



**SPEED POST**

File No. B-190200/STP/WQM-II/CPCB/2020-21 4337-4350

To,

The Agencies  
(As per the list enclosed)

10.08.2020

**COMPLIANCE DIRECTIONS UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986 FOR INSTALLATION OF ONLINE CONTINUOUS EFFLUENT MONITORING SYSTEM (OCEMS) AT SEWAGE TREATMENT PLANTS (STPs)**

**WHEREAS**, the Ministry of Environment & Forests, Govt. of India, vide notification S.O.157(E) of 27.02.1996 has delegated powers vested under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board (CPCB), to issue direction to any Industry, Municipal Corporation, Municipal Council, Cantonment Board to any local or other Authority for the violation of emission and effluent standards notified under the Environment (Protection) Rules, 1986 and other standards and norms; and

**WHEREAS**, sewage is a major cause for poor water quality and adversely impacts human health and aquatic life. The discharge of untreated and partially treated sewage not meeting standards is further adding to the problem of water pollution and very sizeable gap exist in generation and treatment of sewage; and

**WHEREAS**, there is need to inculcate habit of self-monitoring within the Sewage Treatment Plants (STPs) for complying with the prescribed standards and this can be achieved by the methods like installing Online Continuous Effluent Monitoring System (OCEMS); and

**WHEREAS**, for strengthening the monitoring and compliance through self-regulatory mechanism, OCEMS need to be installed and operated by the agencies responsible for operation and management of STPs on 'polluter pays principle'; and

**WHEREAS**, CPCB vide D.O. dated 08/07/2014 wrote to Chief Secretaries of four States Governments of Ganga basin namely Uttarakhand, Uttar Pradesh, Bihar & West Bengal to direct Urban Development Authorities and Urban Local Bodies to formulate a comprehensive plan for 100% sewage treatment so that no untreated sewage enters any water body and for setting up of Real Time/Continuous Water Quality Monitoring Stations at the outfall of each Drain/STP; and

Cont.

**WHEREAS**, CPCB published guideline for real time effluent monitoring system where STPs have to install real time effluent quality monitoring system and installation should be completed by March 31, 2015. The guideline is available on the link <https://cpcb.nic.in/upload/thrust-area/revised-GUIDELINES-final-sent-for-publication-on07.11.2014.pdf>; and

**WHEREAS**, CPCB issued directions dated 09.10.2015 under Section 5 of the Environment (Protection) Act, 1986 to the Commissioner/Mayor/Chief Executive Officer of the Nagar Nigam/ Municipal Corporation/Local Bodies/Panchayat of the identified 118 Ganga front towns for compliance of the following direction:

- i. At the inlet and outlet of the sewage treatment plant, online monitoring devices should be installed to monitor the consented parameters.

**AND WHEREAS**, CPCB issued directions dated 19.04.2017 under Section 5 of The Environment (Protection) Act, 1986 to Uttarakhand Jal Sansthan, Pey Jal Nigam (Uttarakhand), Uttar Pradesh Jal Nigam, Bihar Rajya Jal Prishad, Kolkata Municipal Development Authority (KMDA), Kolkata Municipal Corporation (KMC), Kolkata Metropolitan Water and Sanitation Authority (KMWSA), Public Health Engineering Department (PHED-WB) and Jiaganj-Azimganj Nagar Palika (WB) to provide the status of installation of online monitoring devices at STPs to monitor consented parameters; and

**WHEREAS**, Hon'ble National Green Tribunal (NGT) in its judgement dated 13/07/2017 in O. A. No. 200/2014 [(M.A. No. 594/2017 & 598/2017) (C.W.P No. 3727/1985)], O. A. No. 501/2014 (M.A. No. 404/2015), O. A. No. 146/2015, Appeal No. 63/2015, O. A. no. 127/2017 and O. A. No. 133/2017 (C.W.P No. 200/2013) directed that "*All the existing STPs as well as the STPs to be designed and constructed should satisfy the existing standards. The new STPs should be designed and constructed in a manner in which they should be able to achieve more stringent norms, if prescribed in future*"

**AND WHEREAS**, the Central Government vide notification dated 13.10.2017 has notified the discharge standard for sewage treatment plants under the Environment (Protection) Rules, 1986; and

**WHEREAS**, Hon'ble NGT vide its order dated 31/08/2018 and 19.02.2019 in O. A. No. 593/2017 (WP (Civil) No. 375/2012), Paryavaran Suraksha Samiti & Anr. Vs. Union of India & Ors. directed that "*The CPCB may take penal action for failure, if any, against those accountable for setting up and maintaining STPs, CETPs and ETPs. CPCB may also assess and recover compensation for damage to the environment and said fund may be kept in a separate account and utilized in terms of an action plan for protection of the environment.*"

**AND WHEREAS**, in compliance of above quoted Hon'ble NGT order, CPCB issued methodology for imposing Environmental Compensation vide circular dated 24/05/2019 and cases to be considered for levying penalty are discharges in violation of consent conditions, mainly prescribed standards/non-compliance with the directions issued, such as direction for closure due to non-installation of OCEMS, non-adherence to action plan submitted/ intentional

avoidance of data submission or data manipulation by tampering the Online Continuous Emission/Effluent monitoring System/Accidental discharges lasting for short durations resulting into damage to the environment/Intentional discharge of the environment-land, water, air resulting into acute injury or damage to the environment/ injection of treated/partially treated/untreated effluents to ground water; and

**WHEREAS**, Hon'ble NGT vide its order dated 06/08/2018 in O. A. No. 200/2014 [(M.A. No. 254/2018 & M.A. No. 872/2018) (C.W.P No. 3727/1985)] and O. A. No. 668 of 2017 [(Earlier M.A. No. 923/2017 in O.A. No. 200/2014)] directed that "*The online mechanism for monitoring the sewage treatment plants should also be connected to the servers of CPCB and State Pollution Control Boards so that the CPCB can also monitor the data.*"

**AND WHEREAS**, CPCB issued directions dated 13.06.2019 under Section 18 (1) (b) of the Water (Prevention And Control of Pollution) Act, to State Pollution Control Boards of Uttarakhand, Uttar Pradesh, Bihar and West Bengal for compliance of the following direction:

1. SPCB shall direct to all concerned local bodies/ authorities operating STPs in their state to install online continuous effluent monitoring system at the outlet of STPs to monitor the consented parameters and provide connectivity to CPCB and SPCB servers for continuous monitoring.

**AND WHEREAS**, Standard Operating Protocol for Verification of Installation and Calibration of UV-Vis Dual Beam Scanning & Multipoint calibration mechanism technology based OCEMS (Effluent) used in Sewage Treatment Plants (STPs) is prepared by CPCB and available on the link [https://cpcb.nic.in/NGTMC/sop\\_ocems\\_stp.pdf](https://cpcb.nic.in/NGTMC/sop_ocems_stp.pdf); and

**WHEREAS**, the Hon'ble NGT vide order dated 21.12.2018 in the O.A. no. 1069/2018 granted stay on discharge standard for sewage treatment plants notified vide notification dated 13.10.2017; and

**WHEREAS**, the Hon'ble NGT in the O.A. no. 1069/2018 vide order dated 30.04.2019 accepted the standards recommended by expert committee (constituted by Hon'ble NGT) with the modification that the standard recommended for Mega and Metropolitan Cities will also apply to the rest of the country, not only for new STPs but also for existing/under construction STPs without any delay. The link of order is as follows <https://greentribunal.gov.in/caseDetails/DELHI/0701102005292018>; and

**WHEREAS**, as per the Hon'ble NGT order dated 30.04.2019, the applicable treated discharge standards for STPs are pH – 5.5-9.0, BOD – 10 mg/l, TSS – 20 mg/l, COD – 50 mg/l, Nitrogen-Total – 10 mg/l, Phosphorus-Total (For Discharge into Ponds, Lakes) – 1.0 mg/l, Faecal Coliform (FC) – 100 MPN/100 ml (Desirable) & 230 MPN/100 ml (Permissible); and

**WHEREAS**, CPCB issued directions dated 26.06.2020 under Section 18 (1) (b) of the Water (Prevention And Control of Pollution) Act, to State Pollution Control Boards of Uttarakhand, Uttar Pradesh, Bihar and West Bengal for compliance of the following direction:

1. No authority shall allow the discharge of polluted sewage or polluted effluents directly into a water channel or stream in violation of the law even during monsoon season and they shall ensure that the standards for Faecal Coliform are duly maintained.

**AND NOW, THEREFORE,** in exercise of powers delegated under Section 5 of the Environment (Protection) Act, 1986 you are directed to comply with the following directions:

- 1) The agency shall install OCEMS system at outlet of STPs located in Ganga front towns (list enclosed) for parameters Flow, pH, BOD, COD, TSS, Ammoniacal Nitrogen and Nitrate Nitrogen and provide connectivity of the same with SPCB and CPCB servers for 24x7 data transmission within six months from the date of issuance of the direction.
- 2) Environmental Lab shall be set up at STPs within six months from the date of issuance of the direction for daily analysis of parameters pH, BOD, COD, TSS, Total Nitrogen and Faecal Coliform and for MLSS and DO, in case STPs having aerobic treatment process, and for Total Phosphorus in case of discharge into Ponds or Lakes. Logbooks of analysis results shall be duly maintained.
- 3) Faecal coliform level in treated sewage effluent shall be updated on real time data acquisition software manually after testing in STP laboratory. At least one sample shall be collected and analyzed on daily basis.
- 4) Action plan for setting up of environmental lab, installation and connectivity of OCEMS shall be submitted to CPCB within 30 days.
- 5) Documentary evidence regarding status of installation of Online Continuous Effluent Monitoring System and its connectivity to CPCB/SPCB servers shall be submitted to CPCB.
- 6) No new STP in Ganga front towns shall be commissioned without installation of OCEMS system.

In case of default in compliance with the above directions, CPCB will be constrained to initiate appropriate action against the agency including levying of Environmental Compensation, without giving any further notice, in accordance with the provision of the Environment (Protection) Act. 1986 and NGT orders.

  
(SHIV DAS MEENA)  
CHAIRMAN

*Anjali*

**Copy to:**

1. The Principal Secretary/ Secretary  
Urban Development Department/Directorate  
(Uttarakhand, Uttar Pradesh, Bihar, Jharkhand  
& West Bengal) : for kind information  
and necessary action  
please
2. The Chairman  
State Pollution Control Boards  
(Uttarakhand, Uttar Pradesh, Bihar, Jharkhand &  
West Bengal) : with a request to  
ensure compliance of  
the direction
3. The Director General,  
National Mission for Clean Ganga (MoWR, RD & GR)  
1st Floor, Major Dhyan Chand National Stadium  
India Gate, New Delhi – 110002 : for kind information  
please
4. The Joint Secretary (CP Division),  
Ministry of Environment, Forests, & Climate Change  
Indira Paryavaran Bhawan, Jorbagh Road,  
Ali Ganj, Lodi Colony, New Delhi – 110013 : for kind information  
please
5. The Project Director  
State Programme Management Group (SPMG) – Namami  
Gange/ State Mission for Clean Ganga (SMCG)  
(Uttarakhand, Uttar Pradesh, Bihar, Jharkhand  
& West Bengal) : for kind information  
and necessary action  
please
6. The Adviser  
National River Conservation Directorate (NRCD)  
Ministry of Jal Shakti  
Pandit Deendayal Antyodaya Bhawan, CGO Complex,  
Lodhi Road, New Delhi - 110 003 : for kind information  
please
7. The Regional Director,  
Regional Directorate –Lucknow & Kolkata  
Central Pollution Control Board : for kind information  
please
8. ✓ The Incharge, IT Division, CPCB : for uploading on  
website
9. Incharge, WQM-II, CPCB, DELHI : for record

  
**(PRASHANT GARGAVA)**  
**MEMBER SECRETARY**



### **List of Agencies**

1. The Managing Director, Pey Jal Nigam, Uttarakhand
2. The Chief General Manager, Uttarakhand Jal Sansthan, Uttarakhand
3. The General Manager, Indian Drugs and Pharmaceuticals Limited (IDPL), Uttarakhand
4. The Managing Director, Uttar Pradesh Jal Nigam, Uttar Pradesh
5. The Executive Officer, Nagar Palika Parishad Anoopshahr, Uttar Pradesh
6. The General Manager, Diesel Locomotive Works (DLW), Varanasi, Uttar Pradesh
7. The Station Director, Narora Atomic Power Station, Narora, Uttar Pradesh
8. The Managing Director, Bihar Rajya Jal Parshad, Bihar
9. The Managing Director, Bihar Urban Infrastructure Development Corporation Limited (BUIDCO), Bihar
10. The Chief Managing Director, Jharkhand Urban Infrastructure Development Company Limited (JUIDCO), Jharkhand
11. The Chief Executive Officer, Kolkata Metropolitan Development Authority (KMDA), West Bengal
12. The Municipal Commissioner, Kolkata Municipal Corporation, West Bengal
13. The Engineer-In-Chief, Public Health Engineering Department-West Bengal
14. The Executive Engineer, Jiaganj-Azimganj Municipality, West Bengal

**List of STPs in Ganga front towns along with corresponding Agency responsible for Operation and Maintenance**

S. No.	STPs	Ganga Front Town	Status of STP	Authority for O&M
1.	Gangotri	Gangotri	Commissioned	Pey Jal Nigam, Uttarakhand (PJN)
2.	Badrinath 0.26 MLD STP	Badrinath	Commissioned	
3.	Chamoli 0.05 MLD STP	Chamoli-Gopeshwar	Commissioned	
4.	Chamoli 0.76 MLD STP	Chamoli-Gopeshwar	Commissioned	
5.	Forest Nala STP	Nandprayag	Commissioned	
6.	Sangam Nala STP	Nandprayag	Commissioned	
7.	Near Police Chowki STP	Karanprayag	Commissioned	
8.	Old Bridge STP	Karanprayag	Commissioned	
9.	Near Ward 1 & 3 STP	Karanprayag	Commissioned	
10.	Near SBI Bank STP	Rudraprayag	Commissioned	
11.	Near Dart Pull STP	Rudraprayag	Commissioned	
12.	Army Bend STP	Rudraprayag	Commissioned	
13.	Anoop Negi Memorial School STP	Rudraprayag	Commissioned	
14.	Tekla STP	Uttarkashi	Commissioned	
15.	Srinagar 3.5 MLD	Srinagar	Commissioned	
16.	Srinagar 1.0 MLD	Srinagar	Commissioned	
17.	Kirtinagar	Kirti Nagar	Commissioned	
18.	Muni ki Reti	Rishikesh	Commissioned	
19.	Old Mothrowala 20 MLD	Dehradun	Commissioned	
20.	New Mothrowala 20 MLD	Dehradun	Commissioned	
21.	Jakhan	Dehradun	Commissioned	
22.	Salawala	Dehradun	Commissioned	
23.	Vijay Colony	Dehradun	Commissioned	
24.	Indira Nagar	Dehradun	Commissioned	
25.	Sarai Jawalapur 14 MLD	Haridwar	Under Trial	
26.	Subhash Nagar STP	Karanprayag	Under Trial	
27.	Near Steel Bridge	Rudraprayag	Under Trial	
28.	Badrinath 0.01 MLD	Badrinath	Under Trial	
29.	Badrinath 1.0 MLD	Badrinath	Under construction	
30.	BRO Bridge STP	Karanprayag	Under construction	
31.	Near Balini Road	Rudraprayag	Under construction	
32.	Jageetpur 68 MLD	Haridwar	Under construction	
33.	Chandreshwar STP	Rishikesh	Under construction	
34.	Lakkarghat New 26 MLD	Rishikesh	Under construction	
35.	Vivekanand colony 1.19 MLD	Gopeshwar	Under construction	
36.	Deendayal Upadhyay park 1.12 MLD	Gopeshwar	Under construction	
37.	Pokhri Band 1.25 MLD	Gopeshwar	Under construction	
38.	Joshimath 1.08 MLD	Joshimath	Commissioned	Uttarakhand Jal Sansthan (UJS)
39.	Gyansu	Uttarkashi	Commissioned	
40.	Tehri	Tehri	Commissioned	
41.	Kirti Nagar	Kirti Nagar	Commissioned	
42.	Bah Bazar Devprayag	Devprayag	Commissioned	
43.	Sangam Bazar Devprayag	Devprayag	Commissioned	
44.	Shanti Bazar Devprayag	Devprayag	Commissioned	
45.	Tapovan	Tapovan	Commissioned	
46.	Swarg Ashram Rishikesh	Rishikesh	Commissioned	
47.	Lakkarghat, Rishikesh 6.0 MLD	Rishikesh	Commissioned	
48.	Jageetpur, Haridwar 27 MLD	Haridwar	Commissioned	
49.	Jageetpur, Haridwar 18 MLD	Haridwar	Commissioned	
50.	Sarai, Jawalapur STP 18 MLD	Haridwar	Commissioned	
51.	Kargi	Dehradun	Commissioned	
52.	Bijnor	Bijnor	Commissioned	
53.	Brajhat STP	Garhmukteshwar	Commissioned	
54.	Garh STP	Garhmukteshwar	Commissioned	
55.	Narora Town	Narora	Commissioned	

56.	Fatehgarh	Farrukhabad	Commissioned	
57.	Kannauj	Kannauj	Commissioned	
58.	Jajmau, Kanpur 5 MLD	Kanpur	Commissioned	
59.	Jajmau, Kanpur 130 MLD	Kanpur	Commissioned	
60.	Jajmau, Kanpur 43 MLD	Kanpur	Commissioned	
61.	Bingawan STP, Kanpur	Kanpur	Commissioned	
62.	Sajari STP, Kanpur	Kanpur	Commissioned	
63.	Salori 29 MLD Prayagraj	Prayagraj	Commissioned	
64.	Salori 14 MLD Prayagraj	Prayagraj	Commissioned	
65.	Rajapur, Prayagraj	Prayagraj	Commissioned	
66.	Pongaghat, Prayagraj	Prayagraj	Commissioned	
67.	Kodra, Prayagraj	Prayagraj	Commissioned	
68.	Naini Prayagraj	Prayagraj	Commissioned	
69.	Numayadahi STP, Prayagraj	Prayagraj	Commissioned	
70.	Mirzapur (Pakka Pokhra)	Mirzapur	Commissioned	
71.	Vindhayachal	Mirzapur	Commissioned	
72.	Dinapur	Varanasi	Commissioned	
73.	Dinapur	Varanasi	Commissioned	
74.	Bhagwanpur BHU	Varanasi	Commissioned	
75.	Goithaha	Varanasi	Commissioned	
76.	New Naini 42 MLD	Prayagraj	Under Construction	
77.	Phaphamau STP 14 MLD	Prayagraj	Under Construction	
78.	Ramanna 50 MLD	Varanasi	Under Construction	
79.	Ramnagar 10 MLD	Varanasi	Under Construction	
80.	Anoopsahar Zone B (old) 1.75 MLD	Anupshahr	Commissioned	Anoopshahr Nagar Palika, Bulandshahr
81.	Anoopsahar Zone A (old) 0.85 MLD	Anupshahr	Commissioned	
82.	Anoopsahar Zone B (new) 1.5 MLD	Anupshahr	Commissioned	
83.	Anoopsahar Zone A (new) 1 MLD	Anupshahr	Commissioned	
84.	Beur STP (OLD), Patna, Bihar	Patna	Commissioned – Non Operational	Bihar Rajya Jal Parishad (BRJP), Patna
85.	Saidpur STP (OLD)	Patna	Commissioned – Non-Operational	
86.	Saidpur	Patna	Under Construction	Bihar Urban Infrastructure Development Corporation (BUIDCO)
87.	Karmalichak	Patna	Under Construction	
88.	Beur	Patna	Under Construction	
89.	Pahari	Patna	Under Construction	
90.	Digha	Patna	Under Construction	
91.	Kankarbagh	Patna	Under Construction	
92.	Maner	Maner (Patna)	Under Construction	
93.	Danapur	Danapur (Patna)	Under Construction	
94.	Bakhtiyarpur	Bakhtiyarpur (Patna)	Under Construction	
95.	Barh	Barh (Patna)	Under Construction	
96.	Mokama	Mokama (Patna)	Under Construction	
97.	Bhagalpur	Bhagalpur	Under Construction	
98.	Munger	Munger	Under Construction	
99.	Fatuha	Fatuha (Patna)	Under Construction	
100.	Chapra	Chapra	Under Construction	
101.	Begusarai	Begusarai	Under Construction	
102.	Khagaria	Khagaria	Under Construction	
103.	Sultanganj	Sultanganj (Bhagalpur)	Under Construction	
104.	Phulwari Sharif	Patna	Under Construction	
105.	Beur, Pulwari Sharif	Patna	Under Construction	
106.	Serinpur	Buxar	Under Construction	
107.	Sonepur	Sonepur (Saran)	Under Construction	
108.	Hajipur	Hajipur (Vaishali)	Under Construction	
109.	STP Near Brhambaba	Sahibganj	Under Trial	Jharkhand Urban Infrastructure Development Corporation (JUIDCO)
110.	STP near Chanan	Sahibganj	Under Trial	
111.	Rajmahal STP	Rajmahal	Under Construction/Trial	



112.	Titagarh (ASP)	Titagarh	Commissioned	Kolkata Municipal Development Authority (KMDA)	
113.	Titagarh (OP)	Titagarh	Commissioned		
114.	Bansberia STP	Bansberia	Commissioned		
115.	Kamarhati STP	Kamarhati	Commissioned		
116.	Garulia STP	Garulia	Commissioned		
117.	Maheshtala STP	Maheshtala	Commissioned		
118.	Bhadreswar STP	Bhadreshwar	Commissioned		
119.	Baidyabati STP	Baidyabati	Commissioned		
120.	Howrah STP (Arupara)	Howrah	Commissioned		
121.	Kona STP (Chakpara, Anandanagar Gram, Bally) Panchayat)	Howrah	Commissioned		
122.	Champadani	Champdani	Commissioned		
123.	Panihati STP	Panihati	Commissioned		
124.	Gayeshpur, Halishar & Kanchrapara	Kanchrapara	Commissioned		
125.	Serampore STP	Serampore	Commissioned		
126.	Konnagar (Rishra)	Konnagar	Commissioned		
127.	Naihati STP	Naihati	Commissioned		
128.	Chandannagar STP (OP)	Chandannagar	Commissioned		
129.	Chandannagar STP (TF)	Chandannagar	Commissioned		
130.	Jaggadal – Bhatpara 8.5 MLD	Bhatpara	Commissioned		
131.	Jaggadal – Bhatpara 31 MLD	Bhatpara	Commissioned		
132.	Jagaddal, Bhatpara 10 MLD	Bhatpara	Commissioned		
133.	Jaggadal – Bhatpara (OP)-0.5 MLD	Bhatpara	Commissioned		
134.	Kankinara, Madrail,	Bhatpara	Commissioned		
135.	Kalyani Block-B2, B3 11 MLD	Kalyani	Commissioned		
136.	Kalyani Town area 10 MLD	Kalyani	Commissioned		
137.	Bandipur STP	Titagarh	Commissioned		
138.	Garden Reach STP	Kolkata	Commissioned		Kolkata Municipal Corporation (KMC)
139.	Cossipore, Chitpur, Bangur	Kolkata	Commissioned		
140.	South Suburban /Kearapukur, Haridevpur	South Suburban	Commissioned		
141.	Bagahajatin STP	Kolkata	Commissioned		
142.	Hatisur	Kolkata	Commissioned		
143.	Berhrampore	Murshidabad	Commissioned		
144.	Nabadwip	Nabadwip	Commissioned		Public Health Engineering Department, West Bengal
145.	STP Jiaganj-Azimganj	Jiaganj-Azimganj	Commissioned	Jiaganj-Azimganj Municipality, Murshidabad, West Bengal	
146.	NAPS Township	Narora	Commissioned	Narora Atomic Power Station	
147.	IDPL STP	Rishikesh	Commissioned	Indian Drug and Pharmaceutical Limited (IDPL)	
148.	DLW STP	Varanasi	Commissioned	Diesel Locomotive Works, Indian Railways	