



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/

March 23, 2021

Sub: Minutes of the meeting with SPCBs/PCC held on 16.03.2021 in compliance to the directions of Hon'ble NGT order dated 29.01.2021 in O.A. No. 804 of 2017 in the matter of Rajiv Narayan & Anr. Vs. Union of India & Ors; w.r.t Contaminated Sites – reg

Sir/Madam,

This has reference to the meeting with SPCBs/PCC held on 16.03.2021 through VC in compliance to the directions of the Hon'ble NGT in the matter of O.A. No. 804 of 2017 order dated 29.01.2021 regarding assessment and remediation of contaminated sites. In this regard, please find enclosed minutes of the meeting for necessary action.

In view of the above, it is requested to kindly arrange for initiating necessary action and furnish action plan on or before 05.04.2021.

(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 Meeting with SPCBs/PCC for compliance to the directions of Hon'ble NGT order dated 29.01.2021 in O.A. No. 804 of 2017 in the matter of Rajiv Narayan & Anr. Vs. Union of India & Ors; w.r.t Contaminated Sites in India held on 16.03.2021

In compliance of Hon'ble NGT order dated 29.01.2021 in O.A. No. 804 of 2017 in the matter of **Rajiv Narayan & Anr. Vs. Union of India & Ors**, regarding contaminated sites, a meeting with concerned senior officials of SPCBs/PCC was held through VC on 16.03.2021 to discuss the Action Plans. The meeting was chaired by Member Secretary, CPCB, Delhi.

Meeting was attended by Senior officials of SPCBs/PCC namely; Andhra Pradesh, Assam, Chhattisgarh, 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**.

Initiating the meeting, Member Secretary welcomed the participants. The concerned Division in CPCB briefed the agenda of the meeting, and made a presentation on action points to comply with various directions passed by Hon'ble NGT for identification, assessment and remediation of contaminated sites.

Subsequently, Member Secretary, CPCB requested SPCBs/PCCs to present status on implementation of Detailed Project Reports (DPRs) prepared under NCEF Project. Points of discussion given below:

1. **Kerala:** There are 03 contaminated sites for which DPRs have been prepared and forwarded the same to Government of Kerala and Kerala SPCB for execution of Remediation works.

a) With regard to execution of remediation works at Kuzikundam Thodu (Creak), Eloor; Kerala SPCB informed that tendering process is under way.

In this regard, it was suggested that Kerala SPCB need to facilitate the Supervised Committee constituted by Hon'ble NGT (SZ) in OA No. 561 of 2018 in the matter of Shibu Manual Vs. Union of India & Ors. to expedite the entire process of remediation works in time bound manner.

b) With regard to remediation of contaminated sites at Edyaar; Kerala SPCB was requested to issue direction to responsible party to initiate lifting and disposal of waste from the unlined jerosite ponds and execute remediation works as per the DPR. In case of failure to comply, as per the Hon'ble NGT order dated 26.08.2019,

environmental compensation may have to be paid by Kerala SPCB at the rate of Rs. 10 lakh per site.

2. Madhya Pradesh: There are 03 contaminated sites for which DPR preparation is under way. MPPCB informed that from one of the contaminated site at Plot No. 61-B, waste had been lifted and disposed through TSDF. In case of other contaminated site at Plot No. 54-E wherein hazardous waste is still lying, MPPCB informed that a case has been filed against responsible party for lifting and disposed the same in environmentally sound manner.

MS, CPCB informed that lifting of hazardous waste is a priority action point and failure to do so may attract payment of environmental compensation by MPPCB.

3. Odisha: There are 04 contaminated sites for which DPRs have been prepared and forwarded by CPCB to Government of Odisha and Odisha SPCB for execution of Remediation works.

a) With regard to execution of remediation works at mercury contaminated sites at Ganjam, Odisha SPCB informed that remediation work as per DPR is under way. Further, informed that tendering process for construction of new Secured Landfill for disposal of waste from JCL-I, II and III sites is also initiated.

b) In case of chromium contaminated site at Talcher; Odisha SPCB informed that due to high cost for remediation as per DPR, responsible party is unable to taken-up for lifting and disposal of waste through TSDF. Board has also informed that regularly following-up is being made with the responsible party and State Govt.

MS, CPCB has suggested that necessary directions may be issued to Responsible Party for lifting and disposal of hazardous waste. In case of failure to comply, environmental compensation may have to be paid by Odisha SPCB.

4. Tamil Nadu: There is 01 contaminated site for which DPR has been prepared and forwarded the same to Government of Tamil Nadu and TNPCB for execution of Remediation works.

a) TNPCB informed that since the cost of actual remediation as per the DPR is very high, it is proposed to lift and disposal of hazardous waste through TSDF.

CPCB conveyed that Interim measures also proposed in DPR as per the request of TNPCB/Govt. of TN for capping of waste and contaminated soil along with storm water drainage system with a cost of about Rs. 12 crore. Afterwards, groundwater

remediation by applying Pump & Treat method may be implemented initially for 5 years. It was also explained that cost of remediation will appear high due to inclusion of GW remediation cost over a period of 15 years. However, actual cost may be much lower. Initial cost of remediation may focus up 1 - 2 years O&M cost of GW remediation. While preparing DPR cost of transferring to TSDF was discussed however, it was deferred due to cost consideration.

MS, CPCB has suggested TNPCB that once DPR is accepted by Project Steering Committee (PSC) headed by Chairman, CPCB remediation work needs to be executed within the timelines stipulated in DPR.

5. **Uttar Pradesh:** There are 07 contaminated sites for which 02 DPRs have been prepared and forwarded the same to Government of Uttar Pradesh and UPPCB for execution of Remediation works.

- i) With regard to remediation of 02 chromium contaminated sites at Rania; UPPCB informed that Govt. of UP has assigned the task to UPSIDA for execution through competent remediation contractor. Further, it is informed that due to receive of single bid for selection of remediation contractor during tendering process, execution of remediation couldn't be initiated.

In this regard, MS, CPCB has suggested that appropriate process may be adopted to justify the costs in single bid. If required, the work may be carried out stage wise.

- ii) In case of remediation of 05 pesticide contaminated sites at Deva Road, UPPCB informed that for further study of the said sites task was assigned to IITR Lucknow to ascertain the extent of contamination in soil/groundwater/surface water/sediment.

In this regard, CPCB informed that DPR is already been approved by Project Steering Committee (PSC) under the chairmanship of Chairman, CPCB after consultation with Technical Expert Committee (TEC) of CPCB including officials of UPPCB. Therefore, UPPCB may direct the responsible party to initiate remediation works as per DPR.

In case of failure to comply, environmental compensation may have to be paid by UPPCB.

6. **West Bengal:** There is 01 contaminated site for which DPR has been prepared and forwarded the same to Government of West Bengal and WBPCB for execution of Remediation works.

- i) WBPCB informed that remediation work is delayed due to COVID-19 pandemic. CPCB conveyed that as the cost of remediation is not high (about Rs. 45 lakh), WBPCB is requested to initiate remediation work immediately.

Recommendations/Action Points:

1. All SPCBs/PCC shall submit Action Points (as per Annexure-II) with proper road-map and specific timelines for carrying out preliminary/detailed site investigation, preparation of DPRs, execution of remediation works, lifting of hazardous waste within 15 days. Further, other Action Points if any, SPCBs/PCC may suggest.
2. SPCBs/PCC shall submit current status of the sites wherein DPRs prepared and remediation works are on-going **within 15 days**.
3. SPCBs/PCC shall constitute State Level Empowered Monitoring Committee (SLEMC) having representatives from Dept. of Environment, Industries Dept., SPCB/PCC, CGWA/SGWA, relevant Experts, etc. for effective implementation of remediation plans.
4. It was decided that in next meeting, Action Plans submitted by SPCBs/PCC may be reviewed after 15 days.



S. No.	Action Point	Timeline as per order dated 26.08.2019	Timeline as per order dated 01.07.2020	Remarks / expected timelines
i.	<p>SPCBs/PCCs to ensure that the hazardous waste accumulated/lying at following sites shall be disposed off either through TSDf or SLF on priority to stop further contamination:</p> <p>a) wherein Detailed Project Reports (DPRs) already prepared under NCEF Project</p> <p>b) all such identified sites/any new sites, if any</p>	<p>Failure to remove the waste from the identified sites, will result in environmental compensation to be paid at the rate of Rs. 10 lakhs per site from 01.04.2020 by the concerned SPCBs/PCCs to the CPCB. Same rate will apply in respect of such of the 195 probable contaminated sites as are identified as contaminated with effect from 01.01.2021.</p>	3 months	
ii.	<p>Sites for which DPRs prepared under NCEF project, SPCBs shall direct responsible party to initiate remediation works by engaging reputed contractor with intimation to CPCB.</p>		<p>Regarding immediate remediation of contaminated sites, within a period of six months (i.e. 31.01.2021). Environmental damages caused by such sites and loss in terms of monetary resources may also be estimated.</p>	
iii.	<p>In case of Probable contaminated sites, SPCBs/PCC may carry out Preliminary site investigation as per "Reference document on Identification, Inspection and Assessment of Contaminated Sites" prepared by CPCB.</p>	<p>probable contaminated sites, the assessment may be completed within six months (25.02.2020) and thereafter the waste may be removed within next six months (25.08.2020) from sites cleared by</p>	45 days	

S. No.	Action Point	Timeline as per order dated 26.08.2019	Timeline as per order dated 01.07.2020	Remarks / expected timelines
	Investigation report shall be submitted to CPCB for further examination [as word (.docx) form] as per format prescribed in aforesaid Reference Document for listing of sites.	the CPCB to be contaminated.		
iv.	In case of Contaminated sites , SPCBs/PCC shall carry out detailed site investigation followed by DPR preparation, as per aforesaid "Guidance document on Assessment and Remediation of contaminated sites in India" issued by MoEF&CC by engaging reputed remediation consultant. Detailed investigation and DPR preparation shall be carried out by responsible party. In case of orphan sites, the same shall be initiated by SPCB themselves.	sites which have already been identified as contaminated may be cleared of the hazardous waste <u>within six months (25.02.2020)</u> so that remediation process may start. The remediation work may start at the sites for which DPRs have been completed within the timelines specified in the DPRs. For the remaining sites, DPRs may be completed expeditiously but not later than one year (25.08.2020) and thereafter remediation may be done as per the timelines in the DPRs.	3 months	
v.	SPCBs/PCC are requested to enlist new site if found any due to anthropogenic activity. Chemicals of Concerns (CoCs) may be decided based on site inspection/historical activity(ies).			

S. No.	Action Point	Timeline as per order dated 26.08.2019	Timeline as per order dated 01.07.2020	Remarks / expected timelines
vi.	Financial supports for execution of project on remediation of the contaminated sites may be arranged to SPCBs/PCC so that the detailed investigation studies followed by remediation works can be undertaken on priority - By State/Central Govts.		4 months	
vii.	The Committee for effective implementation of remediation plan at state level, Empowered Monitoring Committee having representatives from Dept. of Environment, Industries Dept., SPCB/PCC, CGWA/SGWA, relevant Experts, etc. shall be constituted.			

List of officials participated (through VC)

Chaired by: Member Secretary, CPCB

CPCB Officials

1. Sh. B. Vinod Babu, Additional Director & Head, WMD-I, Delhi
2. Sh. G. Rambabu, Scientist-D, WM-I, CPCB, Delhi
3. Sh. Bharat K Sharma, Regional Director, CPCB-RD, Pune
4. Sh. P. Jagan, Regional Director, CPCB-RD, Bhopal
5. Mrs. H. D. Varalaxmi, Regional Director, CPCB-RD, Chennai
6. Sh. M. K. Biswas, Regional Director, CPCB-RD, Kolkata
7. Sh. Prasoon Gargava, Regional Director, CPCB-RD, Vadodara
8. Ms. Anjana Kumari, Scientist-D, RD Bengaluru, CPCB
9. Sh. Amit Thakkar, Scientist-D, CPCB-RD, Vadodara
10. Sh. Sandeep, Scientist-D, RD Kolkata, CPCB
11. Dr. G P Singh, Scientist-D, RD Kolkata, CPCB
12. Dr. Gargi Biswas, RA, WM-I, CPCB, Delhi

SPCB/PCC Officials

1. Dr. B. Madhusudan Rao, JCEE, APPCB
2. Sh. Nagarjuna, EE, APPCB
3. Sh. M. Pramod Kumar Reddy, Regional Officer, Visakhapatnam, APPCB
4. Representative from Regional Office, Kadapa, APPCB
5. Sh. Nandkumar Gurav, Regional Officer, HQ, Maharashtra PCB
6. Sh. D. M. Thaker, SEE, Gujarat PCB
7. Sh. Q. Q. Hassan, EE, WBPCB
8. Sh. H. S. Malviya, SE, MPPCB
9. Dr. Manoj Chauhan, PSO, HPPCB
10. Sh. R. Kannan, ACEE, TNPCB
11. Ms. Mayma, EE, Kerala SPCB
12. Dr. Kiran Jasuja, SSO, PPCB
13. Sh. D. Narendar, SEE, Telangana SPCB
14. Dr. A. K. Swar, CEE, OSPCCB
15. Sh. P. C. Rauta, SEE, OSPCCB
16. Sh. A. K. Anand, RO (Kanpur-Dehat), UPPCB
17. Ms. V. Kathikeyan, EO, Karnataka PCB
18. Sh. Mohan Girap, Goa PCB
19. Sh. Chandan Singh, CEO, UKPCB

20. Sh. M. Jadav, AEE, Haryana PCB
21. Sh. Praveen Kumar Jain, Haryana PCB
22. Sh. Harshvardhan Thakkar, Scientist, MPPCB
23. Sh. Naveen Gulia, SEE, Haryana PCB
24. Sh. S R Maurya, RO-Saharanpur, UPPCB
25. Representatives from Delhi PCC
26. Representatives from Jharkand, SPCB
27. Representatives from Chhattisgarh ECB