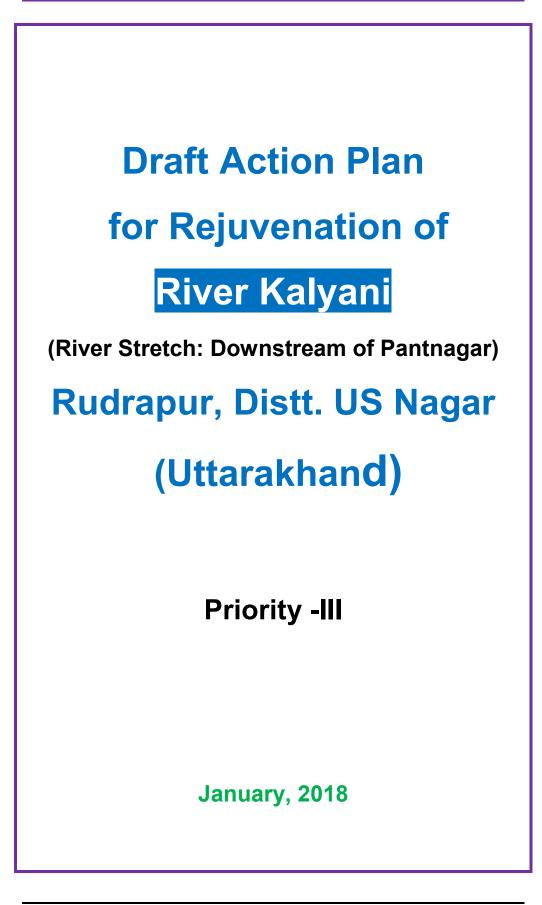
(River Stretch: Downstream of Pantnagar)

# Rudrapur, Distt. US Nagar

# (Uttarakhand)

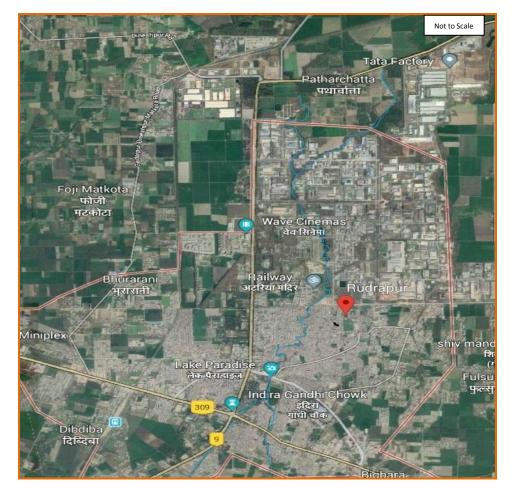
**Priority** -III

January, 2019



### 1. INTRODUCTION

River Kalyani originating from the Tanda forest area of district Nainital and passing through agriculture fields of Pantnagar areas and followed by Integrated Industrial Estate (IIE), Pantnagar. River Kalyani receives wastewater from Common Effluent Treatment Plant (CETP) having installed capacity of 4. MLD, however, presently CETP receiving about 1.5 MLD to 1.8 MLD wastewater from 236 industrial Unit. About 286 industrial units are not connected with CETP as conveyer system is not available for those industries; however, individual industrial units have made their effluent treatment plant (ETP) as per requirement. River Kalyani receives treated wastewater from CETP through its storage lagoon and other industrial units where conveyer system is not available. Apart from these sources, it also receives municipal drains from residential areas of Rudrapur city located adjacent to the industrial Estates.



Google image of IIE, Pantanagar and Rudrapur town along with river Kalyani. (Not to scale)

#### 2. WATER QUALITYGOALS:

It is an important aspect for maintain wholesomeness of river Kalyani in context of meeting water quality criteria for bathing. The natural flow of river Kalyani is very low. As it passes through IIE Pantnagar, it receives industrial wastewater and CETP outlet discharge as well as wastewater from residential areas. In order to meet the water quality criteria for bathing, it is imperative to maintain the wastewater quality characteristic within prescribed limit all the time by industrial Units and CETP all the time in relation to prescribed standards stipulated under Schedule – VI of the Environment (Protection) Rules, 1986.

Water quality characteristics of river Kalyani during the year 2018 is as given below:

Month	рН	BOD (mg/L)	COD (mg/L)	DO (mg/L)
Jan-18	7.2	3.2	18	8.2
Feb-18	7.2	2.2	16	8
Mar-18	River Dry			
Apr-18	River Dry			
May-18	River Dry			
Jun-18	7.2	3.2	8	7.2
Jul-18	7.6	2.6	16	7.2
Aug-18	7.6	1.8	18	7.8
Sep-18	7.5	4	14	7.2
Oct-18	7.3	8	28	6.2
Nov-18	7.2	4.2	18	6.8
Dec-18	7.4	3.2	10	6.4
Average	7.35	3.6	16.22	7.22
(Range)	(7.2-7.6)	(1.8-8)	(8-28)	(6.2-8.2)

#### A. River Kalyani at upstream of Pantnagar (US Nagar).

#### B. River Kalyani at downstream of Pantnagar (US Nagar).

Month	рН	BOD (mg/L)	COD (mg/L)	DO (mg/L)
Jan-18	7.9	8.2	38	5.20
Feb-18	7.4	6	36	5.20
Mar-18	6.98	20	84	1.80
Apr-18	6.86	80	304	0.60
May-18	7.1	52	200	1.20
Jun-18	6.4	48	190	1.20
Jul-18	7.3	44	152	1.80
Aug-18	7.8	30	118	3.20
Sep-18	6.9	34	138	2.80
Oct-18	7.3	36	130	2.00
Nov-18	7.6	26	88	2.60
Dec-18	6.8	30	80	2.80
Average	7.19	34.51	129.83	2.53
(Range)	(6.4-7.9)	(6-80)	(36-304)	(0.60-5.20)

#### Basis of Proposed Action Plan for rejuvenation of river Kalyani:

River Kalyani is a spring fed river and river water quality before entering into IIE, Pantanagar, as such not receives any direct source of pollution. Deterioration in water quality is reported mainly because of industrial wastewater and CETP outlet, Therefore, efficient operation of CETP as well as industries which are not connected with CETP, are matter of grave concerned; and therefore action plan for prevention and control of pollution of river Kalyani has been prepared based on the following components:

## 3. COMPONENTS OF ACTION PLAN:

The proposed action plan for rejuvenation of river Kalyani consisting following components:

## 3.1 Source Control:

Source control includes industrial pollution control and treatment and disposal of domestic sewage as detailed below:

#### (a) Industrial Pollution control:

- i. Inventorisation of industries: List of industries located in IIE, Pantnagar is given as **Annexure-1**.
- ii. Categories of industry and effluent quality: Industries which are connected with CETP, shall have to provide primary treatment system in order to meet prescribed CETP inlet standards as prescribed by UEPPCB (Annexure-2), however, industries which are not connected with CETP shall have to operate ETP appropriately to meet outlet standards as prescribed under the Environment (Protection) Rules, 1986 as amended.
- iii. Treatment of effluents, compliance with standards and mode of disposal of effluents.
- iv. Regulatory regime: Compliance of effluent outlet standards as prescribed under the Environment (Protection) Rules, 1986 as amended.
- (b) **Common Effluent Treatment Plant (CETP):** As CETP receives wastewater from about 253 industrial units, therefore

appropriate operation of CETP is to be ensured to meet CETP outlet standards prescribed under the E(P) Rules, 1986 as amended (**Annexure-3**).

- (c) Channelization, treatment, utilization and disposal of treated domestic sewage/Municipal drain.
  - i. Identification of drains their discharge in the catchment of river Kalyani.
  - ii. Estimation of quantity of sewage generated and requirement of treatment capacity.
  - iii. Storm water drains now carrying sewage and sullage joining river Kalyani and interception and diversion of sewage to STP.
  - iv. Treatment and disposal of septage and controlling open defecation.

#### (d) Solid Waste Management:

- i. Collection, segregation, transportation, disposal and treatment of municipal solid wastes generated from town in accordance of provisions of the Solid Waste Management Rules, 2016.
- ii. Restriction illegal disposal of solid waste along the river bank and flood plain zones.
- iii. Burning of solid waste should be strictly prohibited.
- iv. Construction and demolition wastes should be disposed in designated areas and no case it should be disposed in to river beds or flood plain zone.

# 3.2 River catchment/Basin management - Controlled ground water extraction and periodic quality assessment:

- i. Periodic assessment of groundwater resources and regulation and regulation of ground water extraction by industries particularly in over exploited and critical zones/blocks.
- ii. Ground water re-charging/rain water harvesting.
- iii. Periodic ground water quality assessment and remedial actions in case of contaminated ground water tube wells/bore wells or hand pumps.
- iv. Assessment of the need for regulating use of ground water for Irrigation purposes.

### 3.3 Flood Plain Zone.

- i. Regulating activities in flood plain zone.
- ii. Management of Municipal, Plastic, Hazardous, Bio-medical and Electrical and Electronic wastes.
- iii. Greenery development Plantation plan.

### 3.4 Ecological/Environmental Flow (E-Flow)

- i. Issues relating to E-Flow.
- ii. Irrigation practices.

## 4. RIVER KALYANI REJUVENATION PLAN:

Following are the action plan for rejuvenation of river Kalyani as detailed below:

#### **1.1 Industrial Pollution Control:**

IIE, Pantnagar consisting of heterogeneous nature of industries, however, automobile and their ancillaries are prominent. Following are the action points for sector-wise pollution control:-

#### (i) Automobile Industries:

- (a) Wastewater containing metals shall be treated and disposed in order to meet prescribed standards.
- (b) Reuse of treated effluent shall be encouraged.
- (c) Metallic sludge, paint sludge etc. shall be collected, stored and disposed as per HW, Rules, 2016.

#### (ii) Electroplating Industries:

- (a) Electroplating industries which are the main source of metallic contamination of surface and ground water should be insisted for 'ZLD' system. Cyanide based electroplating process shall not be permitted.
- (b) All the electroplating units or having electroplating process or industrial processes which are likely to discharge effluents containing heavy metal or pollutants that may damage

environment, in such cases, UEPPCB shall make necessary amendments to the CCA (Consolidated Consent & Authorization) granted under the Water (Prevention and Control of Pollution) Act, 1974; the Air (Prevention and Control of Pollution) Act, 1981 and the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016, for incorporation of the effluent discharge standards for all the parameters as prescribed under Environment (Protection) Act, 1986.

(c) All the industrial units should have consents under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 as well as Authorisation under the Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016 as amended and Consents or Authorization as applicable should be granted or renewed only after verification or ensuring adequate systems for disposal of treated effluents or verification of compliances to the granted Consents/Authorization strictly.

## (iii) Specific Action Points:

- (a) UEPPCB with the support of District Industry Centre (DIC) shall carryout inventory of industries within two months time and all the industries which are presently in operation without Consent under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 as the case may be should be directed by UEPPCB to obtain consent within three months and failing which action should be taken by UEPPCB for closure of all such industrial units.
- (b) All the hazardous waste generating industries or the industries covered under Schedule-I of the Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2016 as amended, should be directed to obtain authorization within a month from UEPPCB and failing which action should be taken by UEPPCB for closure of all such industrial units.
- (c) All the GPIs category industries have provided OCEMS at the outlet of ETPs. Industries will be directed to take measures to

transfer real time data with auto validation facilities to the UEPPCB and CPCB with immediate effect.

- (d) No industry should operate or continue manufacturing process unless they possess valid permission for ground water extraction from Central Ground Water Authority (CGWA). All such industries shall obtain groundwater extraction permission from the Central Groundwater Board (CGWA) within three month time period.
- (e) Small scale/tiny and service providing units located in urban or semi-urban limits like Dairies, Auto Service Stations etc., should not be allowed to dispose waste water effluents or sledges into drains, thereby ensuring not causing damages to drains or sewers. Such units should have minimum provision of Oil & Grease traps.
- (f) Drains carrying industrial wastewater shall be monitored regularly by the UEPPCB.
- (g) Burning of any kind of waste including industrial solid waste and agriculture residue should be completely prohibited.

## 1.2 Treatment of Sewage:

- (a) About 26 MLD sewage is generated from the entire city. It is informed that due to high water table (2 to 5 meter), sewage treatment and networking system have not found feasible. Therefore, no STP is proposed for the city.
- (b) 125 KLD capacity Septage Treatment Plant is proposed for Rudrapur city. Proposal of about Rs. 6.09 Cr. is under tendering process.
- (c) All municipal drains leading to river Kalyani should be identified and their interception and diversion along with treatment plan shall be prepared.
- (d) Drains carrying industrial wastewater shall not be diverted to CETP.
- (e) Septage management protocol shall be strictly followed.

#### Sewage Treatment Plan:

(a) Uttarakhand Jal Nigam would undertake measurement of flow of the drain(s) and formulate detailed project report (DPR) for each drain for treatment.

- (b) The flow in each drain should exclude monsoon flow. Further, any drain if receiving fresh water from any escape channel etc, should be examined for its diversion rather than mixing with sewage.
- (c) DPRs should be submitted to the River Rejuvenation Committee (RRC) for consideration as a part of Ganga/Yamuna basin management plan.
- (d) Sewage treatment plan should also consider treatment and disposal of sewage from villages/gram panchayats/isolated settlements including discharge form toilets constructed under Swachh Bharat Abhiyan.
- (e) Hotels/Restaurants particularly located on road-side should not dispose untreated sewage and solid waste into nearby pubic drain or rivers, such establishments should be properly regulated and levied with fines as directed by Hon'ble NGT in Ganga matter in case of any violation.

#### 4.3 Solid Waste Treatment and Disposal:

- (a) About 46.35 MTPD solid waste is generated from the Rudrapur city. Action plan for solid waste processing and disposal has been prepared by the Directorate of Urban Development based on cluster approach.
- (b) Door to Door collection of solid waste shall be encouraged and only segregated waste shall be accepted.
- (c) Biodegradable wastes shall be used for composting while recyclable waste shall be sent to registered recyclers.
- (d) Action Plan for Solid waste Management for Rudrapur town as prepared by the Urban Development Directorate, Uttarakhand shall be implemented.
- (e) No case Construction and Demolition waste shall be disposed in river bed or flood plain zone. Nagar Nigam Rudrapur shall identify the site for such wastes.

## 1.3 Ground Water Quality:

(a) So far contamination of groundwater is not reported in the area, however groundwater quality monitoring shall be carried out at least twice in the year (winter: December-January and summer: May-June) at three locations to ascertain level of pollutants in groundwater.

- (b) CGWA would be requested to identify over exploited and critical blocks in the area with respect to the ground water extraction and industries be directed to comply with CGWA conditions.
- (c) UPPCB should be vigilant and conduct surprise inspection of the industry to rule out any forceful injection of industrial effluents into groundwater resources or disposal of effluent in rain water recharge pits.
- (d) No industrial unit should be establishment or allowed to continue its operation unless they obtain permission from CGWA for ground water extraction within three month.
- (e) Rain water harvesting of industrial, commercial and other institutions may be insisted upon by CGWA and groundwater recharging with only clean water be encouraged by CGWA.

## 4.5 Flood Plan Zone (FPZ):

The Uttarakhand Irrigation Department shall identity/demarcates Flood Plain Zone and regulate the activities. Such regulations would also cover:

- (a) Plantation in Flood Plain Zone (FPZ) By State Forest Department.
- (b) Checking encroachments By District/Local Administration.
- (c) Prohibition of disposal of municipal and bio-medical waste particularly in drains By Local administration.
- (d) State Government may notify Flood Palin Zones within six months.

#### 4.6 Environmental Flow (E-Flow):

(a) River Kalyani carrying very thin and lean flow of original water.

- (b) Fresh water flowing through escape channels/small barrages should be checked. Good quality of water should not be used for dilution of pollution unless; required degree of treatment is achieved for municipal sewage and industrial effluents.
- (c) To conserve water and good irrigation practices to be adopted by the farmers for which mass awareness programmes through media be provided in vernacular languages to the farmers by the Uttarakhand State Irrigation and Agriculture Departments.

## 4.7 Monitoring of Action Plan:

The proposed Action Plan will be monitored by the River Rejuvenation Committee (RRC) constituted by Government of Uttarakhand vide Office order dated 05.12.2018, under the overall supervision and co-ordination of Principal Secretary, Environment, Govt. of Uttarakhand.

## 5. ACTION PLAN:

Short Term and Long Term Action and the Identified Authorities for initiating actions and the time limits for ensuring compliance:

S.N.	Action plan for rejuvenation of river Kalyani	Organisation/ Agency Responsible for Execution of the Action Plan	Time Target
1.	Industrial Pollution Control		
	a) Action plans suggested	UEPPCB	Within
	under section - of the		Three
	Action Plan.		months.
	b) Inventorisation of the	DIC, US Nagar &	Within
	industries in the catchment	UEPPCB	two
	area of River Kalyani		months.
	covering assessment on		
	aspects relating to Status		
	of Consents under Water		

	& Air Acts and		
	Authorisation, Effluent		
	Generation, ETP		
	capacities and final mode		
	of effluent discharges.		
C)	Actions against the	UEPPCB	Within
	Identified industries in		three
	operation without		months.
	Consents under Water &		
	Air Acts/Authorisation		
	under the H & OW (M &		
	TM) Rules, 2016 as		
	amended.		
d)	Action against the	UEPPCB	Within
- ,	industries not installed		three
	ETPs or ETPs exist but		months.
	not operating or ETP outlet		
	or treated effluent is not		
	complying with effluent		
	discharge norms.		
e)	Action against the GPIs	UEPPCB	Within a
	which have not providing	OEI I OD	month.
	continuous real-time		
	effluent quality data to		
	UEPPCB and CPCB.		
f)	Routine /surprise	Special	Regularly
1)	inspection GPIs and Red	Environmental	rtegulariy
	category of industries for	Surveillance	
	ensuring compliance of	Task Force /	
	effluent discharge	UEPPCB	
	standards as prescribed	ULI I UD	
	•		
	under E(P) Rules, 1986, as amended.		
g)	-	UEPPCB	Within
	service providing units		three
	located in urban or semi-		month.
	urban limits like Dairies,		
	Auto Service Stations etc.,		
	have minimum provision of		
	Oil & Grease traps.		
h)	Monitoring of drains	UEPPCB	Within a
	carrying industrial		month.

	wastewater.		
	<ul> <li>Prohibition of Burning of any kind of waste including agro-residue.</li> </ul>	Nagar Nigam, Rudrapur / District Administration	Within a month.
	<ul> <li>j) Operation of CETP in order to meet the prescribed outlet effluent discharge standards and performance monitoring.</li> </ul>	SIIDCUL / UEPPCB	Within a month
	<ul> <li>k) Laying of conveyer network for areas of IIE where conveyer network in not available</li> </ul>	SIIDCUL	Within six months.
	<ol> <li>Installation of Online Continuous Effluent Monitoring System at CETP outlet and 24x7 data transfer connectivity to CPCB and UEPPCB.</li> </ol>	SIIDCUL	Within15 days.
2.	Sewage Treatment & Disposa		-
	<ul> <li>a) Estimation of total sewage generation, existing treatment facilities, quantum of disposal of sewage presently through drains and / the gaps in sewage treatment capacity.</li> </ul>	Uttarakhand Jal Nigam / Nagar Nigam, Rudrapur	Within two months.
	<ul> <li>b) To undertake measurement of flow of all the drains presently contributing pollution load in river Kalyani and formulate Detailed Project Report (DPR) for each drain and submit DPR to RRC. Plan for utilization of treated water (at least 75%) should be a part of DPR. Proposal should</li> </ul>	Uttarakhand Jal Nigam / Nagar Nigam, Rudrapur	Within two months.

include installation of OCEMS & PTZ camera at STP Outlet.Withinc) Channelization including diversion of sewage generated from household / township / villages to sewer lines and interception of all drains (excluding drains carrying industrial wastewater) forJal Nigam / Nagar Nigam, RudrapurWithin six months after oning of Treatme nt wastewater) for
STP Outlet.Vithinc) Channelization including diversion of sewage generated from household / township / villages to sewer lines and interception of all drains (excluding drains carrying industrial wastewater) forJal Nigam / Nagar Nigam, RudrapurWithin six months after commiss oning of Treatme nt
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/ township / villages to sewer lines and interception of all drains (excluding drains carrying industrial wastewater) for nt
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interception of all drains oning of (excluding drains carrying industrial wastewater) for nt
(excluding drains carrying industrial wastewater) for nt
industrial wastewater) for nt
ensuring proper treatment system
through appropriate
treatment system.
d) Ensuring dairy / UEPPCB / Nagar Within
automobile service Nigam, three
stations and Hotels/ Rudrapur. months.
Restaurants should have
their own treatment
system and levy of fine in
case found violation.
e) Monitoring of STP outlet UEPPCB. After
effluent quality w.r.t. STPs commiss
effluent discharge norms oning of
prescribed under E(P) STP.
Rules, 1986 as amended.
f) Establishment of Septage Uttarakhand Jal Within
Treatment Plant of 125 Nigam / Nagar six
KLD capacity at Rampura, Nigam, Rudrapur months.
Rudrapur
4. Solid Waste Treatment and Disposal
a) Implementation of Action Urban Within a
plan for Solid Waste Development year.
Management for Rudrapur Directorate /
town prepared by Urban Nagar Nigam,
Development Directorate, Rudrapur.
Uttarakhand shall be
implemented. No case
collected solid waste shall
be disposed illegally into
river bed /flood plain zone.

	solid waste shall be	Rudrapur.	month.
	encouraged.		
C)	Composting will be made	Nagar Nigam,	Within
	out of bio-degradable	Rudrapur.	two
	•		months.
	•		
	0 0		
	-	NI NI	
a)		00	Within a
		Rudrapur.	month.
	· ·		
	• •		
	-		
Gr			
	-	UEPPCB	Within a
,	monitoring at three		month.
	locations during summer		
	(May-June) and winter		
	(December-January)		
b)	Identification of over	CGWA	Within
	exploited and critical area		six
	•		months.
c)	-		Regularly
		CGWA	
	•		
	· · · · <b>)</b> · · · ·		
	•		
	•		
d)	0.01	UEPPCB	Within
			three
			month.
1			
	from CGWA.		
e)	Ensure rainwater	CGWA	Within
	harvesting by industries,		six
	commercial complexes /		months.
	-		
	d) Gr a) b) c)	<ul> <li>encouraged.</li> <li>c) Composting will be made out of bio-degradable waste and recyclable waste shall be disposed thorough registered recyclers.</li> <li>d) Construction and demolition waste shall be disposed in designated area/place only. Designated place shall be earmarked by the Local authority.</li> <li>Ground Water Quality</li> <li>a) Groundwater quality monitoring at three locations during summer (May-June) and winter (December-January)</li> <li>b) Identification of over exploited and critical area w.r.t. groundwater extraction.</li> <li>c) To conduct periodic surprise inspection of industries to rule out any forceful injection of industrial wastewater in to groundwater or disposal of wastewater through rainwater recharging pit.</li> <li>d) All the industry should be directed to obtain necessary permission for groundwater extraction from CGWA.</li> <li>e) Ensure rainwater harvesting by industries,</li> </ul>	encouraged.Nagar Nigam, Rudrapur.c) Composting will be made out of bio-degradable waste and recyclable waste shall be disposed thorough registered recyclers.Nagar Nigam, Rudrapur.d) Construction and demolition waste shall be disposed in designated area/place only. Designated place shall be earmarked by the Local authority.Nagar Nigam, Rudrapur.a) Ground Water Quality monitoring at three locations during summer (May-June) and winter (December-January)UEPPCBb) Identification of over exploited and critical area w.r.t. groundwater extraction.CGWAc) To conduct periodic surprise inspection of industrial wastewater in to groundwater or disposal of wastewater through rainwater recharging pit.UEPPCBd) All the industry should be directed to obtain necessary permission for groundwater extractionUEPPCBe) Ensure rainwater harvesting by industries,CGWA

		groundwater recharging		
		with clean water.		
6.	Flo	od Plain Zone (FPZ)		
	a)	Demarcation of flood	Uttarakhand	Within
		plain zone and notification	Irrigation	six
		of Flood Plain Zone	Department.	months.
	b)	Plantation in Flood Plain	Uttarakhand	By next
		Zone	Forest	monsoon
			Department	
	c)	Checking encroachment	District	Within
		in the FPZ of Kalyani	Administration,	three
		River.	US Nagar /	months.
			Nagar Nigam,	
			Rudrapur	
	d)	Prohibition of disposal of	Local	Within a
		municipal plastic waste	Administration /	month.
		and biomedical wastes	Nagar Nigam,	
		particularly in drains and	Rudrapur	
L		FPZ.		
7.			and Irrigation Prac	
	a)	,	Uttarakhand	Regularly
		River flow of at upstream	Irrigation	
		and downstream of	Department.	
		Rudrapur town and		
	h )	maintain record.	Uttarakhand	Desudents
	b)			Regularly
		good irrigation practices	Irrigation	•
		to be adopted by the	Department /	
		farmers by organising	Department of	
		mass awareness	Agriculture.	
		programmes through media in vernacular		
		language.		

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#### Annexure-1

SN	Name of Industry	Address	
1	Britannia Industries Ltd	Sector-01,Plotno01	Connected
2	Parle Biscuit Pvt Ltd	Sector-01,Plotno03	Connected
3	SPP Food Products Pvt Ltd	Sector-01,Plotno04	Connected
4	TVS Srichakra Ltd	Sector-01,Plotno07	Connected
5	Dukes Products India Ltd	Sector-01,Plotno08	Connected
6	Nestle India Ltd	Sector-01,Plotno18	Connected
7	Lancer Food Products	Sector-01,Plotno2A	Connected
8	Haldiram Snacks Pvt Ltd	Sector-01,Plotno2-B	Connected
9	Murliwala Agrotech	Sector-02,Plotno01	Connected
10	Obeetee Textiles	Sector-02,Plotno01-A	Connected
11	Geeta Industries Pvt Ltd	Sector-02,Plotno02	Connected
12	Graffiti Exports Food Division	Sector-02,Plotno03	Connected
13	Interpump Hydraulics	Sector-02,Plotno03A	Connected
14	Dabur India Ltd Unit 2nd	Sector-02,Plotno04	Connected
15	Kusalava International Ltd	Sector-02,Plotno10	Connected
16	Titan Company Ltd (Jewellery division)	Sector-02,Plotno10-A	Connected
17	Titan Company Ltd	Sector-02,Plotno10-B&C	Connected
18	Khattri Aromas	Sector-02,Plotno12	Connected
19	Signode India Ltd	Sector-02,Plotno13	Connected
20	Radiant Polymers Pvt Ltd	Sector-02,Plotno13-A	Connected
21	Interarch Building Products Pvt Ltd	Sector-02,Plotno14	Connected
22	Polygel Industries Pvt Ltd	Sector-02,Plotno15	Connected
23	Kores Printer Technologies Pvt Ltd	Sector-02,Plotno15-A	Connected
24	Dabur India Ltd unit 1st	Sector-02,Plotno16	Connected
25	Bhagwati Products Ltd	Sector-02,Plotno18	Connected
26	Radhu Products Pvt Ltd	Sector-02,Plotno19	Connected
27	S.I. Auto Pack	Sector-02,Plotno20	Connected
28	Prabha Engineers	Sector-02,Plotno21	Connected
29	Manjushree Technopack Ltd Unit 2nd	Sector-02,Plotno23	Connected
30	Manjushree Technopack Ltd Unit 1st	Sector-02,Plotno23-A	Connected
31	Sai Enterprises	Sector-02,Plotno23-B	Connected
32	Asian Thai Foods & Investments Pvt Ltd	Sector-03,Plotno1to4	Connected
33	Fine Biotics Pharma Ltd	Sector-03,Plotno05	Connected
34	Parksons Packaging Ltd	Sector-03,Plotno08,09,10	Connected
35	Daffy Cosmetics Pvt Ltd	Sector-03,Plotno11	Connected
36	SFC foods	Sector-03,Plotno12	Connected
37	Deccan Healthcare	Sector-03,Plotno13	Connected
38	Kasa light and Electronics Pvt Ltd	Sector-03,Plotno14	Connected
39	Garg industries	Sector-03,Plotno15	Connected
40	Jovees Herbal Care	Sector-03,Plotno16	Connected
41	Well Pack Industries	Sector-03,Plotno18	Connected
42	Accacia Biotech	Sector-03,Plotno20	Connected
43	JMC Works Pvt Ltd	Sector-03,Plotno21	Connected
44	Maxchem Pharmaceuticals Pvt Ltd	Sector-03,Plotno22	Connected
45	Sushima laboratories	Sector-03,Plotno23	Connected
46	Luman Industries Ltd	Sector-03,Plotno26	Connected

#### List of industries connected with CETP, IIE, Pantnagar (US Nagar).

Action Plan for Rejuvenation of River Kalyani (D/s of Pantna	agar), Rudrapur (US Nagar)
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47	Bal Pharma Ltd	Sector-04,Plotno 01,02,03,06,09	Connected
48	Castlite	Sector-04,Plotno04	Connected
49	Pankaj Gas Cylinders Ltd	Sector-04,Plotno05,06,07	Connected
50	K.L. Packaging	Sector-04,Plotno09B	Connected
51	Wabco India Ltd	Sector-04,Plotno11	Connected
52	Acme Cleantech Solutions Pvt Ltd	Sector-05,Plotno 03to08,29to34	Connected
53	HP India Sales Pvt Ltd	Sector-05,Plotno09to11- A,35to37-A	Connected
54	Naari Pharma Pvt Ltd	Sector-05,Plotno 14to16,55to57	Connected
55	Aica laminates India Pvt Ltd	Sector-05,Plotno23,26,45,48	Connected
56	Delta Power Solution India Pvt Ltd	Sector-05,Plotno38	Connected
57	Emami Ltd	Sector-05,Plotno40,41	Connected
58	Rudra Autotech Engineering Pvt Ltd	Sector-05,Plotno42-B	Connected
59	Bhavani Industries Ltd	Sector-05,Plotno44	Connected
60	Maini Scaffold System	Sector-06,Plotno01,01A,02	Connected
61	Essar Packaging Pvt Ltd	Sector-06,Plotno05	Connected
62	Mohit Rubber Foam India Pvt Ltd	Sector-06,Plotno06	Connected
63	Rudrapur Electro Mach Pvt Ltd	Sector-06,Plotno07	Connected
64	Adinath Forging Pvt Ltd	Sector-06,Plotno08	Connected
65	Abhipriya Business India Pvt Ltd	Sector-06,Plotno09	Connected
66	Banco Products India Pvt Ltd	Sector-06,Plotno11	Connected
67	Autotech Engineers & Suppliers	Sector-06,Plotno12	Connected
68	Nagesh Industries	Sector-06,Plotno13	Connected
69	Boltmaster India Pvt Ltd	Sector-06,Plotno14,15,16	Connected
70	Auto Ignition Ltd Unit 2nd	Sector-06,Plotno17,18	Connected
71	Khandelwal laboratories	Sector-06,Plotno20	Connected
72	Goldstar footwear Pvt Ltd	Sector-06,Plotno21	Connected
73	Grandeur agrotech Pvt Ltd	Sector-06,Plotno22	Connected
74	Samruddhi industries Ltd	Sector-06,Plotno24,25	Connected
75	Replica remedies Pvt Ltd	Sector-06,Plotno32	Connected
76	Steel engineers	Sector-06,Plotno33	Connected
77	SLG bright wires	Sector-06,Plotno34	Connected
78	Colossus trade links Ltd	Sector-06,Plotno35	Connected
79	Best quality fasteners	Sector-06,Plotno36	Connected
80	Minda corporation Ltd unit 3rd	Sector-06,Plotno38	Connected
81	Pilot industries Ltd	Sector-06,Plotno39,45to49	Connected
82	RR enterprises	Sector-06,Plotno -40	Connected
83	Singla forging	Sector-06,Plotno41	Connected
84	Goodwear fashion Pvt Ltd	Sector-06,Plotno42	Connected
85	Pee aar automotive	Sector-06,Plotno43to44	Connected
86	TKT plasto moulders	Sector-06,Plotno -50	Connected
87	Adarsh electro plating works	Sector-06,Plotno51	Connected
88	Shakti Packaging	Sector-06,Plotno -56	Connected
89	Caparo engineering India Ltd	Sector-06,Plotno57	Connected
90	Real inner spring technologies Pvt Ltd unit 1st	Sector-06,Plotno58	Connected
91	Craftsmen	Sector-06,Plotno60	Connected
92	Windals precision Pvt Ltd	Sector-06,Plotno62	Connected
93	Somani foods	Sector-06,Plotno -63	Connected
	Pritpal singh and company	Sector-06,Plotno64	Connected

00	Hardev batteries	Sector-06,Plotno65	Connected
96	Bonsai udyog	Sector-06,Plotno68	Connected
97	ADO conmat India	Sector-06.Plotno68-A	Connected
98	Mitter fastener	Sector-06,Plotno69	Connected
99	Right tight fasteners	Sector-06,Plotno70	Connected
100	Holostik India Ltd	Sector-06,Plotno71,72,73	Connected
101	Orbit Industries	Sector-07,Plotno02	Connected
102	Mahalaxmi associates	Sector-07,Plotno05	Connected
103	Dwarfish pharmaceauticals	Sector-07.Plotno08	Connected
104	Khandelwal industries	Sector-07,Plotno09	Connected
105	Unimax International	Sector-07,Plotno1&10	Connected
106	Karuna enterprises	Sector-07,Plotno11	Connected
107	Shree balaji industries LLP	Sector-07,Plotno12	Connected
108	Technocract connectivity system pvt ltd	Sector-07,Plotno21	Connected
109	Nikhil pipe	Sector-07,Plotno22	Connected
110	Citizen exports	Sector-07,Plotno23	Connected
111	Precitech enclosures system Pvt Ltd	Sector-07,Plotno24	Connected
112	Parvatesh packaging	Sector-07,Plotno25	Connected
112		Sector-07,Plotno26	
	Jiwan plasto moulds corporation		Connected
114	Real inner spring technologies Pvt Ltd unit 2nd	Sector-07,Plotno27,28	Connected
115	Hemant industries	Sector-07,Plotno29	Connected
116	Kapil enterprises	Sector-07,Plotno29	Connected
117	Oxford plast India Pvt Ltd	Sector-07,Plotno31	Connected
118	Anand precision works	Sector-07,Plotno33	Connected
119	Uttaranchal packaging Pvt Ltd	Sector-07,Plotno36	Connected
120	Roshan industries	Sector-07,Plotno37	Connected
121	Chirag enterprises	Sector-07,Plotno34	Connected
122	Savvak engineering innovation Pvt Ltd	Sector-07,Plotno42	Connected
123	Avs lighting solution (dolphin)	Sector-07,Plotno43,44	Connected
124	Indian ink and chemicals industries	Sector-07,Plotno45	Connected
125	Om industries	Sector-07,Plotno46	Connected
126	Surya polypet Pvt Ltd	Sector-07,Plotno47	Connected
127	Narayani industries	Sector-07,Plotno47A	Connected
128	Sudtrac linkages Pvt Ltd	Sector-07,Plotno48,49	Connected
129	Shiva Enterprises	Sector-07,Plotno50	Connected
130	Phoenix engineering	Sector-07,Plotno51,52,53	Connected
131	GPM industries	Sector-07,Plotno54,55	Connected
132	Maple packaging and logistics	Sector-07,Plotno56	Connected
133	Mangla tubes	Sector-07,Plotno57	Connected
134	Shanti refrigeration industries Pvt Ltd unit 2	Sector-07,Plotno57	Connected
135	Suryodaya textiles pvt ltd	Sector-07,Plotno59,63	Connected
136	BCH Electric Itd	Sector-07,Plotno64,68	Connected
137	Sree durga fibre products Pvt Ltd	Sector-07,Plotno69,70,71	Connected
138	Tosha transformer	Sector-07,Plotno72	Connected
139	Emkay automobile industries	Sector-07,Plotno73,76	Connected
140	Empathy pharmaceauticals engg Ltd	Sector-07,Plotno77	Connected
141	Rajhans pressing	Sector-07,Plotno78,79	Connected
	Rajesh Export	Sector-07,Plotno80,81	Connected
142	Gannati gases	Sector-07 Plotno -82	Connected
	Ganpati gases Sri balaji agro pharma	Sector-07,Plotno82 Sector-07,Plotno83	Connected Connected

#### Action Plan for Rejuvenation of River Kalyani (D/s of Pantnagar), Rudrapur (US Nagar)

146	Tulip diagnostics Pvt Ltd unit 2nd	Sector-07,Plotno86	Connected
147	Voltas Limited	Sector-08,Plotno2-5	Connected
148	Shirdi Industries Ltd	Sector-09,Plotno01	Connected
149	Green ply industries Itd	Sector-09,Plotno02	Connected
150	Tvl engineers pvt ltd	Sector-09,Plotno05	Connected
150	Archidply Industries Ltd	Sector-09,Plotno07	Connected
152	Rama Panels Pvt :Ltd	Sector-09, Plotno08	Connected
152	BST Textiles pvt Itd	Sector-09,Plotno09	Connected
155	Mahalaxmi Polypack Pvt Ltd	Sector-09,Plotno	Connected
104		3A,3B,3C&3D	
155	C & S Himoinsa Pvt Ltd	Sector-09,Plotno12-A	Connected
156	Perfetti Van Melle India Limited	Sector-09,Plotno14-B	Connected
157	SRF Limited	Sector-09,Plotno14-C	Connected
158	L G Balakrishnan & Bros Limited	Sector-09,Plotno16	Connected
159	Metal Man Micro Turner	Sector-09,Plotno17	Connected
160	Sansera Engineering Pvt Ltd	Sector-09,Plotno18	Connected
161	Roop Polymer Ltd	Sector-09,Plotno19	Connected
162	Varroc Engineering Pvt Ltd	Sector-09,Plotno20	Connected
163	Om enterprises	Sector-09,Plotno21-A	Connected
164	Schneider Electric IT Business India Pvt Ltd	Sector-09,Plotno7-B,7-C	Connected
165	SBR Auto company Itd	Sector-09,Plotno7-D	Connected
166	Eden motors	Sector-09,Plotno7-F	Connected
167	Advik hitech Pvt Ltd	Sector-09,Plotno7-A	Connected
168	Shiv shakti biotechnology Itd	Sector-09,Plotno7-G	Connected
169	Aurangabad auto engg pvt Itd	Sector-09,Plotno7-H	Connected
170	Universal Comfort Systems Pvt Ltd	Sector-10,Plotno01	Connected
171	Neel Auto Pvt Ltd	Sector-10,Plotno04	Connected
172	Minda corporation Ltd (Uno)	Sector-10,Plotno05	Connected
173	Aurangabad Electricals Limited	Sector-10,Plotno06	Connected
174	Neel Metal Product Pvt Ltd	Sector-10,Plotno08	Connected
175	Minda corporation Ltd (Spark)	Sector-10,Plotno09&9A	Connected
176	Bajaj auto Ltd	Sector-10,Plotno10	Connected
177	Pricol Limited	Sector-10,Plotno11	Connected
178	Lumax DK Auto Industries Ltd	Sector-10,Plotno11-A&12	Connected
179	Micro turner-V	Sector-10,Plotno13	Connected
180	Shakti Polymers	Sector-10,Plotno13-A	Connected
181	Suprajit Engineering Ltd	Sector-10,Plotno14	Connected
182	Badve Engineering Limited	Sector-10,Plotno15	Connected
183	Endurance Technologies Limited	Sector-10,Plotno3&7	Connected
184	Ginger	Sector-Commercial, Plotno01	Connected
185	Kamal industries	Sector-IIDC,Plotno01	Connected
186	M.R. tubes	Sector-IIDC,Plotno03	Connected
187	Transcon power Pvt Ltd	Sector-IIDC,Plotno04	Connected
188	Jainsons herbo lab Pvt Ltd	Sector-IIDC,Plotno06	Connected
189	Viney corporation	Sector-IIDC,Plotno07	Connected
190	Makmaul laboratories Pvt Ltd	Sector-IIDC,Plotno08	Connected
191	Perfect sales corporation	Sector-IIDC,Plotno12	Connected
192	Sure and cure formulation India Pvt Ltd	Sector-IIDC,Plotno13	Connected
193	Apex industries	Sector-IIDC,Plotno15	Connected
194	Shanu enterprises	Sector-IIDC,Plotno16	Connected
194			
194	Diamond forever international	Sector-IIDC,Plotno17	Connected

197	Puritech	Sector-IIDC,Plotno23	Connected
198	Kapil enterprises	Sector-IIDC,Plotno24	Connected
199	Komal metal finisher	Sector-IIDC,Plotno25	Connected
200	Raaj industries	Sector-IIDC,Plotno26	Connected
201	Shanti refrigeration industries Pvt Ltd	Sector-IIDC,Plotno27,28	Connected
202	PG copybox industries	Sector-IIDC,Plotno29	Connected
203	Source automotive parts	Sector-IIDC,Plotno30	Connected
204	Ashoka metal industries	Sector-IIDC,Plotno31	Connected
205	Sag rubber	Sector-IIDC,Plotno32	Connected
206	Polar auto and engg industrial Pvt Ltd	Sector-IIDC,Plotno33	Connected
207	Lal ji Gopi nath ji industries	Sector-IIDC,Plotno34	Connected
208	Mac personal care Pvt Ltd	Sector-IIDC,Plotno37	Connected
209	Jupiter gases Pvt Ltd	Sector-IIDC,Plotno38	Connected
210	Chawala auto components	Sector-IIDC,Plotno39	Connected
211	Naturence herbals	Sector-IIDC,Plotno42	Connected
212	Auto Comp Corporation panse Pvt Ltd	Sector-IIDC,Plotno43	Connected
213	Avanti metal	Sector-IIDC,Plotno43	Connected
214	Sikands Ltd	Sector-IIDC,Plotno44,44- A,45	Connected
215	Taurus parentrals Pvt Ltd	Sector-IIDC,Plotno46-A	Connected
216	Shirdi organics Pvt Ltd	Sector-IIDC,Plotno47	Connected
217	Chhabra gas suppliers	Sector-IIDC,Plotno48A	Connected
218	Alpha plus industries	Sector-IIDC,Plotno49	Connected
219	Puri electronics Pvt Ltd	Sector-IIDC,Plotno53	Connected
220	Maxmed life sciences Pvt Ltd	Sector-IIDC,Plotno54	Connected
221	Falcon contracts Pvt Ltd	Sector-IIDC,Plotno55	Connected
222	Maxima solutions	Sector-IIDC,Plotno56	Connected
223	Rudrapur tubes India Pvt Ltd	Sector-IIDC,Plotno57	Connected
224	SPM automotive components Pvt Ltd	Sector-IIDC,Plotno58,65	Connected
225	Om sai motor industries	Sector-IIDC,Plotno64	Connected
226	Feezo chem formulation Pvt Ltd	Sector-IIDC,Plotno59,66	Connected
227	Himalayan auto era India Pvt Ltd	Sector-IIDC,Plotno 60,61,67,68	Connected
228	Steel bird international	Sector-IIDC,Plotno62,63,69	Connected
229	Devbhoomi polymers Pvt Ltd	Sector-IIDC,Plotno86	Connected
230	V.T. engineering	Sector-IIDC,Plotno87,88	Connected
231	PLG pharmaceuticals	Sector-IIDC,Plotno89	Connected
232	Aries drugs Pvt Ltd	Sector-IIDC,Plotno90	Connected
233	Tulbros formulation	Sector-IIDC,Plotno91	Connected
234	Himalaya polytech Pvt Ltd	Sector-IIDC,Plotno93,94	Connected
235	MSS filteration engg process Pvt Ltd	Sector-IIDC,Plotno95	Connected
236	Jai durga packers	Sector-IIDC,Plotno96	Connected

#### <u>Annexure-2</u>

HEAD OFFICE

Uttarakhand Environment Protection उत्तराखण्ड पर्यावरण संरक्षण एवं प्रदूषण नियंत्रग बोर्ड and Pollution Control Board 29/20, नेमी सेड, डालनवाला, देहरादून (उत्तराखण्ड) 29/20, Nemi Road, Dalanwala, Dohradun (Uttarakhand ) Proce (1/20) 219058, Tax (1/20) 2716 db db corn. Web. www.uespcb.uk.gov.b

#### OFFICE ORDER

In pursuance to notification of the Ministry of Environment, Forests and Climate Change, Govt. of India vide S.O.- 4(E) of 1<sup>st</sup> January, 2016, the Uttarakhand Environment Development Environment Protection and Pollution Control Board (UEPPCB), Dehradun hereby prescribe following inlet quality standards for Common Effluent Treatment Plant (CETP) located at the Integrated Industrial Estate (IIE), Pantnagar, Distt. US Nagar, Uttarakhand, based on the design parameters submitted by CETP operator to UEPPCB:

1. Inlet effluent quality standards for CETP, IIE, Pantnagar, Distt. US Nagar shall be as given below

S.N.	Parameters	Concentration (Maximum)	
1.	pH	5.5 - 9.0	
2.	BOD	550 mg/L	
3.	COD	1100 mg/L	
4.	Total Dissolved Solids (TDS)	2100 mg/L	
5.	Total Suspended Solids (TSS)	1500 mg/L	
6.	Oil & Grease	20 mg/L	
7.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	5.0 mg/L	
8.	Ammonical Nitrogen (as N)	50.0 mg/L	
9.	Cynide ( as CN)	2.0 mg/L	
10.	Hexavalent Chromium (as Cr*6)	2.0 mg/L	
11.	Total Chromium (as Cr)	2.0 mg/L	
12.	Copper (as Cu)	3.0 mg/L	
13.	Lead (as Pb)	1.0 mg/L	
14.	Nickel (as Ni)	3.0 mg/L	
15.	Zinc (as Zn)	15.0 mg/L	
16.	Arsenic (as As)	0.2 mg/L	
17.	Mercury (as Hg)	0.01 mg/L	
18.	Cadmium (as Cd)	1.0 mg/L	
19.	Selenium (as Se)	0.05 mg/L	
20.	Fluoride (as F)	15.0 mg/L	
21	Boron (as B) 2.0 mg/L		
21	Radio Active Materials		
22	Alpha Emitters, micro curie/mL	10-7	
22. 23.	Beta Emitters, micro curie/mL	10-8	

- 2. To achieve above limit, individual contributing units are required to pre-treat their wastewater/effluent before discharging to common conveyance system. All contributing industries shall ensure compliance of above limits with immediate effect.
- 3. CETP outlet quality standards shall be as per treated effluent quality standards notified under the Environment (Protection) Rules, 1986 as amended 01.01.2016.

This issues with approval of Competent Authority of the Board.

(S.P. Subudhi) Member Secretary

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#### Annexure-3

## MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

#### NOTIFICATION

#### New Delhi, the 1st January, 2016

**S.O.** 4(E).—In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:—

1. Short title and Commencement.—(1)These rules may be called the Environment (Protection) Amendment Rules, 2015.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986, in Schedule-I,-

(a) the serial number 41 and the entries relating thereto, shall be omitted;

(b) for serial number 55 and the entries relating thereto, the following serial number and entries shall be substituted, namely:----

S. No.	Industry	Parameter	Standards		
(1)	(2)	(3)	(4)		
"55.	Common Effluent Treatment Plants(CETP)				
	A. Inlet Quality Standards	For each Common Efflue prescribe Inlet Quality S Nitrogen and Heavy met Plant (CETP) and local r	tandards for Genera als as per design of needs & conditions.	al Parameters, Am the Common Effl	monical- uent Treatment
	B: Treated Effluent Quality		Max. permissible values (in milligram/litre except for pH and Temperature)		
	Standards		Into inland surface water	On land for irrigation	Into sea
÷		General Parameters	······		
		pН	6-9	6-9	6 - 9
		Biological Oxygen Demand, BOD <sub>3</sub> , 27 °C	30	100	100
		Chemical Oxygen Demand (COD)	250	250	250 *
		Total Suspended Solids (TSS)	100	100	100
		Fixed Dissolved Solids (FDS)	2100 <sup>🌣</sup>	2100*	NS*

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THE GAZETTE OF INDIA: EXTRAORDINARY

[PART II—SEC. 3(ii)]

		Specific parameters			
		Temperature, °C	Shall not	Shall not	Shall not
			exceed more	exceed more	exceed more
			than 5°C above	than 5°C above	than 5°C abov
- 1		*	ambient water	ambient water	ambient water
			temperature	temperature	temperature
		Oil & Grease	10	10	10
		Ammonical -Nitrogen	50	NS*	50
		Total Kjeldahl Nitrogen (TKN)	50	NS*	50
		Nitrate- Nitrogen	10	NS*	50
		Phosphates, as P	5	NS*	NS*
		Chlorides	1000	1000	NS*
		Sulphates, as SO <sub>4</sub>	1000	1000	NS*
		Flouride	2	2	15
		Sulphides, as S	2	2	5
		Phenolic compounds (as $C_6H_5OH$ )	1	1	5
		Total Res. Chlorine	1	1	1
		Zinc	5	15	15
		Iron	3	3	3
		Copper	3	3	3
		Trivalent Chromium	2	2	2
		Manganese	2	NS*	2
		Nickel	3	NS*	3
		Arsenic	0.2	NS*	0.2
		Cyanide, as CN	0.2	NS*	0.2
		Vanedium	0.2	NS*	0.2
		Lead	0.1	NS*	0.1
		Hexavalent Chromium	0.1	NS*	0.1
		Selenium	0.05	NS*	0.05
		Cadmium	0.05	NS*	0.03
		Mercury	0.01	NS*	As per
		Bio-assay test	As per industry- specific standards	As per industry- specific standards	industry- specific standards
	discharges shall	F treated effluent into sea shal Il be converted to marine ou al dilution of 150 times at the t 100 m away from discharge	mains. In cases we	and a minimum	dilution of 1500

[भाग II–खण्ड 3 (ii)]	भारत का राजपत्र : असाधारण 7			
effluent shall be 500 milli 2. Maximum permissible Common Effluent Treatr Dissolved Solids (FDS) (i.e. it is more than 1100 Solids (FDS) in treated ef 3. In case of discharge of tr quality shall be monitore Plants (CETP) managem	<ul> <li>Provided that the maximum permissible value for Chemical Oxygen Demand (COD) in treated effluent shall be 500 milligram/litre.</li> <li>2. Maximum permissible Fixed Dissolved Solids (FDS) contribution by constituent units of a Common Effluent Treatment Plant (CETP) shall be 1000 milligram/litre. In cases where Fixed Dissolved Solids (FDS) concentration in raw water used by the constituent units is already high (i.e. it is more than 1100 milligram/litre) then the maximum permissible value for Fixed Dissolved Solids (FDS) in treated effluent shall be accordingly modified by the State Board.</li> <li>3. In case of discharge of treated effluent on land for irrigation, the impact on soil and groundwate quality shall be monitored twice a year (pre- and post-monsoon) by Common Effluent Treatment Plants (CETP) management. For combined discharge of treated effluent and sewage on land for irrigation, the mixing ratio with sewage shall be prescribed by State Board.</li> </ul>			
4. Specific parameters	4. Specific parameters for some important sectors, selected from sector-specific standards			
Sector	Specific Parameters			
Textile	Bio-assay test, Total Chromium, Sulphide, Phenolic compounds			
Electroplating Industries	Oil & Grease, Ammonia-Nitrogen, Nickel, Hexavalent Chromium, Total Chromium, Copper, Zinc, Lead, Iron, Cadmium, Cyanide, Fluorides, Sulphides, Phosphates, Sulphates,			
Tanneries	Sulphides, Total Chromium, Oil & Grease, Chlorides			
Dye & Dye Intermediate	Oil & Grease, Phenolic compounds, Cadmium, Copper, Manganese, Lead, Mercury, Nickel, Zinc, Hexavalent Chromium, Total Chromium, Bio-assay test, Chlorides, Sulphates,			
Organic chemicals manufacturing industry	Oil & Grease, Bio-assay test, Nitrates, Arsenic, Hexavalent Chromium, Total Chromium, Lead, Cyanide, Zinc, Mercury, Copper, Nickel, Phenolic compounds, Sulphides			
Pharmaceutical industry	Oil & Grease, Bio-assay test, Mercury, Arsenic, Hexavalent Chromium, Lead, Cyanide, Phenolic compounds, Sulphides, Phosphates."			

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