

SPEED POST

B-29016/04/06/PCI-I/

5401

February 05, 2014

To

The Chairman  
All SPCBs/PCCs (as per list enclosed)

**SUB: DIRECTIONS UNDER SECTION 18(1)(b) OF THE WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974 and THE AIR (PREVENTION & CONTROL OF POLLUTION) ACT, 1981 IN THE MATTER OF POLLUTION CONTROL IN 17 CATEGORY OF HIGHLY POLLUTING INDUSTRIES , CETPs AND COMMON HAZRDOUS WASTE & BIOMEDICAL WASTE INCINERATORS- REGARDING SELF MONITORING OF COMPLIANCE**

WHEREAS, under Section 17 of the Water (Prevention & Control of Pollution) Act, 1974, and under Section 17 of the Air (Prevention & Control of Pollution) Act, 1981, one of the function of the State Pollution Control Boards(SPCBs)/Pollution Control Committees(PCCs) is to plan a comprehensive programme for the prevention, control or abatement of pollution of streams, wells and air pollution in the State/Union territory and to secure the execution thereof; and

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

WHEREAS, the SPCBs and PCCs are empowered to stipulate standards for discharge of environmental pollutants for various categories of industries and common effluent treatment plants (CETPs) , Common Hazardous waste and Biomedical waste incinerators even more stringent than those notified by the Central Government, under the Environmental (Protection) Act, 1986 and rules framed there under; and

WHEREAS, Pharmaceuticals, Chlor Alkali, Fertilizers, Oil Refinery, Dye and dye intermediate, Pesticides, Petrochemical, Large Power plants, Cement, Aluminium, Zinc, Copper, Iron & steel, Large Pulp & paper, Distillery, Sugar and Tannery industries located in States/UTs have been discharging environmental pollutants directly or indirectly into the ambient air and water, which pose constant threat to cause adverse effect on the water and air quality ; and

WHEREAS, Common Hazardous waste and Biomedical waste incinerators and Common Effluent Treatment Plants(CETPs) located in States/UTs have been discharging environmental pollutants directly or indirectly into the ambient air and water; and

WHEREAS, the SPCBs and PCCs are also required to ensure installation and regular operation of the requisite pollution control facilities in the polluting industries; and

WHEREAS, there is need to inculcate habit of self monitoring mechanism within the industries for complying the prescribed standards and this can be achieved by the methods like installing online effluent and emission monitoring devices; and

WHEREAS, number of industries (as per list) under 17 category (Annexure-I) which are operating in the state/UT have been identified can be suitably directed for installation and commissioning of online monitoring systems (emission and or effluent); and

WHEREAS, number of Common Hazardous waste and Biomedical waste incinerators and CETPs operating in the state/UT (as per list) can also be considered for installation and commissioning of online monitoring systems (emission and or effluent);and

WHEREAS, for strengthening the monitoring and compliance through self regulatory mechanism ,online source and effluent monitoring systems need to be

installed and operated by the developers and the industries on 'polluter pays principle' ;and

WHEREAS, some of the SPCBs have already given specific conditions in consent to operate of 17 categories of highly polluting industries/ and Common Hazardous waste and Biomedical waste incinerators to install continuous emission and effluent monitoring systems; and

WHEREAS, it is envisaged in "National Environment Policy- 2006" that to strengthen the testing infrastructure and network for monitoring ambient environmental quality and progressively ensure real-time, and online availability of the monitoring data; and

WHEREAS, CPCB had earlier issued letter dated January 12,2011 to SPCBs /PCCs to direct all the 17 categories of highly polluting industries to install automatic air and water quality stations to monitor the ambient quality; and

WHEREAS ,it is becoming a need and necessity to regulate and minimize inspection of industries on routine basis and instead efforts need to be made to bring self discipline in the industries to exercise self monitoring & compliance and transmit data of effluent and emission compliance to SPCBs/PCCs and to CPCB on continuous basis; and

WHEREAS, there could be some time needed for getting such devices standardised and requiring confidence on data generated but needless to emphasize that efforts towards setting up to continuous monitoring devices is essential; and

WHEREAS, the ground truthing of the values indicated by the online devices need to be done before bringing them in public domain for proper interpretation and such measures need to be taken at the level of SPCBs/PCCs .And whereas for regulatory purposes and for purposes of actions to be taken against non complying industries /facilities, the existing methods of sampling,

analysis and related procedures under the existing statutes need to be continued; and

WHEREAS, SPCBs and PCCS have prescribed standards for various parameters as per the notified standards under Environment(Protection) Act,1986 and the State Boards may refer to the parameters which should be monitored by installing continuous effluent and emission monitoring devices(Annexure -II);and

Whereas, continuous effluent and emission monitoring devices can be installed in those industries which are continuously letting out effluents and emissions out of their premises: and

Now, therefore, in exercise of the powers conferred under Section 18 (1) (b) of the Water (Prevention & Control of Pollution) Act, 1974, and 18 (1) (b) of the Air (Prevention & Control of Pollution) Act, 1981 and keeping in view strengthening of the monitoring mechanism for effective compliance through self regulatory mechanism,you are directed to issue the following directions to all the industries under 17 categories of highly polluting industries, and CETPs, Common Hazardous waste and Biomedical waste incinerators:

- a. To Install online continuous Stack Emission Monitoring Systems (CSEMS) in 17 categories of highly polluting industries and in Common Hazardous waste and Biomedical waste incinerators for the parameters(industry/sector specific parameter) mentioned in the consent to operate/authorisation not later than by March 31,2015;
- b. To install online effluent quality monitoring system at the outlet of effluent treatment plants of the 17 category industries and in CETPs for the measurement of the parameters(industry/sector specific parameter) like flow, pH, COD, BOD, TSS and for other consented parameters as per the guidelines provided; not later than by March 31, 2015;
- c. To connect and upload the online emission and effluent monitoring data at SPCBs/PCCs and CPCB server in a time bound manner but not later than by March 31,2015;

- d. To ensure regular maintenance and operation of the online system with temper proof mechanism having facilities for online calibration;
- e. To submit bank guarantee of 25 % of the cost of online monitoring systems (emission and effluent whichever applicable) for ensuring timely installation of online monitoring systems within 90 days from the date of receipt of directions issued by SPCBs/PCCs to the industries;

The SPCB shall install the necessary software and hardware in their headquarter for centralized data collection, analysis and corrective action .The action taken report along with time bound action plan for each industry under the 17 category of industry and CETPs, Common Hazardous waste and Biomedical waste incinerators for installation of online monitoring systems (emission and or effluent) shall be submitted to the Central Pollution Control Board within 120 days from the date of receipt of these directions.

  
(Susheel Kumar)  
Chairman

**Copy to:**

1. The Advisor(CP Division)  
Ministry of Environment & Forests  
Paryavaran Bhawan  
CGO Complex, Lodi Road  
New Delhi - 110 003
2. I/C PCI-I,II,III and HWMD
3. All Zonal Officer ,CPCB
4. ✓ I/c IT Division, CPCB
5. I/c. ESS, CPCB

  
(Susheel Kumar)

**State/UT wise List of CETP/ Common Hazardous Waste and Bio medical Waste Incinerators**

| S. No. | State/ UT                            | CETP       | Common Hazardous Waste incinerator | Bio medical waste incinerator | Total      |
|--------|--------------------------------------|------------|------------------------------------|-------------------------------|------------|
| 1.     | Andhra Pradesh                       | 6          | 2                                  | 15                            | 23         |
| 2.     | Assam                                | -          | -                                  | 5                             | 5          |
| 3.     | Bihar                                | -          | -                                  | 2                             | 2          |
| 4.     | Chandigarh                           | -          | -                                  | 1                             | 1          |
| 5.     | Chhattisgarh                         | -          | -                                  | 6                             | 6          |
| 6.     | Daman & Diu and Dadra & Nagar Haveli | -          | 1                                  | 1                             | 2          |
| 7.     | Delhi                                | 13         | -                                  | 3                             | 16         |
| 8.     | Gujarat                              | 27         | 5                                  | 13                            | 45         |
| 9.     | Haryana                              | 13         | 1                                  | 7                             | 21         |
| 10.    | Himachal Pradesh                     | -          | -                                  | 2                             | 2          |
| 11.    | J&K                                  | 1          | -                                  | 2                             | 3          |
| 12.    | Jharkhand                            | -          | -                                  | 1                             | 1          |
| 13.    | Karnataka                            | 9          | 5                                  | 15                            | 29         |
| 14.    | Kerala                               | 3          | -                                  | 1                             | 4          |
| 15.    | Madhya Pradesh                       | 1          | 1                                  | 15                            | 17         |
| 16.    | Maharashtra                          | 27         | 3                                  | 34                            | 64         |
| 17.    | Meghalaya                            | -          | -                                  | 1                             | 1          |
| 18.    | Odisha                               | -          | -                                  | 6                             | 6          |
| 19.    | Puducherry                           | -          | -                                  | 1                             | 1          |
| 20.    | Punjab                               | 4          | -                                  | 4                             | 8          |
| 21.    | Rajasthan                            | 14         | 1                                  | 12                            | 27         |
| 22.    | Tamilnadu                            | 49         | 1                                  | 10                            | 60         |
| 23.    | Tripura                              | -          | -                                  | 1                             | 1          |
| 24.    | Uttarakhand                          | 3          | 1                                  | 1                             | 5          |
| 25.    | Uttar Pradesh                        | 4          | 3                                  | 13                            | 20         |
| 26.    | West Bengal                          | 1          | 1                                  | 7                             | 9          |
|        | <b>Total</b>                         | <b>175</b> | <b>25</b>                          | <b>179</b>                    | <b>379</b> |

Annexure-II

| Sl No | Category                 | Effluent Parameters                | Emission Parameters                         |
|-------|--------------------------|------------------------------------|---------------------------------------------|
| 1.    | Aluminium                | pH, BOD, COD, TSS                  | PM, Fluoride                                |
| 2.    | Cement                   | pH, BOD, COD, TSS                  | PM, NO <sub>x</sub> , SO <sub>2</sub>       |
| 3.    | Distillery               | pH, BOD, COD, TSS                  | PM                                          |
| 4.    | Dye and dye intermediate | pH, BOD, COD, TSS, Cr              | -                                           |
| 5.    | Chlor Alkali             | pH, BOD, COD, TSS                  | Cl <sub>2</sub> , HCl                       |
| 6.    | Fertilizers              | pH, BOD, COD, TSS, Ammonia         | PM, Fluoride, Ammonia                       |
| 7.    | Iron & steel             | pH, BOD, COD, TSS                  | PM, SO <sub>2</sub>                         |
| 8.    | Oil refinery             | pH, BOD, COD, TSS                  | PM, CO, NO <sub>x</sub> , SO <sub>2</sub>   |
| 9.    | Petrochemical            | pH, BOD, COD, TSS                  | PM, CO, NO <sub>x</sub> , SO <sub>2</sub> , |
| 10.   | Pesticides               | pH, BOD, COD, TSS, Cr, As          | -                                           |
| 11.   | Pharmaceuticals          | pH, BOD, COD, TSS, Cr, As          | -                                           |
| 12.   | Power Plants             | pH, BOD, COD, TSS                  | PM, NO <sub>x</sub> , SO <sub>2</sub>       |
| 13.   | Pulp & paper             | pH, BOD, COD, TSS, AO <sub>x</sub> | -                                           |
| 14.   | Sugar                    | pH, BOD, COD, TSS                  | -                                           |
| 15.   | Tannery                  | pH, BOD, COD, TSS                  | -                                           |
| 16.   | Zinc                     | pH, BOD, COD, TSS                  | PM SO <sub>2</sub>                          |
| 17.   | Copper                   | pH, BOD, COD, TSS                  | PM SO <sub>2</sub>                          |

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**List of SPCBs/ PCCs**

| <b>Sl. No.</b> | <b>State/ UT</b>                                                                                                                                                                              |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.             | The Chairman<br>A.P. Pollution Control Board<br>Paryavaran Bhawan<br>Industrial Estate, Sanath Nagar<br>Hyderabad – 500 038                                                                   |
| 2.             | The Chairman<br>Arunachal Pradesh Pollution Control Board<br>Office of Principal Chief Conservator of Forests<br>and<br>Secretary (E & F)<br>Govt. of Arunachal Pradesh<br>Itanagar – 791 111 |
| 3.             | The Chairman<br>Assam State Pollution Control Board<br>Bamunimaidan<br>Guwahati – 781 021                                                                                                     |
| 4.             | The Chairman<br>Bihar State Pollution Control Board<br>IInd Floor, Beltron Bhawan<br>Jawaharlal Nehru Marg<br>Shastri Nagar, Patna – 800 023                                                  |
| 5.             | The Chairman<br>Chandigarh Pollution Control Committee<br>Additional Town Hall Bldg.<br>2 <sup>nd</sup> Floor, Sector 17-C<br>Chandigarh – 110 017                                            |
| 6.             | The Chairman<br>Chattisgarh State Env. Conservation Board<br>Nanak Niwas, Civil Lines<br>Raipur, Chattisgarh – 492 001                                                                        |
| 7.             | The Chairman<br>Daman, Diu, Dadra & Nagar Haveli Pollution<br>Control Committee<br>Office of the Dy. Conservator of Forests<br>Moti Daman, Daman – 396 220                                    |
| 8.             | The Chairman<br>Delhi Pollution Control Committee<br>6th level, B-wing, Delhi Secretariat<br>IP Estate, New Delhi – 110 002                                                                   |
| 9.             | The Chairman<br>Goa State Pollution Control Board<br>Dempo Tower, 1 <sup>st</sup> Floor<br>Patto Plaza, Panaji<br>Goa – 403 001                                                               |
| 10.            | The Chairman<br>Gujarat State Pollution Control Board<br>Sector 10-A<br>Gandhi Nagar – 382 043                                                                                                |



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| 11. | The Chairman<br>Haryana State Pollution Control Board<br>C-11, Sector – 6<br>Panchkula, Haryana                                                                                                                          |
| 12. | The Chairman<br>H.P. State Environment Protection and<br>Pollution Control Board<br>Paryavaran Bhawan<br>Phase-III, Below BCS<br>New Simla – 171 009                                                                     |
| 13. | The Chairman<br>J & K State Pollution Control Board<br>Super Bazar Building,<br>3 <sup>rd</sup> Floor, City Chowk<br>Jammu                                                                                               |
| 14. | The Chairman<br>Jharkhand Pollution Control Board<br>TA Building, HEC Campus<br>At + P.O. – Dhurba<br>Ranchi                                                                                                             |
| 15. | The Chairman<br>Karnataka State Pollution Control Board<br>6, 7, 8 & 9 <sup>th</sup> Floors<br>Public Utility Building, MG Marg<br>Bangalore – 560 001                                                                   |
| 16. | The Chairman<br>Kerala State Pollution Control Board<br>Plamoodu Junction<br>Pattam Palace P.O.<br>Thiruvananthapuram – 695 004                                                                                          |
| 17. | The Chairman<br>M.P. State Pollution Control Board<br>Paryavaran Parisar<br>E-5, Arera Colony<br>Bhopal – 462 016                                                                                                        |
| 18. | The Chairman<br>Maharashtra State Pollution Control Board<br>Kalpataru Point, 3 <sup>rd</sup> & 4 <sup>th</sup> floors<br>Sion Matunga Scheme, Road No. 8<br>Opp. Cine Planet, Sion Circle, Sion (E)<br>Mumbai – 400 022 |
| 19. | The Chairman<br>Meghalaya State Pollution Control Board<br>Arden, Lumbyngngad<br>Shillong – 793 014                                                                                                                      |
| 20. | The Chairman<br>Mizoram State Pollution Control Board<br>M.G. Road, Khatna<br>Aizwal                                                                                                                                     |
| 21. | The Chairman<br>Orissa State Pollution Control Board                                                                                                                                                                     |

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|     | A-118, Nilkanta Nagar, Unit – VIII<br>Bhubaneswar – 751 012                                                                                                                                         |
| 22. | The Chairman<br>Pondicherry Pollution Control Committee<br>Department of Science<br>Technology & Environment<br>Housing Board Complex<br>3 <sup>rd</sup> Floor, Anna Nagar<br>Pondicherry – 600 005 |
| 23. | The Chairman<br>Punjab State Pollution Control Board<br>Vatavaran Bhawan, Nabha Road<br>Patiala – 147 001                                                                                           |
| 24. | The Chairman<br>Rajasthan State Pollution Control Board<br>A-4, Jalane Dungri Institutional Area<br>Jaipur – 302 004                                                                                |
| 25. | The Chairman<br>Sikkim State Pollution Control Board<br>State Land Use & Environment Cell<br>Govt. of Sikkim, Deorali<br>Gangtok, Sikkim                                                            |
| 26. | The Chairman<br>Tamilnadu State Pollution Control Board<br>No. 100, Anna Salai<br>Guindy, Chennai – 600 032                                                                                         |
| 27. | The Chairman<br>Tripura State Pollution Control Board<br>Vigyan Bhawan, Pt. Nehru Complex<br>Gorkhabasti P.O., Kunjaban<br>Agartala (W) – 799 006                                                   |
| 28. | The Chairman<br>Uttarakhand Environment Protection &<br>Pollution Control Board<br>29/20, Nemi Road, Dehradun, Uttarakhand"<br>Pincode- 24800                                                       |
| 29. | The Chairman<br>U.P. State Pollution Control Board<br>3 <sup>rd</sup> Floor, PICUP Bhawan<br>Vibhuti Khand, Gomti Nagar<br>Lucknow – 226 020                                                        |
| 30. | The Chairman<br>West Bengal State Pollution Control Board<br>Paribesh Bhawan<br>10A, Block LA, Sector 3, Salt Lake City<br>Kolkata – 700 091                                                        |