

## Speed Post

F.No.B-23012/1/PCI-III

Date: 24.02.2015

To,

**The Chairman,  
SPCBs (Uttarakhand/ Uttar Pradesh)**

**DIRECTIONS UNDER SECTION 18(1)(b) OF THE WATER (PREVENTION AND CONTROL OF POLLUTION) ACT, 1974 AND SECTION 18(1)(b) OF THE AIR (PREVENTION AND CONTROL OF POLLUTION) ACT, 1981 REGARDING IMPLEMENTATION OF 'CHARTER FOR WATER RECYCLING AND POLLUTION PREVENTION IN PULP & PAPER INDUSTRY'.**

**WHEREAS**, amongst others, under Section 17 of the Water (Prevention and Control of Pollution) Act, 1974, one of the functions of the State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs), constituted under the Water (Prevention & Control of Pollution) Act, 1974 is to plan a comprehensive programme for prevention, control or abatement of pollution of streams and wells in the State and to secure the execution thereof; and

**WHEREAS**, amongst others, under Section 17 of the Air (Prevention and Control of Pollution) Act, 1981, one of the functions of the SPCBs/ PCCs, constituted under the Air (Prevention & Control of Pollution) Act, 1981 is to plan a comprehensive programme for prevention, control or abatement of air pollution and to secure the execution thereof; and

**WHEREAS**, amongst others, under Section 16 of the Water (Prevention and Control of Pollution) Act, 1974, and Section 16 of the Air (Prevention and Control of Pollution) Act, 1981, one of the functions of the Central Pollution Control Board (CPCB) constituted under the Water (Prevention & Control of Pollution) Act, 1974 is to coordinate activities of the SPCBs/ PCCs and to provide technical assistance and guidance to SPCBs/ PCCs; and

**WHEREAS**, the Central Government has notified standards for discharge of environmental pollutants from various categories of industries and common effluent treatment plants (CETPs), under the Environment (Protection) Act, 1986 and rules framed there under, and

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**WHEREAS**, the SPCBs/ PCCs can stipulate standards for discharge of environmental pollutants from various categories of industries and common effluent treatment plants (CETPs) more stringent than those notified by the Central Government, under the Environment (Protection) Act, 1986 and rules framed there under; and

**WHEREAS**, pulp & paper industries have been categorized under the 17 categories of highly polluting industries. The major environmental issues related to the Pulp & Paper Industry include high volume of fresh water consumption and waste water discharge, adverse impact on receiving stream due to high pollution load, high colour in effluents, black liquor management in chemical pulping, and odorous emissions; and

**WHEREAS**, 'Charter for Corporate Responsibility for Environmental Protection (CREP)' was formulated in association with the industry associations in 2003, the last action point of which was scheduled to be implemented by 2008. Implementation of CREP has helped the Pulp & Paper industry in reduction in effluent generation, technology up gradation and improved environmental performance; and

**WHEREAS**, CPCB conducted techno-economic feasibility study for setting up of Common Effluent Treatment Plant (CETP) and Common Chemical Recovery Plant (CCRP) in identified clusters of pulp & paper industries located in the Ganga catchment area of Uttarakhand and Uttar Pradesh (hereinafter referred to as 'the feasibility study') during 2010-11; and

**WHEREAS** 'Charter for water recycling and pollution prevention in pulp & paper industry in Ganga River basin' was formulated as a part of the feasibility study, which prescribes action points for implementation of the recommendation of the feasibility study; and

**WHEREAS** the feasibility study and the Charter were discussed and finalized with Pulp & Paper industry representatives, experts from Central Pulp & Paper Research Institute (CPPRI), Saharanpur, Indian Institute of Technology (IIT)-Roorkee, IIT, Delhi, IIT-Kanpur and officials from Uttarakhand Environment Protection & Pollution Control Board (UEPPCB) and Uttar Pradesh Pollution Control Board (UPPCB); and

**WHEREAS** the 'Charter for water recycling and pollution prevention in pulp & paper industry in Ganga River basin' was implemented during 2012-13 by Pulp & Paper industries operating in the five identified clusters viz.; Kashipur and Roorkee in Uttarakhand and Muzaffarnagar (Bhopa Road/ Jansath Road), Meerut (Village Saini, Meerut-Mawana Road) and Moradabad in Uttar Pradesh; and

**WHEREAS** considering the successful implementation of the CREP (2003) and the 'Charter for the Pulp & Paper industries operating in Ganges River Basin' (2012), it has been considered to move forward and formulate Charter which would be applicable for the entire Pulp & Paper industries operating in the Country, to improve their environmental performance; and

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**WHEREAS** CPCB formulated the 'Charter for Water Recycling and Pollution Prevention in Pulp & Paper Industries' in consultation with experts from Pulp & Paper industries, Central Pulp & Paper Research Institute (CPPRI), Saharanpur and Department of Paper Technology, IIT, Roorkee in workshops/ meetings held on July 23, 2014, August 5, 2014, August 6, 2014 and September 23, 2014. A detailed Implementation & monitoring Programme (DIMP) of the Charter has also been formulated; and

**WHEREAS** a Workshop was held on 29<sup>th</sup> September, 2014 in New Delhi with representatives/ experts from SPCBS/ PCCs, National Mission for Clean Ganga (NMCG), CPPRI, Department of Industrial Policy & Programme (DIPP), IIT-Roorkee and Pulp & Paper industries and their Associations to discuss and finalise the Charter and programme for implementation of the Charter by the Pulp & Paper industries operating in the country; and

**WHEREAS**, the meeting with consensus resolved for implementation of the Charter by all the Pulp & Paper industries operating in the Country, as per the implementation programme; and

**WHEREAS**, about 766 Pulp & Paper units have been identified operating in 24 States/ UTs in the country. However, concerned SPCBs shall verify and finalise the list by addition of any leftover Pulp & Paper unit operating in their respective State; and

**WHEREAS**, the nine States of Uttar Pradesh, Uttarakhand, Haryana, NCT of Delhi, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, and West Bengal, located in the Ganga River Basin are primarily concerned with causing industrial pollution in the River Ganga; and

**WHEREAS**, the 'Charter for Water Recycling and Pollution Prevention in Pulp & Paper Industries' (herein after referred to as 'the Charter') specific to Pulp & Paper industries operating in the nine Ganga River Basin States is formulated, which envisages upgradation of the status of Pulp & Paper industries in terms of process technology, practices and environmental performance, besides substantial reduction of fresh water consumption, wastewater generation and compliance with the prescribed environmental norms, to achieve desired level of environmental protection, zero discharge to recipient river streams through utilisation of treated effluent, meeting the irrigation water quality norms, for irrigation and to meet objectives of the National Mission for Clean Ganga. However, programmes for implementation of advanced technological and managerial tools to achieve further higher technological and compliance status may further be required to meet the national/ state/ specific objectives; and

**Now therefore,** in view of the above referred observations and objectives and in exercise of the powers conferred under section 18(1)(b) of the Water (Prevention and Control of Pollution) Act, 1974, and section 18(1)(b) of the Air (Prevention and Control of Pollution) Act, 1981, you are hereby directed to take appropriate actions for compliance of following points in a time bound manner:

1. SPCB shall issue directions following applicable procedure under section 33A of the Water (Prevention and Control of Pollution) Act, 1974 and section 31A of the Air (Prevention and Control of Pollution) Act, 1981 to all the Pulp & Paper industrial Units operating in your State to take action for compliance of the following pollution control measures:
  - a. Pulp & Paper industrial Units operating in your State (list annexed at Annexure-II) shall plan and secure the execution of the activities/ action points/ desired technologies as prescribed under the 'Charter for Water Recycling and Pollution Prevention in Pulp & Paper industries (specific to Ganga River Basin States)' (placed as Annexure-I), and comply with the fresh water consumption, wastewater generation and treated effluent quality norms within the time limits as prescribed under the Charter placed at Annexure-I.
  - b. Pulp & Paper industrial Units operating in your State shall implement following activities/ action points and adhere to the time schedule/ frequency as prescribed below.

S.No.	Activities/ Action Points	Time Schedule/ frequency
i.	Commissioning of continuous online effluent/ emission monitoring system	March 31, 2015
ii.	Self Assessment: Inventory of existing process technologies & practices, identification of upgradation requirement and preparation of action plan for upgradation of process technology with supporting document & pert chart; submission to SPCB/ CPCB	April 2015
iii.	Self Assessment: Preparation of report of existing water consumption- section wise, reuse/ recycle practices; Preparation of work plan to achieve fresh water requirement targets, submission to SPCB/ CPCB	April 2015

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iv.	Self Assessment: Preparation of ETP adequacy assessment report; and proposed augmentation and up-gradation plan, design/ drawing, along with monthly PERT Chart, submission to SPCB/ CPCB	April 2015
v.	Installation of sealed flow meter /running hours meter on bore wells and inlet pipe line of different process section i.e. pulp mill, paper machine, boiler etc	April 2015
vi.	Colour coding of pipe lines carrying recycled process water and fresh process water	May 2015
vii.	Maintenance of log book to record daily water drawl from bore well and water consumption unit wise after installation of meter and reporting to SPCB	Monthly
viii.	Self Monitoring & Reporting: ETP performance monitoring by individual Mills and maintenance of Log Book	Monthly
ix.	Submission of monthly progress reports to SPCBs	Monthly
x.	Verification of progress and reporting by third parties to SPCBs/ CPCB	Quarterly
xi.	Upgradation/ modification and augmentation of ETP upto tertiary treatment level	March 31, 2016
xii.	Compliance with the treated effluent discharge norms as prescribed under the Charter	March 31, 2016
xiii.	Compliance with the short term targets of fresh water consumption and effluent generation norms through implementation of desired technologies prescribed under the Charter	March 31, 2016
xiv.	Compliance with the long term targets of fresh water consumption and effluent generation norms through implementation of desired technologies prescribed under the Charter	March 31, 2017
xv.	Setting up of projects/ infrastructure for utilisation of treated effluent, meeting with irrigation water quality norms, for irrigation within the command area as per the irrigation management plan, to achieve zero effluent discharge to river streams	March 31, 2017

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**SPCB shall modify will modify within 15 days the existing 'Consent to Operate' issued to the Unit and link the implementation of the above mentioned activities/ action points within the prescribed time limit with the 'Consent to Operate'. In case of non-compliance/ non-adherence by the Units with the prescribed activities & the time schedule, the 'Consent to operate' issued to the Unit shall stand withdrawn.**

#### **Black Liquor Management:**

2. Pulp & Paper industrial units shall ensure that no black liquor is discharged from the Unit's premises with immediate effect as already directed by CPCB vide directions no. B-23012/1/PCI-III, dated 27/11/2014. **In case of any discharge of black liquor from the Unit, the 'Consent to operate' issued to the Unit shall stand withdrawn.**
3. All Pulp & Paper industrial Units which do not have either operational chemical recovery plants (CRPs) (individual) or membership of operational common CRPs, shall be directed to dismantle and remove chemical pulping facilities, namely digesters, pulp washing systems, etc. from their premises with immediate effect as already directed by CPCB vide directions no. B-23012/1/PCI-III, dated 27/11/2014. **In case any Unit fails to dismantle their chemical pulping facilities, SPCB shall dismantle the same before March 31, 2015 and recover five times the cost of such dismantling.**
4. Agro based Pulp & Paper Mills shall be directed to properly operate CRPs (individual/ common), maintain records and report to their respective SPCB as per the "Protocol for operation of CRP" as prescribed under the Charter. SPCB shall carry out extensive monitoring of operational status of CRPs and in case of irregular/ non operation of CRPs, the 'Consent to Operate' issued to the Unit shall stand withdrawn. SPCB shall forward the details of operational status of CRPs operating in their State to CPCB on monthly basis.

#### **Monitoring & Surveillance**

5. Pulp & Paper industrial Units operating in your State shall be directed to submit a time bound action plan as an affidavit to achieve the targets as mentioned at para 1 (a) and 1 (b) (i to xv) of this directions towards their commitment for implementation of the Charter and to comply with the prescribed norms as prescribed in the Annexure-I, so as to accomplish the following objectives.

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<b>Monitoring Parameters</b>	<b>Reduction during first year (by March 2016) (%)</b>	<b>Cumulative reduction during second year (by March 2017) (%)</b>
Black Liquor Discharge	100%	-
Reduction in fresh water consumption	50%-70%	60%-75%
Reduction in effluent generation	50% - 70%	60-75%
Reduction in pollution loads in terms of TSS, BOD, COD	40-70%	40-70%
Reduction in colour wastewater discharge	80-90%	80-90%

In case any Unit fails to submit their affidavit by March 31, 2015, the 'Consent to Operate' issued to the Unit shall stand withdrawn.

6. SPCB shall ensure proper implementation of the Charter by the Pulp & Paper industrial Units operating in their State, co-ordinate with third parties and shall review the progress from time to time and forward action taken report/ progress on quarterly basis to CPCB.
7. SPCB shall amend within 15 days the existing 'Consent to Operate' issued under the Water Act, 1974 and the Air Act, 1981 to Pulp & Paper industries operating in their State, and shall link the 'Consent to Operate' with time bound compliance of plan of activities, fresh water consumption norms, effluent generation norms, treated effluent discharge norms as prescribed under the Charter, and individual action plans submitted by the industry to implement the desired technologies as prescribed under the Charter. SPCB shall review the progress of implementation of the Charter on monthly/ quarterly basis and shall withdraw the Consent issued to the industry in case of significant violation/ non-compliance/ non-adherence with the time schedule as prescribed under the Charter.
8. SPCB shall carry out monitoring and surveillance activities to ensure compliance with the industry specific effluent discharge/ emission standards notified under the Environment (Protection) Rules, 1986 till commissioning of upgraded/ augmented ETP system as per the time schedule prescribed under the Charter and thereafter compliance with norms prescribed under the Charter; and Pulp & Paper industrial units will not be allowed, under any circumstances, for bypassing of ETP systems and discharge of partially/ untreated effluent or episodic discharge. SPCB shall take appropriate action as per the provisions of the Water/ Air Acts and the Environment (Protection) Act, 1986 in case of any serious/ significant violation of the prescribed norms by the Pulp & Paper industrial Units and the 'Consent to Operate' shall stand withdrawn. These directions and Charter directed for implementation shall by no means prohibit CPCB ad SPCBs to take action as required.

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9. SPCB shall be part of the implementation programme of the Charter and shall carry out following activities as envisaged under the programme:
- a. Participation in evaluation & validation of the status assessment reports, action plan for process/ ETP up-gradation;
  - b. Co-ordinate with Pulp & Paper industrial Units, Third Parties/ Experts, and CPCB;
  - c. Organising/ participation in review meetings;
  - d. Organising surprise monitoring and participation in joint monitoring; and
  - e. Submission of progress reports on quarterly basis regarding implementation status of the Charter to CPCB; submission of monthly report on operational status of CRPs to CPCB;
  - f. Prepare inventory of Pulp & Paper Mills operating in their State and forward to CPCB;
  - g. Modify the 'Consent to Operate' issued under the Water/ Air Acts to all the Pulp & Paper mills, in compliance of these directions and forward to CPCB;
  - h. Plan and secure execution of project/ infrastructure for utilisation of treated effluent, meeting with irrigation water quality norms, for irrigation as per the irrigation management plan, to achieve zero effluent discharge to river streams.

The action taken report shall be submitted by SPCB to CPCB within 10 days from the date of receipt of these directions along with a time bound action plan for compliance of the directions. SPCB/ PCC shall also acknowledge the receipt of these directions to CPCB by return fax.

**(Shashi Shekhar)**  
**Chairman**

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Copy to:

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5. The Incharge, IT Division, CPCB
6. The Incharge, NGRBA Cell, CPCB
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**Member Secretary**