



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

HON'BLE NGT MATTER

April 30, 2024

CP-26/3/2021-WM-I-HO-CPCB-HO

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To

The Member Secretary  
SPCBs  
(As per the list)

**Sub: Minutes of eleventh meeting with SPCBs held on 02.04.2024 to review the action taken reports as per 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,

Central Pollution Control Board has conducted 11<sup>th</sup> review meeting with SPCBs on 02.04.2024 through VC in compliance to the directions of Hon'ble NGT in the matter of OA No. 804 of 2017. Minutes of meeting is enclosed herewith for further necessary action.

Yours faithfully,

(V. P. Yadav)

Director & Head,  
Waste Management Division-I

Encl.: As above

‘परिवेश भवन’ पूर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, New Delhi - 110032

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CENTRAL POLLUTION CONTROL BOARD  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार  
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Yours faithfully,

(V. P. Yadav)  
Director & Head,  
Waste Management Division-I

Encl.: As above

Copy to:

1. Regional Directorates, Central Pollution Control Board (As per the list) : For information and with request to follow-up the matter with concern SPCBs, please

(V. P. Yadav)

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**List of SPCBs:**

1. The Member Secretary  
Madhya Pradesh Pollution Control Board  
Paryavaran Parisar, Sector E-5,  
Arera Colony, Bhopal – 462 016
2. The Member Secretary  
State Pollution Control Board Odisha  
Paribesh Bhawan, A-118,  
Nilakantha Nagar, Unit-VIII  
Bhubaneswar – 751 012
3. The Member Secretary  
West Bengal Pollution Control Board  
Paribesh Bhawan  
10A, Block-LA, Sector-III  
Bidhannagar, Kolkata-700 106

**List of Regional Directorates, CPCB:**

1. Regional Director  
Regional Directorate – Bhopal  
3rd Floor, Sahkar Bhawan, North TT Nagar,  
Bhopal-462003
2. The Regional Director  
Regional Directorate – Kolkata  
'South end Conclave' Block-502, 5th & 6th Floor,  
1582, Razidanga, Main Road,  
Kolkata-700107

**Minutes of the Eleventh Review Meeting with 03 SPCBs for compliance to the directions of Hon'ble NGT (PB) order dated 29.01.2021 in OA No. 804 of 2017 in the matter of Rajiv Narayan & Anr. Vs. Union of India & Ors; w.r.t, Contaminated sites held on 02.04.2024**

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In compliance to Hon'ble NGT order dated 29.01.2021 in OA No. 804 of 2017, the matter of Rajiv Narayan & Anr. Vs. Union of India & Ors., eleventh review meeting with 03 SPCBs was held through VC on 02.04.2024 to discuss about the action plans and its implementations regarding assessment of contaminated/probable contaminated sites and its remediation. The meeting was chaired by Sh. V. P. Yadav, Director & Head, Waste Management Division-I, CPCB, Delhi. The meeting was attended by officials of SPCBs, namely Madhya Pradesh, Odisha, & West Bengal, concerned RDs of CPCB and dealing officials of CPCB, HO. List of the participants is given at **Annexure-I**.

At the outset, Sh. V. P. Yadav, Director and Head, Waste Management Division-I, welcomed all the participants and briefed the agenda of the meeting. Thereafter, Sh. G. Rambabu, Scientist-E, CPCB, made the presentation on detailed action points to comply with various directions passed by Hon'ble NGT in aforesaid matters regarding identification, assessment and remediation of contaminated sites followed by status of on-going DPR preparations and execution of remediation works by the Responsible parties. Accordingly, State wise status was discussed, as given at **Annexure-II** and its deliberations is given as below:

**1. Madhya Pradesh:** There are 21 sites in MP, Out of which;

a) Following 8 sites are proposed for delisting, and it was requested MPPCB to carry on periodically GW sampling in & around the sites and accordingly, MPPCB has submitted action taken reports:

- 1) Indo Zinc, Plot-79, Sector -3, Pithampur, Dist-Dhar, MP
- 2) Kainchi Chhola colony, Bhopal-462001
- 3) Garib Nagar, Bhopal-462001
- 4) Blue Moon & Nawab Colony, Bhopal-462001
- 5) New Arif Nagar, Bhopal-462001
- 6) Shiv Nagar, near Hindustan Petroleum depot, Bhopal—462001
- 7) Mandideep Industrial area, Mandideep, Raisen-462040
- 8) M/s Beta Naphthol-village Maksi, Shajapur Dist, MP-465106

Analysis result of soil and groundwater, carried on periodically, reveals no contamination. Hence, no further action is required.

b) For remaining 13 sites, 6 sites identified as PCS and other 7 sites are as CS. Out of 13 sites,

i) MPPCB has submitted action taken reports for following 4 sites located at UCIL area.

- 1) M/s Union carbide (UCIL), J.P. Nagar, Bhopal, Madhya Pradesh 462001 (CS)
- 2) Solar Evaporation Ponds outside UCIL premises, Bhopal (CS)
- 3) Atal Ayub Nagar, Near UCIL factory, Bhopal-462001 (PCS)
- 4) Shakti Nagar, Near Arif Nagar, Near Union Carbide factory, Bhopal (PCS)

In this regard, it is submitted that during 5th review meeting held on 13.10.2022, MPPCB was requested to follow-up or coordinate with State Govt. to initiate disposal of the hazardous waste stored at UCIL premises through TSDF at the earliest, as the matter is heard by Hon'ble NGT in OA No. 362 of 2021 and OA No. 804 of 2017. Further, it is submitted that the matter is also heard by Hon'ble NGT (CZ) in OA No. 3 of 2024 and vide order dated 20.03.2024, it is directed to take immediate actions by the authorities concerned on Disposal of hazardous waste (about 337 MT) lying at M/s Union Carbide Ltd. premises.

**CPCB suggestion:** MPPCB may follow-up with Bhopal Gas Tragedy Relief and Rehabilitation Department (BGTRRD) regarding disposal of HW from the UCIL premises as per directions of Hon'ble NGT. For 3 more adjoining sites of UCIL area, CPCB-RD, Bhopal is requested to follow-up the matter with MPPCB for early submission of action taken report as per recommendation **given at Annexure-II.**

- ii) For **5 sites** (4 CS & 1 PCS) in Ratlam area, MPPCB is requested to expedite assessment of waste quantity from the Plot 54-E, for disposal through secured landfill.

**CPCB suggestion:** Out of the 5 sites in Ratlam area, 01 site i.e. waste quantification of Plot 54-E report is underway. Upon receipt of the report, MPPCB may initiate disposal of the waste through secured landfill. For following 02 sites, Joint sampling by MPPCB and CPCB-RD Bhopal may be carried out as per CPCB reference document followed by Soil & GW sampling from 5-6 locations and submit report to CPCB with 2 months.

- Ratlam Industrial Area-457001
- M/s Boardia Chemicals Pvt Ltd. Ratlam, Madhya Pradesh-457001

- iii) Further, it is submitted that no fresh report of action taken is submitted by MPPCB for the following **3 sites:**

- 1) Dabli, Mangliya, Indore, MP;
- 2) M/s Grasim Chemical, Grasim Nagar, Nagda, MP;
- 3) Post Vindhyan Nagar, Dist. Sangruli, MP-486885;

**CPCB suggestion:** MPPCB may submit action taken reports supported with adequate number of samples (5-6) and analysis results of CoCs with general parameters & heavy metals and site visit/sampling photographs **within 2 months** as per observation & suggestions, given at **Annexure-II.** In this regard, CPCB-RD, Bhopal is requested to follow-up the matter with MPPCB for early submission of action taken report.

- iv) The site namely - 'Deoguradiya (Municipal landfill Site), Near Devguradia, Indore, MP', is a MSW dumpsite, therefore, it is proposed that the site may be de-listed from the hazardous waste contaminated sites.

2. **Odisha:** There are 32 sites in Odisha; wherein, 09 sites identified as PCS and other 23 sites are as CS. In this regard, OSPCB has informed the following:

- a) For **03 mercury contaminated sites** at Ganjam, remediation work is underway as per the DPR. Further, it is proposed that the 03 sites (i.e. JCI-I, JCL-II & JCL-III) may be considered as single site (i.e. GIL sites, Ganjam)
- b) For **01 chromium contaminated site** at M/s Orichem, Talcher, regarding disposal of hexavalent chromium hazardous wastes from the site, OSPCB has informed that only 700 MT of waste has been disposed through TSDF.

**CPCB suggestion:**

- (i) Since slow progress has been observed in disposal of hazardous waste from **chromium contaminated site at Orichem, Talcher**, OSPCB should issue necessary directions within a month to the party responsible for lifting and disposal of hazardous waste through TSDF or SLF. In case of failure to comply, as per the Hon'ble NGT order dated 26.08.2019 in OA No. 804/2017, environmental compensation may be imposed to Odisha SPCB at the rate of Rs. 10 lakh per site.
  - (ii) For site at **INDAL-III (located outside the unit premises of M/s Indian Aluminum Company Limited), Hirakud, Sambalpur**, OSPCB should issue the following necessary directions to the unit:
    - a) To assess the waste characterization,
    - b) To estimate the quantity of hazardous waste to be disposed through Secure Landfill (SLF),
    - c) To dispose of hazardous waste lying at the site after scientific stabilization through SLF.
    - d) Once all the waste has been disposed of through SLF, the unit should carry out a detailed assessment of the site by engaging reputed consultant/Institute. In this regard, the unit may submit the sampling and analysis plan to the CPCB and OSPCB.
  - (iii) For remaining sites, OSPCB may submit action taken reports supported with adequate sampling (i.e. 4-5 samples) of different matrix and analysis results of CoCs with general parameters & heavy metals and site visit/sampling photographs **within a month** as per observation & suggestions, given at **Annexure-II**.
3. **West Bengal:** There are **07 sites in WB**; wherein, **06 sites are identified as PCS and 01 site is as CS**.
- i) In case of one (01) chromium contaminated site at Nibra for which DPR was prepared under National Clean Energy Fund (NCEF) project, it is observed that no action has been taken for execution of remediation works.

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Further, it is to inform that CPCB has received a Legal Notice dated 07.09.2023 from the Advocate of the Consultant (i.e. M/s ERM India Pvt. Ltd.) for release of pending payment along with 18% interest for delay in payment (copy of the legal notice is enclosed for ready reference). In this regard, CPCB vide letter dated 13.11.2023 requested to your Board for release State's share payment for Project on "Remediation of hazardous waste contaminated dumpsites" under NCEF. However, state share is still awaited.

Therefore, the proportionate State share of Rs. 33,97,701/- for preparation of aforesaid DPR may be arranged to CPCB at the earliest, so that pending payment can be released to the Consultant i.e. M/s ERM India Pvt. Ltd.

**CPCB suggestion:** WBPCB should initiate remediation work at the earliest as per the DPR prepared under NCEF project without any further delay.

- ii) For remaining 06 PCS, WBPCB was requested to submit action taken report (ATR) supported with analysis results and site visit/sampling photographs within a month. However, the ATRs are still awaited.

**CPCB suggestion:** CPCB asked for joint visit by WBPCB and RD Kolkata and adequate number of sampling may be carry out to conclude the status of the said sites. WBPCB should submit action taken report for remaining 06 PCSs, supported with analysis results and site visit/sampling photographs **within a month** without any further delay. In this regard, CPCB-RD, Kolkata is requested to follow-up the matter with WBPCB.

#### **Recommendations/Action Points:**

1. SPCBs need to **update regularly 'Inventory of contaminated sites' and may furnish the updated data to CPCB** for maintaining a national list in public domain from time to time.
2. SPCBs should initiate preliminary investigation of probable contaminated sites followed by detailed investigation and remediation works, if required. **Action taken report should be submitted by the concerned SPCB within a month without any delay.**

In this regard, who have not yet submitted the aforesaid Action taken reports, may submit the same within one month from the date of issue of this minutes.

3. SPCBs may initiate **immediate remedial measures for priority contaminated sites and wherein DPRs already prepared for remediation of contaminated sites under National Clean Energy Fund (NCEF) project.**
4. States to take responsibility for high risk "Orphan Sites", where there is historic dumping & for which DPRs have already been prepared under NCEF project, and the polluter could not be identified or polluter is not in a position to pay for remediation costs.

**In this regard, SPCBs may follow-up with concerned State Govt.**



5. SPCBs should monitor, wherein Remediation work is undertaken by Responsible Party (ies) and wherein DPRs prepared under NCEF project, SPCBs should submit **progress/status report bi-monthly.**
6. As per the directions of NGT, SPCBs/PCC shall ensure that the hazardous waste accumulated/lying at following sites shall be disposed of either through TSDF or SLF on priority to stop further contamination.

**In case of failure to comply, as per the Hon'ble NGT order dated 26.08.2019 in OA No. 804 of 2017 and order dated 09.03.2022 in OA No. 362 of 2021, environmental compensation may have to be paid by SPCBs/PCC at the rate of Rs. 10 lakh per site.**

7. **All SPCBs also requested to constitute State Level Environmental Monitoring Committee (SLEMC)** having representatives from Dept. of Environment, Industries Dept., SPCB, CGWA/SGWA, relevant Experts, etc., for effective implementation of remediation plans and communicate the SLEMC constitution to CPCB **within 2 weeks.** If constituted, ignored, pls

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

**CPCB Officials (HO)**

1. Sh. V. P. Yadav, Director & Head, WMD-I,
2. Sh. G. Rambabu, Scientist-E, WM-I,
3. Sh. Manoj Kumar, Scientist-B, WM-I
4. Dr. Gargi Biswas, RA-III, WM-I,
5. Sh. Siddhesh Thorat, SLA, WM-I

**CPCB Officials (Regional Directorate)**

6. Sh. P. Jagan, Regional Director, CPCB-RD, Bhopal
7. Sh. Sandeep Roy, Scientist-D, CPCB-RD, Kolkata
8. Sh. P. K. Jain, Scientist-B, CPCB-RD, Bhopal

**SPCB Officials**

9. Sh. R. K. Gupta, SE, MPPCB
10. Sh. Harshvardhan Thakkar, Scientist, MPPCB
11. Er. P. C. Rauta, ACEE, OSPCB
12. Mrs. Manjira Biswas, AEE, WBPCB



Table-1: Revised State wise distribution of contaminated and probable contaminated sites								
S. No.	States	Updated status as on Mar, 2024				HW lying at site	Identified site for remediation	
		Total Sites	Probable Sites (PCS)	Contaminated Sites (CS)	De-list		Detailed Investigation and DPRs	Remediation Works
1.	Madhya Pradesh	21	6	7	8	1	3	
2.	Odisha	30	9	21		1	2	3
3.	West Bengal	7	6	1			1	

## Madhya Pradesh

MPPCB vide letter dated 28.11.23 submitted action taken report for 13 probable contaminated sites in Madhya Pradesh; out of which following 8 sites were proposed to be delisted and requested to carry on periodically GW sampling in & around the site and submit the report to CPCB.

- i. Indo Zinc, Plot-79, Sector -3, Pithampur, Dist-Dhar, MP
- ii. Kainchi Chhola colony, Bhopal-462001
- iii. Garib Nagar, Bhopal-462001
- iv. Blue Moon & Nawab Colony, Bhopal-462001
- v. New Arif Nagar, Bhopal-462001
- vi. Shiv Nagar, near Hindustan Petroleum depot, Bhopal—462001
- vii. Mandideep Industrial area, Mandideep, Raisen-462040
- viii. M/S Beta Naphthol-village Maksi, Shajapur Dist, MP-465106

As analysis result of periodic samples reveal no contamination, **the aforesaid 8 sites may be delisted.**

Further, the reports of other sites have been examined and following observations/suggestions are made:

S. No.	Name of the Site	CS/PCS	Action taken/initiated by MPPCB	Observations/ Suggestions by CPCB
<b>Ratlam area</b>				
1.	Sajjan Chemicals -Plot No ; 54 E dosigoan Industrial area, Ratlam, Madhya Pradesh	CS	i) Detailed site investigation completed under NCEF project and DPR is under progress. ii) As per detailed site investigation carried out, it is revealed that GW is contaminated with <b>color, TDS, Chloride and Sulphate.</b>	A final report is awaited from the consultant regarding waste estimation, based on the specific density of waste from Plot 54-E calculated by MANIT.  Once the report is received, MPPCB may dispose of waste from the Plot 54-E through secure landfill in time bound manner.
2.	Sajjan chemical Pvt Ltd ( Plot No -61 B, Dosigaon Industrial Area, Ratlam)	CS	iii) A team consisting of MPPCB, CPCB RD, Bhopal and M/s ERM has been constituted, quantification report of hazardous waste is underway.	
3.	M/s Jayant Vitamin, Ratlam	CS		
4.	Ratlam Industrial Area-457001	CS	No report has been submitted by MPPCB. However Analysis result of old report revealed as below: <ul style="list-style-type: none"> <li>• Soil is not contaminated.</li> <li>• In GW samples, <b>Lead, Color, Chloride, Sulphate, and TDS</b> are reported higher than acceptable limit of BIS. <b>COD</b> is also reported in the samples.</li> </ul>	It is suggested that soil and GW sampling may be carried out from 5-6 locations as per CPCB reference document jointly by MPPCB and CPCB-RD Bhopal. The visit joint report along with ATR will be submitted to CPCB by MPPCB within 2 months.
5.	M/s Boardia Chemicals Pvt	PCS	No report has been submitted by MPPCB	

S. No.	Name of the Site	CS/PCS	Action taken/initiated by MPPCB	Observations/ Suggestions by CPCB
	Ltd. Ratlam, Madhya Pradesh-457001		<p>However, analysis result of old report revealed as below:</p> <ul style="list-style-type: none"> <li>- Soil is found as not contaminated.</li> <li>- In GW samples <b>Lead and Copper</b> are reported higher than acceptable limit of BIS. <b>COD</b> is also reported in the GW samples</li> </ul>	
<b>UCIL area</b>				
6.	M/s Union carbide (UCIL), J.P. Nagar, Bhopal, Madhya Pradesh 462001	CS	<ul style="list-style-type: none"> <li>i. GW and Soil sample collected from single location, &amp; analysis result reveals no contamination.</li> <li>ii. SW sample collected from 2 locations, &amp; analysis result of carbamate (pesticides) reveals no contamination.</li> <li>iii. <b>MPPCB vide letter dated 30.06.2022 has informed regarding disposal of UCIL waste from the premises.</b></li> <li>iv. <b>As the matter is also heard by Hon'ble NGT (CZ) in OA No. 3 of 2024 order dated 20.03.2024, it is directed to take immediate actions are required to be taken by the authorities concerned on Disposal of chemical waste which is approximately 337 metric tons and is lying in the Union Carbide Campus.</b></li> </ul>	<p>It was observed that single sample of <b>soil &amp; GW</b> collected. Hence, it may be difficult to draw a conclusion whether the site is contaminated or not.</p> <p>Therefore, it is suggested that adequate no. (atleast 5-6 samples of each matrix) of soil, GW, SW &amp; sediment sampling may be carried out in and around the site jointly by MPPCB and CPCB-RD Bhopal. The investigation report along with ATR will be submitted to CPCB by MPPCB within 3 months.</p> <p>MPPCB may follow-up with State of MP regarding disposal of HW from the site as per directions of Hon'ble NGT.</p>
7.	Solar Evaporation Ponds outside UCIL premises, Bhopal	CS	<ul style="list-style-type: none"> <li>i. GW and Soil sample collected from single location, &amp; analysis result reveals no contamination.</li> <li>ii. SW sample collected from 2 locations, &amp; analysis result of carbamate (pesticides) reveals no contamination.</li> <li>iii. <b>MPPCB vide letter dated 30.06.2022 has informed regarding disposal of UCIL waste from the premises.</b></li> </ul>	<p>Further, MPPCB may carry out SW &amp; sediment sampling from solar evaporation pond.</p>
8.	Atal Ayub Nagar, Near UCIL factory, Bhopal-462001	PCS	<p>MPPCB inspected the site followed by soil and GW sampling. Analysis result reveals as below:</p> <ul style="list-style-type: none"> <li>- soil is not contaminated.</li> </ul>	<p>MPPCB may carry on periodically (pre-monsoon &amp; post-monsoon) GW sampling in and around the</p>

S. No.	Name of the Site	CS/PCS	Action taken/initiated by MPPCB	Observations/ Suggestions by CPCB
			<ul style="list-style-type: none"> <li>- GW is contaminated with Fluoride.</li> </ul> <p>However, in the report of 2020, <b>Copper, Nitrate and TDS</b> were reported in GW samples higher than acceptable limit of BIS.</p>	site and analyzed for physico-chemical parameters and CoCs for 02 years, and submit report to CPCB time to time.
9.	Shakti Nagar, Near Arif Nagar, Near Union Carbide factory, Bhopal	PCS	<p>MPPCB inspected the site followed by soil and GW sampling. Analysis result reveals no contamination on Soil and GW.</p> <p>However, in the report of 2020, <b>Copper, Nitrate and TDS</b> were reported in GW samples higher than acceptable limit of BIS.</p>	
<b>Other CS &amp; PCS</b>				
10.	M/s Grasim Chemical, Grasim Nagar, Nagda, Madhya Pradesh	PCS	<p>Site is inspected by MPPCB followed by GW samples from 2 locations and analysis result reveals no contamination.</p> <p>Further, analysis result of soil samples, revealed no contamination.</p>	<p>It was observed that only <b>2 soil &amp; GW samples</b> collected. Hence, it may be difficult to draw a conclusion whether the site is contaminated or not.</p> <p>MPPCB may carry on periodically (pre-monsoon &amp; post-monsoon) GW sampling in and around the site and analyzed for physico-chemical parameters for 02 years, and submit report to CPCB time to time.</p>
11.	Post Vindhyan Nagar, Dist. Sangruli, MP-486885	PCS	<p>No report has been submitted by MPPCB</p> <p>However, Analysis result of old report revealed as below:</p> <ul style="list-style-type: none"> <li>- Soil is not contaminated.</li> <li>- GW-sampling was not carried out.</li> </ul>	MPPCB requested to carry out GW sampling from 3-4 locations to ascertain the quality of GW and submit report to CPCB as per CPCB format within 1 month.
12.	Deoguradiya (Municipal landfill Site), Near Devguradia, Indore, MP - 452001	PCS	<p>Analysis result of old report of 2020 revealed as below:</p> <ol style="list-style-type: none"> <li>i. The said area falls under the jurisdiction of residential zone.</li> <li>ii. Samples of soil and GW was collected.</li> </ol>	MSW dumpsite may be taken up for remediation as per the guidelines issued by CPCB from time to time. In this regard, MPPCB may submit progress report to CPCB.

S. No.	Name of the Site	CS/PCS	Action taken/initiated by MPPCB	Observations/ Suggestions by CPCB
			iii. In soil no contaminated is reported. iv. In GW samples, <b>Chloride and TDS</b> are reported higher than acceptable limit of BIS. <b>COD</b> is also reported in the GW samples.	Therefore, is it is proposed that the site may be de-listed from the hazardous waste contaminated sites.
13.	Dabli, Mangliya, Indore, MP	<b>CS</b>	i. CPCB vide letter dated 10.01.2020 issued directions u/s 18(1) of Water Act, 1974 to MPPCB regarding oil contamination due to leaking of underlines pipe lines. As Oil & Grease conc. in GW sample was reported as 1 mg/L (BIS limit for Mineral oil in Drinking water is 0.5 mg/L). ii. MPPCB has inspected the site followed by soil and GW sampling. iii. Analysis result of GW samples reveals that <b>odor of Mild-Petroleum products along with TDS</b> . iv. Analysis result of heavy metals in soil samples reveals no contamination. v. Further, geo-environmental study report was done by NIH-Roorkee and submitted in Aug, 2021.	Detailed investigation should be carried out based on the "scope" provided by CPCB and report be submitted with ATR within <b>2 months</b> without any delay.

## Odisha

No fresh report has been submitted by OSPCB. There are 32 sites in Odisha; wherein, 09 sites identified as PCS and other 23 sites are as CS. However, Odisha SPCB had submitted a brief status along with report on 22.08.2022. and site wise observation is given below:

S. No.	Name of the Site	CS/ PCS	Action taken/ initiated by OSPCB	Observations/ Suggestions by CPCB
1.	GIL sites, Ganjam, Odisha  [i] Dumpsite JCL-I & III, near Rushikulya River;  ii) JCL-II, old dumpsites]	CS	DPR is completed under NCEF project of MoEF&CC and CPCB.  Remediation work is underway by responsible party (M/s GIL) as per the DPR.	Official of CPCB & OSPCB Jointly visited the sites held during March 13-15, 2024 to verify the ongoing remediation work.  Disposal of Hg-contaminated waste followed by Stabilization through new SLF is underway.
2.	Site OCL-I, ORICHEM abandoned site (inside the premises of M/s Orichem Ltd and also outside the boundary of wall), Talcher, Orissa	CS	DPR is completed under NCEF project of MoEF&CC and CPCB.  Disposal of HW has been initiated by responsible party (M/s ORICHEM) as per the DPR.	No progress is observed regarding disposal of wastes from the site during joint visit, held on 09.06.2023.  Therefore, <b>OSPCB should issue appropriate directions to M/s Orichem Ltd for lifting and disposal of hazardous waste through on-site SLF or off-site TSDF at the earliest</b> and initiate remediation works as per the DPR.
3.	Site INDAL-III (Located outside the unit premises of M/s Indian Aluminum Company Limited), Hirakud, Sambalpur	CS	– M/s HINDALCO has submitted detailed investigation report along with remediation plan vide dated 29.09.2022. – In the report, it is informed that estimated <b>waste quantity is about 30200 tons</b> . The said waste and impacted soil will be transferred to TSDF at Jajpur.	OSPCB should issue the following necessary directions to the unit:  a) To estimate the quantity of hazardous waste to be disposed through Secure Landfill (SLF),

S. No.	Name of the Site	CS/PCS	Action taken/ initiated by OSPCB	Observations/ Suggestions by CPCB
			<ul style="list-style-type: none"> <li>– Part of the waste (approx. 5000 MT) will be disposed of captive SLF of M/s HINDALCO. In this regard, it is requested to issue NOC by OSPCB.</li> <li>– Further for remaining contaminated soil, sampling will be done for validation.</li> <li>– Analysis result of <b>GW sample reveals about contamination with Fluoride and Cyanide</b> w.r.t., BIS drinking water standard.</li> </ul>	<p>b) To dispose of hazardous waste lying at the site after scientific stabilization through SLF.</p> <p>c) Once all the waste has been disposed of through SLF, the unit should carry out a detailed assessment of the site. A sample plan in this regard may be submitted to CPCB.</p> <p>and may submit the status report on above to CPCB from time to time.</p>
4.	Vedanta Limited, Lanjigarh, Kalahandi, Odisha-766027	CS	<p>OSPCB had inspected the site and carried out soil, surface water, sediment and GW sampling.</p> <p>Analysis result reveals that:</p> <ul style="list-style-type: none"> <li>(i) GW and Surface water samples are not contaminated;</li> <li>(ii) Soil is contaminated with <b>Chromium and Zinc w.r.t., Soil screening level of Canadian guideline for Industrial land use.</b></li> </ul>	OSPCB should carry out detailed investigation as per the guidance document and submit report and along with ATR within <b>03 months.</b>
5.	Jharsuguda, Odisha-768202	CS	<p>Joint site inspection carried out by the officials of CPCB and OSPCB during 12-13<sup>th</sup> January, 2023 regarding Validation of "Environment Site Assessment (ESA-II)" study at the premises of M/s Vedanta Ltd., Jharsuguda, Odisha. Joint visit report containing recommendations was forwarded for necessary action through letter of even no dated 30-03-2023.</p>	Action taken report may be submitted within a month to CPCB for taking further decision.

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6.	Sukinda, Orissa-755018	CS	<p>Site inspection was carried out by OSPCB.</p> <p>Soil samples collected and analyzed for CoCs. Analysis result reveals about soil contamination with <b>Chromium and Zinc w.r.t., Soil screening level of Canadian guideline for Industrial land use.</b></p> <p>GW samples were carried out and analysed for physic-chemical parameters and CoCs. Analysis result reveals no contamination.</p>	<p>OSPCB should jointly carry out a detailed investigation of the site with CPCB-Regional Directorate, Kolkata and submit the report along with ATR within <b>03 months.</b></p> <p>In this regard, CPCB-RD, Kolkata is requested to follow up the matter with WBPCB.</p>
7.	RKL-II (In Beldihi village along the play ground between Govt primary school & St. Georgia school)	CS	<p>Site inspection was carried out by OSPCB and submitted that:</p> <p>(i) Responsible polluter party identified as M/s Lotus chemicals.</p> <p>(ii) Soil and GW samples collected and analyzed for CoCs.</p> <p>(iii) Analysis result reveals about soil contamination with <b>Chromium (Total &amp; Hexavalent) w.r.t., Soil screening level of Canadian guideline for Industrial land use.</b></p> <p>(iv) Analysis result reveals about SW &amp; GW contamination with <b>Chromium (Total &amp; Hexavalent).</b></p>	<p>OSPCB should carry out detailed investigation of the sites and submit reports along with ATRs within <b>03 months.</b></p>
8.	Site KCL IV, outside the premises of M/s KCL near Northern Boundary- Mayurbhanj Orissa	CS	<p>i) Site inspection was carried out by OSPCB and accordingly, soil &amp; GW samples collected and analyzed for CoCs.</p> <p>ii) Analysis results of GW reveal no contamination.</p> <p>iii) Analysis result reveals about soil contamination with <b>Chromium (Total &amp;</b></p>	
9.	Site KCL V, outside the premises of	CS	<p><b>Chromium (Total &amp;</b></p>	

S. No.	Name of the Site	CS/PCS	Action taken/ initiated by OSPCB	Observations/ Suggestions by CPCB
	M/s KCL near main Gate; Mayurbhanj Orissa		<b>Hexavalent) w.r.t., Soil screening level of Canadian guideline for Industrial land use.</b>	
10.	Site KCL-I, , Inside the premises of M/s KCL near H2SO4 Tank	CS		
11.	Site KCL II, Inside the premises of M/s KCL near Gate, Mayurbhanj, Orissa	CS		
12.	Site KCL III, ,Inside the premises of M/s KCL inside drier room, Mayurbhanj, Orissa	CS		
13.	Site NALCO-I, M/s National Aluminum Co. Products, Angul	CS	Site inspection was carried out by OSPCB and accordingly, soil samples collected and analyzed for CoCs. Analysis results reveal no contamination in soil w.r.t. CoCs.	Soil sampling were carried out from 3-4 locations from each site. However, the samples were analysed for only CoCs. The analysis results reveal no contamination. No groundwater samples were carried out.  Therefore, OSPCB may carry out periodic groundwater samples from 5-6 locations and analyse the same for general parameters and heavy metals as per CPCB reference document and submit the same <b>within 6 months.</b>
14.	Site NALCO-II, M/s National Aluminum Co. Products, Angul	CS		
15.	Site NALCO-III, M/s National Aluminum Co. Products, Angul			
16.	Gypsum Pond - Paradip Phosphate	CS	Site inspection was carried out by OSPCB and accordingly, soil, GW and surface water samples collected and analyzed for CoCs.	Soil, SW and groundwater sampling were carried out. However, the samples were analysed for only CoCs. The

S. No.	Name of the Site	CS/PCS	Action taken/ initiated by OSPCB	Observations/ Suggestions by CPCB
	& IFFCO, Paradip, Odisha		Analysis results reveal no contamination.	analysis results reveal no contamination.  Therefore, OSPCB may carry out samples of soil, groundwater, SW & sediment and analyse the same for general parameters and heavy metals as per CPCB reference document and submit the same within 3 months.
17.	Site ECFC-II (Outside the Premises along the boundary wall)), Mayurbhanj, Orissa	CS	<ul style="list-style-type: none"> <li>– Site inspection was carried out by OSPCB.</li> <li>– GW and soil sampling carried out and analyzed for CoCs.</li> <li>– Analysis result of soil samples reveals that <b>concentration of Cr (Hexavalent) is higher than Canadian screening level for industrial land use.</b></li> <li>– Analysis result reveals about no GW contamination.</li> </ul>	OSPCB should carry out detailed investigation of the sites and submit reports along with ATRs within <b>03 months.</b>
18.	RKL-III (In a low lying area in Kaluga industrial estate near Kalinga Sponge industry, around 500 m away from M/s Konark Chemicals and M/s Siddharth Chemicals)	CS	<ul style="list-style-type: none"> <li>– Site inspection was carried out by OSPCB and accordingly, GW, SW and soil sampling carried out and analyzed for CoCs.</li> <li>– Analysis results reveal that <b>soil is contaminated with Cr (Hexavalent) w.r.t., Canadian screening level for industrial land use.</b></li> <li>– Analysis result reveals that SW and GW is not contaminated.</li> </ul>	
19.	RKL-IV, inside the premises of M/S Siddharth Chemicals	CS	<ul style="list-style-type: none"> <li>– Site inspection was carried out by OSPCB and accordingly soil sampling carried out and analyzed for CoCs.</li> <li>– <b>Analysis results reveal that concentration of Hexavalent Cr is higher than screening/response levels.</b></li> </ul>	
20.	RKL-I (Inside The Premises Of M/S	CS		

S. No.	Name of the Site	CS/ PCS	Action taken/ initiated by OSPCB	Observations/ Suggestions by CPCB
	Lotus Chrome Chemicals)			
21.	Site ECFC-I (Backside of the unit.) Mayurbhanj, Orissa	CS	<ul style="list-style-type: none"> <li>– Site inspection was carried out by OSPCB.</li> <li>– GW and soil sampling carried out and analyzed for CoCs.</li> <li>– Analysis result of soil samples reveals that <b>concentration of Cr (Hexavalent) is higher than Canadian screening level for industrial land use.</b></li> <li>– Analysis result reveals about no GW contamination.</li> </ul>	
22.	Site INDAL-I (Located inside the unit premises of M/s Indian Aluminum Company Limited), Hirakud, Sambalpur	CS	<ul style="list-style-type: none"> <li>– Site inspection was carried out by OSPCB and accordingly, GW, SW and soil sampling carried out and analyzed for CoCs.</li> <li>– Analysis results reveal that <b>soil and GW is contaminated with Fluoride &amp; Cyanide.</b></li> </ul>	
23.	Site INDAL-II (Located inside the unit premises of M/s Indian Aluminum Company Limited), Hirakud, Sambalpur	CS		
24.	Brajrajnagar, Ib Valley-768201	PCS	Site inspection was carried out by OSPCB and accordingly, soil samples collected and analyzed for CoCs. Analysis results reveal no contamination in soil w.r.t. CoCs.	Soil sampling were carried out from 3-4 locations from each site. However, the samples were analysed for only CoCs. The analysis results reveal no contamination. No groundwater samples were carried out.
25.	Koniabera Site, Angul-759122	PCS		Therefore, OSPCB may carry out periodic groundwater samples from 5-6 locations and analyse the same for general parameters and heavy

S. No.	Name of the Site	CS/PCS	Action taken/ initiated by OSPCB	Observations/ Suggestions by CPCB
				metals as per CPCB reference document and submit the same <b>within 6 months.</b>
26.	Tentulei Common Polluted Site, Angul-759122	PCS	Site inspection was carried out by OSPCB.  Soil, and ground water samples collected and analyzed for CoCs. Analysis result reveals no contamination w.r.t. CoCs.	As analysis result of soil, GW, SW samples revealed no contamination, it is proposed to be delisted and requested to carry on periodically GW sampling in & around the site and submit the report to CPCB time to time.
27.	Brahamani Nandira River Polluted Sites, Angul-759122	PCS	Site inspection was carried out by OSPCB.  Soil, GW and Surface water samples collected and analyzed for CoCs. Analysis result reveals no contamination w.r.t. CoCs.	
28.	Kandsar & Karaberini Sites, NALCO, Angul-759122	PCS	Site inspection was carried out by OSPCB.  Soil samples collected and analyzed for CoCs. Analysis result reveals no contamination in soil w.r.t. CoCs.  GW samples were carried out and analysed for physic-chemical parameters and CoCs. Analysis result reveals no contamination.	
29.	Girang & Kulad Villages, NALCO, Angul-759122	PCS	Site inspection was carried out by OSPCB.	Soil sampling was carried out from 3-4 locations from each site. However, the samples were analysed for

S. No.	Name of the Site	CS/ PCS	Action taken/ initiated by OSPCB	Observations/ Suggestions by CPCB
30.	Ash Pond Contaminated Sites of CPP, NALCO, Orissa, M/s National Aluminum Co. Products, Angul, 759122	PCS	Soil samples collected and analyzed for CoCs. Analysis result reveals no contamination in soil w.r.t. CoCs.	<p>only CoCs. The analysis results reveal no contamination. No groundwater samples were carried out.</p> <p>Therefore, OSPCB may carry out periodic groundwater samples from 5-6 locations and analyse the same for general parameters and heavy metals as per CPCB reference document and submit the same <b>within 6 months.</b></p>

## West Bengal

CPCB observation during 4<sup>th</sup> and 9<sup>th</sup> Review Meetings held on 04.05.2022 and 28.10.2023, respectively, as given below:

- No representative had attended the said meetings;
- It was requested to initiate remediation work at Nibra, Howrah immediately as per the DPR prepared under NCEF project without any further delay.  
Therefore, the proportional State's share of **Rs. 33,97,701/-** including taxes, for preparation of DPR may be arranged to CPCB at the earliest so as to enable in release of pending payment to Consultant.
- Moreover, for 06 PCS, WBPCB was requested to submit action taken report supported with analysis results and site visit/sampling photographs within a month. In this regard, CPCB-RD, Kolkata was requested to follow-up the matter with WBPCB.

However, updated action taken reports are awaited from WBPCB. Status as per old report is given below:

S. No.	Name of the Site	CS/PCS	Action taken/ initiated by WBPCB	Observations/ Suggestions by CPCB
1.	Nibra Industrial Area, Howrah, West Bengal	CS	DPR is prepared under NCEF project. Accordingly, CPCB communicated final DPR to State of WB and WBPCB for execution of Remediation work.	Remediation works as per the DPR may be initiated at the earliest. Further, WBPCB may monitor the remediation works and submit progress report to CPCB from time to time.
2.	Tiljala, Picnic Gardens, Kolkata	PCS	WBPCB submitted that no documentary evidence of contaminated site. However, there are micro/small scale secondary lead smelting units are in operation occasionally. These units are disposing HW as per HOWM Rules, 2016.	WBPCB should jointly carry out a preliminary site investigation of the sites based on the CPCB reference document with CPCB-Regional Directorate, Kolkata and submit the report along with ATR within <b>03 months</b> .
3.	Calcutta Chemical Products, Dankuni Durgapur road,vill.- Dankuni,Dist.- Hoogly-712310	PCS	WBPCB submitted that study for remediation had been conducted by a Consultant (i.e. ERM India Pvt. Ltd.) Accordingly, the concerned industries located in and around the sites had been directed to take requisite measure as recommended by the Consultant.	In this regard, CPCB-RD, Kolkata is requested to follow up the matter with WBPCB.
4.	19, BT Road, Khardah,Kolkata-700116	PCS	WBPCB submitted that study for remediation had been conducted by a Consultant (i.e. ERM India Pvt. Ltd.) Accordingly, the concerned industries located in and around the sites had been directed to take requisite measure as recommended by the Consultant.	

S. No.	Name of the Site	CS/PCS	Action taken/ initiated by WBPCB	Observations/ Suggestions by CPCB
5.	Durgapur, West Bengal-713201	PCS	WBPCB submitted that study for remediation had been conducted by a Consultant (i.e. ERM India Pvt. Ltd.) Accordingly, the concerned industries located in and around the sites had been directed to take requisite measure as recommended by the Consultant.	
6.	Durgapur Napthelene, WB-713201	PCS		
7.	Belda Chemicals, vill.-Kharagpur (Mednipur) West Bengal-721301	PCS		

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