



केन्द्रीय प्रदूषण नियंत्रण बोर्ड  
CENTRAL POLLUTION CONTROL BOARD  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार  
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

MOST URGENT  
HON'BLE NGT MATTER

F. No. B-29016/CS(16)-NGT/2019/WM-I/

October 16, 2020

Sub: Minutes of the meeting with SPCBs/PCC, held on 02.09.2020 to review the compliance status of Hon'ble NGT in the matter of O.A. No. 804 of 2017 order dated 01.07.2020 (uploaded dated 07.07.2020); Rajiv Narayan & Anr. Vs. Uol & Ors w.r.t contaminated sites in India – reg

Sir/Madam,

This has reference to the meeting with SPCBs/PCC held through VC on 02.09.2020 to review the compliance of Hon'ble NGT order dated 01.07.2020 (uploaded on 07.07.2020) in the matter of the O.A. No. 804 of 2017, regarding contaminated sites. In this regard, please find enclosed minutes of the meeting containing observations and recommendations of CPCB for ready reference.

It is requested to kindly expedite the follow-up action for assessment and remediation of contaminated sites in the State/UT and furnish the compliance reports on or before 31.10.2020. List of contaminated sites pertaining to respective States/UT is also enclosed for information and reference.

Yours faithfully,

(B. Vinod Babu)

Addl. Director & Head,  
Waste Management Division-I

Encl.: As above

To,

1. The Member Secretary  
Andhra Pradesh Pollution Control Board  
D.No. 33-26-14 D/2, Near Sunrise Hospital,  
Pushpa Hotel Centre, Chalamvari Street,  
Kasturibaipet, Vijayawada – 520 010
2. The Member Secretary  
Pollution Control Board Assam  
Bamunimaiden, Guwahati – 781 021
3. The Member Secretary  
Chhattisgarh Environment Conservation Board  
Paryavas Bhawan, North Block Sector-19,  
Naya Raipur (C.G.)- 490099
4. The Member Secretary  
Delhi Pollution Control Committee  
4th Floor, ISBT Building,  
Kashmere Gate,  
Delhi-110006

5. The Member Secretary  
Goa Pollution Control Board  
Near Pilerne Industrial Estate,  
Oppo. Saligao Seminary, Saligaon-Bardez  
Goa - 403511
6. The Member Secretary  
Gujarat Pollution Control Board  
Paryavaran Bhawan Sector 10-A,  
Gandhi Nagar – 382 043
7. The Member Secretary  
Himachal Pradesh Pollution Control Board  
Him Parivesh Phase-III, Below BCS,  
New Simla A-9 – 171 009
8. The Member Secretary  
Haryana Pollution Control Board  
C-11, Sector-6 Panchkula, Chandigarh  
Haryana-134109
9. The Member Secretary  
Jharkhand State Pollution Control Board  
T.A. Building, HEC, P.O. Dhurwa,  
Ranchi-834 004
10. The Member Secretary  
Kerala Pollution Control Board  
Pattom P.O. Thiruvananthapuram-695004
11. The Member Secretary  
Karnataka State Pollution Control Board  
Parisara Bhawan, 1st to 5th Floor,  
# 49, Church Street,  
Bengaluru-560001
12. The Member Secretary  
Maharashtra Pollution Control Board  
Kalptaru Point, 3rd & 4th floor,  
Opp. Cine Planet, Sion Circle,  
Mumbai-400 022.
13. The Member Secretary  
Madhya Pradesh Pollution Control Board  
Paryavaran Parisar, Sector E-5,  
Arera Colony, Bhopal – 462 016
14. The Member Secretary  
State Pollution Control Board Odisha  
Paribesh Bhawan, A-118,  
Nilakantha Nagar, Unit-VIII  
Bhubaneswar – 751 012

15. The Member Secretary  
Punjab Pollution Control Board  
Vatavaran Bhawan, Nabha Road  
Patiala – 147 001
16. The Member Secretary  
Rajasthan State Pollution Control Board  
4, Jalana Doongri Institutional Area  
Jaipur Rajasthan – 302 004
17. The Member Secretary  
Telangana Pollution Control Board  
Paryavaran Bhawan, A-III  
Institutional Estate, Sanathnagar  
Hyderabad – 500018.
18. The Member Secretary  
Tamil Nadu Pollution Control Board  
76, Mount Salai, Guindy,  
Chennai – 600 032
19. The Member Secretary  
Uttar Pradesh Pollution Control Board  
Building No. TC-12V  
Vibhuti Khand, Gomti Nagar  
Lucknow – 226 010
20. The Member Secretary  
Uttarakhand Pollution Control Board  
6B, IT Park, Sahastradhara Road, Uttarakhand.
21. The Member Secretary  
West Bengal Pollution Control Board  
Paribesh Bhawan, 10A, Block- LA,  
Sector III, Salt Lake City,  
Calcutta – 700 106

**Minutes of Interaction Meeting with SPCBs/PCC to review the compliance status of Hon'ble NGT in the matter of O.A. No. 804 of 2017 order dated 01.07.2020 (uploaded dated 07.07.2020); titled as Rajiv Narayan & Anr. Vs. UoI & Ors w.r.t contaminated sites in India**

In compliance of Hon'ble NGT order dated 01.07.2020 (uploaded on 07.07.2020) in the matter of the O.A. No. 804 of 2017, regarding contaminated sites, a meeting with concerned officials of SPCBs/PCC was held through VC on 02.09.2020 to review the compliance status. The meeting was chaired by Head, Waste Management Division-I, CPCB. Meeting was attended by Member Secretaries/Senior officials of SPCBs/PCC namely; Andhra Pradesh, Assam, Chattisgarh, Delhi, Goa, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Telangana, Uttar Pradesh, Uttarakhand & West Bengal and dealing officials of CPCB. List of participants is given at Annexure-I.

After briefing on agenda of the meeting, a presentation was made by CPCB on status of compliance to action points specified in orders passed by Hon'ble NGT with respect to identification, assessment and remediation of contaminated sites. Subsequently, State specific status was discussed as below:

1. **Andhra Pradesh:** There are 03 sites identified as Probable contaminated sites (PCS) in AP. APPCB has informed that re-sampling activity has been initiated. CPCB has requested APPCB to enlist the premises of M/s LG Polymer, Visakhapatnam, AP and its adjoining discharge streams as probable contaminated sites for styrene .
2. **Assam:** There are 04 sites in Assam; wherein, 02 sites identified as PCS and other 02 sites as contaminated sites (CS). APCB has informed that re-sampling activity has been initiated.
3. **Chattisgarh:** There are 05 sites in Chattisgarh; wherein, 03 sites identified as PCS and other 02 sites as CS. Chhattisgarh Environment Conservation Board (CECB) has communicated action taken reports for said 05 probable/contaminated sites vide its email dated 13.07.2020. It was suggested that CECB may carry out preliminary site investigation including sampling of all possible matrix and furnish Inspection reports with analysis reports of chemicals of concern (CoCs) along with general parameters and heavy metals.
4. **Delhi:** There are 26 sites in Delhi; wherein 14 sites identified as PCS and other 12 sites as CS. During the meeting, DPCC informed that the following:

- i) 02 probable sites were reported as repeat;

1.	Road side and in front of A-5, Lawrence road industrial area, New Delhi-110035
2.	Road side & in front of C-58/1, Essco Sanitations, National Capital Territory (Delhi) Wajirpur Industrial Area-110052

- ii) 01 contaminated site (at S. No. 1), namely: 'Mandoli & Seelampur E-Waste site' falls under UP state.

Hence, requested that aforesaid 03 sites may be considered for de-listing.

DPCC yet to complete inspection of remaining identified sites with adequate analysis of soil/sediment/groundwater. It was requested that DPCC may submit a report supported with analysis results and photographs as per CPCB's Reference document on 'Identification, Inspection and Assessment of Contaminated Sites'.

5. **Goa:** There are 02 sites identified as CS in Goa. Goa PCB has informed that waste has been lifted from one of the said sites, i.e. Quarry located at Village Pilium of Dhar Bandora. However, it was suggested that investigation of said site is needed to ascertain the level of residual contamination in soil and groundwater. In case of other site, Goa PCB has informed that re-sampling activity has been initiated.
6. **Gujarat:** There are 23 sites; wherein 15 sites identified as PCS and other 08 sites as CS in Gujarat. Gujarat PCB has requested to consider their previous site reports supported with analysis results. However, GSPCB was informed that following gaps have been observed in said reports:
  - i) Sampling of groundwater/surface water/sediment is not carried out,
  - ii) Analysis report awaited for few sites,
  - iii) Heavy metals in soil were analysed by using TCLP extraction method, where as threshold values need to be reported.

Therefore, it was requested to revise site wise investigation report supported with information as per prescribed format given in CPCB's Reference document on 'Identification, Inspection and Assessment of Contaminated Sites'.

7. **Himachal Pradesh:** There are 06 sites in HP; wherein 05 sites identified as PCS and other 01 site as CS. In this regard, HPPCB has informed that waste has been removed from all of the sites and disposed off to TSDF. Further, HPPCB requested to consider their latest site-wise inspection report along with analysis results.
8. **Haryana:** There are 17 sites in Haryana; wherein 13 sites identified as PCS and other 04 sites are as CS. Haryana SPCB has informed that re-sampling activity has been initiated as per CPCB's Reference document on 'Identification, Inspection and Assessment of Contaminated Sites'.
9. **Jharkhand:** There are 14 sites in Jharkhand; wherein 12 sites identified as PCS and other 02 sites are as CS. In case of contaminated site at Roro hills; Jharkhand, SPCB has informed that detailed investigation report on "Rehabilitation of Roro abandoned asbestos mines" along with remediation status was submitted and informed that remedial action has been taken by Dept. of Mining, Jharkhand. In this regard, Jharkhand SPCB was requested to submit present status of remediation works carried out so far. For remaining sites, Jharkhand SPCB has informed that re-sampling activity has been initiated, as per CPCB's Reference document on 'Identification, Inspection and Assessment of Contaminated Sites'.

10. **Karnataka:** There are 25 sites in Karnataka; wherein, 09 sites identified as PCS and other 06 sites are as CS. Karnataka SPCB has informed that re-sampling activity has been initiated as per CPCB's Reference document on 'Identification, Inspection and Assessment of Contaminated Sites'.

11. **Kerala:** There are 10 sites in Kerala; wherein 06 sites identified as PCS and other 04 sites are as CS. As informed by Kerala SPCB, some GPS co-ordinates are mismatched with provided list of the sites. In this regard, it was suggested to follow the address and update GPS co-ordinates accordingly. In case of CS at Kuzikundam Thodu (Creak), Eloor, Kerala SPCB informed that tendering process is under progress to execute remediation work. In case of CS at Edyaar, Kerala SPCB was requested to issue direction to responsible to remediate the contaminated sites; else, environmental compensation may have to be paid at the rate of Rs. 10 lakh per site as per Hon'ble NGT order dated 26.08.2019.

12. **Madhya Pradesh:** There are 20 sites in MP; wherein 16 sites identified as PCS and other 04 sites are as CS. In this regard, MPPCB has informed that they had submitted site wise inspection report along with analysis results. However, it was informed that the reports have following gaps:

- i) Sampling of groundwater/surface water/sediment is not carried out,
- ii) Heavy metals in soil were analysed by using TCLP extraction method instead of total threshold values in mg/kg.

Therefore, MPPCB is requested to revise site wise investigation reports as per the format given in Reference document on 'Identification, Inspection and Assessment of Contaminated Sites' prepared by CPCB.

13. **Maharashtra:** There are 06 sites in Maharashtra; wherein 03 sites identified as PCS and other 03 sites are as CS. In this regard, Maharashtra PCB has informed that assessment work has been awarded to CSIR-NEERI, Nagpur. Therefore, MPCB was requested to revise site wise investigation reports as per the formats prescribed in CPCB's Reference document on 'Identification, Inspection and Assessment of Contaminated Sites'.

14. **Odisha:** There are 32 sites in Odisha; wherein, 09 sites identified as PCS and other 23 sites are as CS. Odisha SPCB has informed the following:

- i) Preliminary assessment was completed for all sites.
- ii) For mercury contaminated site at Ganjam, remediation work is initiated.
- iii) For chromium contaminated site at Talcher, no progress report is obtained regarding disposal of wastes from the site. In this regard, CPCB requested to OSPCB to issue direction to polluter industry; else, environmental compensation may be levied at the rate of Rs. 10 lakh as per Hon'ble NGT order dated 26.08.2019.

- iv) For remaining sites, OSPCB has informed that re-sampling activity has been initiated, as per CPCB Reference document on 'Identification, Inspection and Assessment of Contaminated Sites'.
- 15. Punjab:** There are 09 sites in Punjab; wherein 03 sites identified as PCS and other 06 sites are as CS. Punjab PCB has informed that re-sampling activity has been initiated as per CPCB's Reference document on 'Identification, Inspection and Assessment of Contaminated Sites'.
- 16. Rajasthan:** There are 11 sites in Rajasthan; wherein, 09 sites identified as PCS and other 02 sites are as CS. No information was received till date. In this regard, Rajasthan SPCB informed that RSPCB has been initiated the sampling activity as per CPCB's Reference document on 'Identification, Inspection and Assessment of Contaminated Sites'.
- 17. Tamil Nadu:** There are 11 sites in TN; wherein 05 sites identified as PCS and other 06 sites are as CS. TNPCB has informed the following:
- i) TNPCB informed that assessment work was initiated as per CPCB's Reference document on 'Identification, Inspection and Assessment of Contaminated Sites'.
  - ii) For mercury contaminated site at Kodaikanal, remediation work is about to start.
  - iii) For BPCL oil-contaminated site at Tondiarpet, remediation work is on-going.
- For chromium contaminated site at Ranipet, no information is received regarding lifting/disposal of wastes from the site. CPCB requested TNPCB to follow-up the matter with State governemen for execution of DPR prepared under NCEF Project.
- 18. Telangana:** There are 09 sites in Telengana; wherein 07 sites identified as PCS and other 02 sites are as CS. TSPCB has informed that re-sampling activity has been initiated as per CPCB Reference document on 'Identification, Inspection and Assessment of Contaminated Sites',.
- 19. Uttarakhand:** There are 09 sites in Uttarakhand; wherein 08 sites identified as PCS and other 01 sites is as CS. Uttarakhand SPCB has informed that re-sampling activity has been initiated as per CPCB's Reference document on 'Identification, Inspection and Assessment of Contaminated Sites'.
- Further, 01 PCS (ref. S.No. 3), namely: 'Sansarpur Village, Chutmulpur Road, Saharanpur, Uttarakhand Pincode-247551' pertains to UP state. Hence, this site may transfer to UP-state. Therefore, the total no. of sites in UK is revised to 08.
- 20. Uttar Pradesh:** There are 42 sites in UP; wherein 17 sites identified as PCS and other 25 sites are as CS. Since 02 more sites are to be transferred from from Delhi (01 CS) & Uttarakhand (01 PCS), respectively and enlisted in UP state. Therefore, the total no. of sites is revised to 44. UPPCB has informed the following:

- i) For chromium contaminated sites at Lohianagar, remediation work is on-going and joint site-inspection regarding source identification may be done in association with RO-Ghaziabad.
- ii) For chromium contaminated sites at Rania, remediation work is awarded to UPSIDA and it will be start by this months.
- iii) For pesticide contaminated sites at Deva Road, no information is received regarding lifting/disposal of wastes from the site, for which CPCB requested UPPCB to consider appropriate direction to responsible industry; Further, environmental compensation may imposed at the rate of Rs. 10 lakh per site as per Hon'ble NGT order dated 26.08.2019.
- iv) As per CPCB Reference document on 'Identification, Inspection and Assessment of Contaminated Sites', UPPCB has informed that re-sampling activity has been initiated.

**21. West Bengal:** There are 07 sites in WB; wherein, 06 sites are identified as PCS and 01 site is as CS. For chromium contaminated site at Nibra, WBPCB informed that that remediation work is delayed due to COVID-19 pandemic. Further, WBPCB has informed that re-sampling activity at PCS is yet to be initiated.

#### Recommendations:

S. No.	Activity	Revised Target
i.	In case of Probable contaminated sites, SPCBs/PCC shall carry out Preliminary site investigation as per "Reference document on Identification, Inspection and Assessment of Contaminated Sites" prepared by CPCB.  Site investigation report shall be submitted to CPCB for further examination [as word (.docx) form] as per format prescribed in aforesaid Reference Document.	On or before 30th October, 2020
ii.	In case of contaminated sites, Action Plan to carry out Detailed investigation study may be submitted to CPCB.	On or before 30th October, 2020.
iii.	SPCBs/PCC shall carry out detailed site investigation, as per aforesaid "Reference Document" prepared by CPCB and "Guidance document on Assessment and Remediation of contaminated sites in India" issued by MoEF&CC.	In 2 months after acceptance on Action Plan by CPCB
iv.	Sites where DPR is required, SPCBs/PCC shall initiate preparation of DPR by engaging reputed remediation consultant with inimation to CPCB.	In 6 months after completion of detailed investigation study



S. No.	Activity	Revised Target
v.	Sites where DPR prepared, SPCBs/PCC shall execute remediation works by engaging reputed contractor with inimation to CPCB.	On or before 25 <sup>th</sup> November, 2020
vi.	SPCBs/PCC shall ensure lifting of hazardous waste still accumulated at sites, wherein DPRs already prepared under NCEF Project.	On or before 25 <sup>th</sup> November, 2020.
vii.	SPCBs/PCCs to ensure that the hazardous waste accumulated/lying at all such identified sites/any new sites shall be disposed off either through TSDF or on-site SLF on priority to stop further contamination. Wherein, HW is lifted/removed from such sites, SPCB/PCC shall carryout detailed investigation study followed by remediation, if needed ( <i>as specified above ii &amp; iii</i> )	On or before 15 <sup>th</sup> November, 2020.
viii.	SPCBs/PCC are requested to enlist new site if found any due to anthropogenis activity. Chemcials of Concerns (CoCs) may be decided based on site inspection/historical activity.	Quaterly status may be submitted to CPCB
ix.	The Committee for effective implementation of remediation plan at state level, Empowered Monitoring Committee chaired by Secretary, Environment Dept. having representatives from Industries Dept., SPCB/ PCC, CGW/SGWA, relevant Experts, etc. shall be constituted.	On or before 15 <sup>th</sup> November, 2020.

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**List of officials participated (through VC)**

**CPCB Officials**

1. Sh. B. Vinod Babu, Additional Director & Head, WMD-I, Delhi - Chaired the meeting
2. Sh. G. Rambabu, Scientist-D, WM-I, CPCB, Delhi
3. Dr. Gargi Biswas, RA, WM-I, CPCB, Delhi

**SPCB/PCC Officials**

1. Dr. D. N. Das, Member Secretary, Assam PCB
2. Ms. Shailaja Deval, IFS, Member Secretary, RSPCB
3. Sh. Ashish Tewari, Member Secretary, UPPCB
4. Mr. S.P. Subudhi, Member Secretary, UKPCB
5. Sh. P.K. Dutta, Executive Engineer, Assam PCB
6. Sh. M. Jadav, AEE, Haryana PCB
7. Sh. Utsab Sharma, AEE, RO (Ghaziabad), UPPCB
8. Sh. Nandkumar Gurav, SO, Maharashtra PCB
9. Sh. Ravindra Babu, EE, APPCB
10. Sh. D. M. Thaker, SEE, Gujarat PCB
11. Sh. Sh. T. K. Gupta, CEE, WBPCB
12. Sh. H. S. Malviya, SE, MPPCB
13. Dr. Manoj Chauhan, Sr. Scientific Officer, HPPCB
14. Sh. R. Kannan, ACEE, TNPCB
15. Ms. Sumithra, Kerala SPCB
16. Sh. Surinder Singh & Sh. Rajesh Kumar, SSO, PPCB
17. Sh. P.S. Pankaj, EE, DPCC
18. Sh. D. Narendar, SEE, Telangana SPCB
19. Dr. A. K. Swar, CEE, OSPCCB
20. Sh. P. C. Rauta, SEE, OSPCCB
21. Dr. Ram Karan, RO (Unnao), UPPCB
22. Sh. Vivek Rai, RO (Muzaffarnagar), UPPCB
23. Sh. A. K. Anand, RO (Kanpur-Dehat), UPPCB
24. Ms. V. Kathikeyan, EO, Karnataka PCB