



## Central Pollution Control Board

(Ministry of Environment, Forest & Climate Change, Govt. of India)  
Parivesh Bhawan, East Arjun Nagar,

Delhi - 110032

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### **Minutes of review meeting held on 12.09.2019 in Conference Hall, 2<sup>nd</sup> Floor, CPCB, Delhi for ensuring compliance to Hon'ble NGT (PB), New Delhi orders dated 20.09.2018, 19.12.2018 and 08.04.2019 in OA No 673/2018 in the Matter of News Item Published in 'THE HINDU' Titled "More river stretches are now critically polluted: CPCB"**

A review meeting was held on September, 12, 2019 in CPCB under the Chairmanship of Dr. Prashant Gargava, Member Secretary, CPCB for scrutinizing revised and RRC approved action plans for rejuvenation of identified polluted river stretches (from P-III to P-V category) received from States viz. Andhra Pradesh, Bihar, Chhattisgarh, Goa, Jharkhand, Karnataka, Mizoram, Rajasthan, Sikkim, Tripura and Puducherry Pollution Control Committee for ensuring compliance to Hon'ble NGT orders dated 20.09.2018, 19.12.2018 and 08.04.2019 in OA No 673/2018. Representatives of States viz Chhattisgarh & Sikkim have not attended the meeting. List of participants is annexed **(Annexure-I)**.

Dr. Prashant Gargava, Member Secretary, CPCB, welcomed the officials of States & UT Government and requested Sh. A. Sudhakar, DH-WQM-I to brief about latest Hon'ble NGT orders in respect of P-III to P-V (and not P-I or P-II) polluted river stretches. Sh. A. Sudhakar DH, WQM-I informed that considering all aspects as per NGT order for rejuvenation of PRS in respective States/UTs to meet bathing quality criteria i.e. BOD  $\leq$  3mg/l, River Rejuvenation Committees (RRCs) constituted in compliance to Hon'ble NGT order dated 20.09.2019 have to upload the approved action plan on website by respective SPCBs/PCCs seeking views of public if any.

Thereafter, Member Secretary, CPCB, requested representatives of States/ State Government/ UT administration officials to present detailed action plans of polluted river stretches of P-III to P-V category. All 8 States & 1UT viz i.e. Andhra Pradesh, Bihar, Goa, Jharkhand, Karnataka, Mizoram, Rajasthan, Tripura and Puducherry presented their action plans which were reviewed. Upon detailed deliberations, State-wise decisions/ suggestions made are detailed in the table below:

| S. No | State/UT | Identified Polluted River Stretches |                               | Observations of CPCB on the Action Plans Presented by the States/UTs  |
|-------|----------|-------------------------------------|-------------------------------|---|
|       |          | River                               | Stretch                       |   |
| 1     | Bihar    | Sirsia P-III                        | Ruxol to Koirea Tola (Raxaul) | Representatives of Bihar presented the proposed action in respect of river Sirsia and informed that all the action plans were |
|       |          | Farmar P-V                          | Along Jogbani                 |   |

|    |     |                   |                                    |  |
|----|-----|-------------------|------------------------------------|--|
|    |     | Ganga P-V         | Buxar to Bhagalpur                 | <p>prepared in similar lines. Main observations made by CPCB during the meeting are</p> <ul style="list-style-type: none"> <li>• Projected population not taken into account for assessment of sewage generation and action plans for Septage management to be included.</li> <li>• Drains also be analyzed for heavy metals and results included.</li> <li>• Option of Bio-remediation of drains/wetlands in rural areas also be included.</li> <li>• Water consumption by industrial sector not included. Also, Industries operating in the river catchment which have not obtained NOC from CGWA for abstraction of ground water and not complying to prescribed discharge standards to be included and action be initiated against such industries.</li> <li>• Detailed gap analysis w.r.t Waste Management ( Solid waste, MSW, HW, E-waste, biomedical waste, plastic waste) be included.</li> <li>• Encroachment in flood plain zone to be removed.</li> <li>• Action plan for utilization of treated sewage to be included in action plan.</li> <li>• Performance Guarantee to be submitted by State Govt. as per Hon'ble NGT Order dated 08.04.2019.</li> <li>• Action point-wise definite timelines &amp; budget estimate to be included</li> </ul> |
|    |     | Punpun P-V        | Gaurichak to Fatuha                |  |
|    |     | Ramrekha P-V      | Harinagar to Ramnagar              |  |
|    |     | Sikrahna P-V      | Along Narkatiaganj                 |  |
| 2. | Goa | Sal               | Khareband To Mobor                 | <p>MS, Goa SPCB made a presentation on proposed action in respect of river Sal and main observations of CPCB made during presentation are</p> <ul style="list-style-type: none"> <li>• Latest water quality of tributaries and drains for general parameters including Heavy metals and ground water in the catchment area to be included.</li> <li>• River-wise detailed gap analysis with respect to sewage, Industrial Effluent and waste (MSW, HW, E-waste, biomedical waste, plastic waste) management to be included.</li> </ul>   |
|    |     | Marcela To Volvoi | Marcela To Volvoi                  |  |
|    |     | Talpona Assonora  | Along Canacona Assonora To Sirsaim |  |
|    |     | Bicholim          | Bicholim To Curchirem              |  |
|    |     | Chapora           | Pernem To Morjim                   |  |
|    |     | Khandepar         | Ponda To Opa                       |  |
|    |     | Sinquerim         | Along Candolim                     |  |

|    |           |              |                             |   |
|----|-----------|--------------|-----------------------------|---|
|    |           | Tiracol      | Along Tiracol               | <ul style="list-style-type: none"> <li>• I&amp; D of sewage from all major drains contributing to pollution to be included</li> <li>• All water polluting industries along the river catchment to be included.</li> <li>• Action plan to be revised covering other aspects w.r.t Adoption of good irrigation practices/ utilization of treated sewage to minimize abstraction of ground water ground water recharge development of bio-diversity parks including removal of encroachment along the banks of polluted river to be included.</li> <li>• Action point-wise timelines &amp; budget to be included as per Hon'ble NGT order dated 08.04.2019</li> <li>• Performance Guarantee to be submitted by the State Govt. as per Hon'ble NGT Order dated 08.04.2019</li> </ul>  |
|    |           | Valvant      | Sankli - Bicholim To Poriem |   |
|    |           | Zuari        | Curchorem To Madkai         |   |
| 3. | Jharkhand | Garga        | Along Talmuchu              | <p>Representatives of Jharkhand State made presentation on proposed action plan in respect of river Garga and main observations of CPCB made during presentations are</p> <ul style="list-style-type: none"> <li>• Water quality of drains contributing pollution and ground water in the catchment area for general and core parameter including Heavy metals to be included.</li> <li>• River wise gap analysis w.r.t sewage and industrial effluent management and waste management (MSW, HW, E-waste, biomedical waste, plastic waste) and requisite infrastructure for management be included.</li> <li>• Action plan to be revised covering other aspects w.r.to Adoption of good irrigation practices/ utilization of treated sewage to minimize abstraction of ground water, FPZ protection and its management, rain water harvesting and ground water recharge, maintaining E-flows and water shed management and setting up of Bio-diversity parks including removal of encroachment along the banks of polluted river to be included.</li> </ul> |
|    |           | Sankh        | Kongserabasar to Bolba      |   |
|    |           | Subarnarekha | Hatia Dam to Jamshedpur     |   |
|    |           | Damodar      | Phusro Road Bdg to Turio    |   |
|    |           | Jumar        | Kanke Dam to Kadal          |   |
|    |           | Konar        | Along Tilaya and Konar      |   |
|    |           | Nalkari      | along Patrattu              |   |

|   |           |                |  |  |
|---|-----------|----------------|--|--|
|   |           |                |  | <ul style="list-style-type: none"> <li>• Performance Guarantee to be submitted by the State Govt. as per Hon'ble NGT Order dated 08.04.2019</li> <li>• Achievable target &amp; budget estimate to be specified &amp; included.</li> </ul>  |
| 4 | Karnataka | Arkavathi      | Halli Reservoir to Kanakapura Town                           | <p>Representatives of Karnataka State made presentation on proposed action in respect of river Krishna and main observations of CPCB made during presentation are</p> <ul style="list-style-type: none"> <li>• Map showing all the towns, distributaries, drains &amp; industrial estates, contributing to pollution to be included</li> <li>• Latest water quality of drains including flow characteristics, as well as Ground water quality in terms of general and core parameters including heavy metals in the catchment area be included.</li> <li>• Detailed gap analysis w.r.t sewage, industrial effluent and waste management such as (MSW, HW, E-waste, biomedical waste, C&amp; D waste and plastic waste) along with existing infrastructure needs to be included.</li> <li>• Other aspects such as adoption of good irrigation practices, utilization of treated sewage to minimize abstraction of groundwater or use of surface water, Flood plain zone protection and its management, setting up of bio-diversity parks including removal of encroachment, plantation on both sides of the river removal of encroachment to be covered as directed by Hon'ble NGT vide order dated 19.12.2018.</li> <li>• Action point-wise definite &amp; specific time lines to achieve the desired water quality goals to be included.</li> <li>• Performance Guarantee to be submitted by State Govt. as per Hon'ble NGT Order dated 08.04.2019</li> </ul> |
|   |           | Lakshmantirtha | Kattemalavadi to Hunsur                                      |  |
|   |           | Malprbha       | Khanapur to Dharwad  |  |
|   |           | Tungabhadra    | Harihar to Korlahalli  |  |
|   |           | Bhadra         | Holehunnur to Bhadravath                                     |  |
|   |           | Cauvery        | Ranganathittu to Sathyamangalam Bridge                       |  |
|   |           | Kabini         | Nanjanagud to Hejjige  |  |
|   |           | Kagina         | Shahabad to Hongunta   |  |
|   |           | Kali           | Hasan Maad (West Coast Paper Mill) to Bommanahalli Reservoir |  |
|   |           | Krishna        | Yadurwadi to Tintini Bridge                                  |  |
|   |           | Shimsha        | Yediyar to Halagur   |  |
|   |           | Asangi Nalla   | Along Asangi   |  |
|   |           | Bhima          | Ghanapur to Yadgir   |  |
|   |           | Kumardhara     | Along Uppinangadi  |  |
|   |           | Netravathi     | Uppinangadi to Mangaluru                                     |  |
|   |           | Tunga          | Shivamoga to Kudli   |  |

|   |                |             |  |  |
|---|----------------|-------------|--|--|
|   |                | Yagachi     | Along Yagachi, Hassan                      |  |
| 5 | Rajasthan      | Banas       | Along Bisalpur Dam, Swaroopganj, Newta Dam | <p>Representatives of Rajasthan State made presentation on proposed action plan for rejuvenation of river Chambal &amp; main observations of CPCB made during presentation are</p> <ul style="list-style-type: none"> <li>• Achievable water quality goals to be included</li> <li>• Flow of all drains contributing to pollution to be included.</li> <li>• Latest ground water quality w.r.t basic &amp; core parameter as well as heavy metals to be included.</li> <li>• Aspects in compliance to the Hon'ble NGT Orders dated 20.09.2018 and 19.12.2018 such as Flood Plain Zone protection and its management, setting up of bio-diversity parks, Interception and diversion of sewage/industrial effluent carrying drains to CETPs/STPs to be added</li> <li>• Action point-wise definite &amp; specific time lines and budget estimates to achieve the desired water quality goals to be included</li> <li>• Performance Guarantee to be submitted by the State Govt. as per Hon'ble NGT Order dated 08.04.2019</li> </ul> |
|   |                | Chambal     | Sawaimadhopur to Kota                      |  |
| 6 | Andhra Pradesh | Kundu       | Nandyal to Madduru                         | <p>Representatives of Andhra Pradesh State made presentation on proposed action plan for rejuvenation of river Godavari and main observations of CPCB made during presentation are</p> <ul style="list-style-type: none"> <li>• Detailed list of major towns distributaries &amp; major drains contributing to pollution in the catchment of identified river stretches along with a digital map showing details to be included</li> <li>• Flow details of all the drain contributing to pollution to be included</li> <li>• Latest characteristics of water quality of, tributaries, drains and ground water in the catchment area for general and core parameter including heavy metals to be included.</li> </ul>   |
|   |                | Tungabhadra | Manthralayam to Bavapuram                  |  |
|   |                | Godavari    | Rayanpeta to Rajahmundri                   |  |
|   |                | Krishna     | Amravathi to Hamsala Deevi                 |  |
|   |                | Nagavali    | along Thotapalli                           |  |

|   |            |            |                    |  |
|---|------------|------------|--------------------|--|
|   |            |            |                    | <ul style="list-style-type: none"> <li>• Detailed gap analysis w.r.t town-wise sewage management (on the basis of projected population) and waste management such as (MSW, HW, E-waste, biomedical waste, plastic waste) be included.</li> <li>• Achievable water quality goals with timelines required to be included.</li> <li>• Action plans be revised covering all other aspects such as adoption of good irrigation practices/ utilization of treated sewage to minimize abstraction of ground water, FPZ protection and its management, rain water harvesting and ground water recharge, maintaining E-flows and water shed management and setting up of Bio-diversity parks including removal of encroachment along the banks of polluted river.</li> <li>• Action point-wise implementing agency, timelines and budget estimates to be included</li> </ul>  |
| 7 | Puducherry | Arasalar   | Along Karaikal     | <p>Representatives of Puducherry UT made presentation on proposed action in respect of river Chunnambar and main observations of CPCB made during presentation are</p> <ul style="list-style-type: none"> <li>• Latest water quality of polluted river, drains including flow characteristics, as well as Ground water quality in the catchment area to be included</li> <li>• Town- and industry - wise gap analysis with regard to sewage, industrial effluent and waste management such as (Solid waste, Plastic waste, Biomedical waste, E-waste, Construction &amp; Demolition and Hazardous waste management) to be included</li> <li>• Aspects such as Adoption of good irrigation practices, utilization of treated sewage to minimize abstraction of groundwater or use of surface water, Flood plain zone protection and its management, Rain water harvesting/ground water recharge aspects, removal of encroachment as well</li> </ul> |
|   |            | Chunnambar | Along Ariyankuppam |  |

|   |         |         |                                  |  |
|---|---------|---------|----------------------------------|--|
|   |         |         |                                  | <p>as interception &amp; diversion of drains carrying sewage to nearby STPs/ upcoming STPs to be included</p> <ul style="list-style-type: none"> <li>Action point-wise definite time lines to be provided to achieve the desired goals</li> </ul>  |
| 8 | Mizoram | Tiau    | Along Champhai                   | <p>Representatives of Mizoram State made presentation on proposed action in respect of river Tiau and main observations of CPCB made during presentation are</p> <ul style="list-style-type: none"> <li>Projected Population is not considered while making assessment of sewage generation</li> <li>Water polluting industries such as automobile service centres also be covered under Water (Prevention and Control of Pollution) Act, 1974/ Authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and included in the report.</li> <li>Latest ground water quality w.r.t. general and core parameter as well as heavy metals to be included</li> <li>Quantification and detailed gap analysis with respect to waste such as (solid waste, Hazardous waste, Bio-medical waste, E waste, plastic waste and Construction &amp; Demolition waste) and existing infrastructure to be included</li> <li>Achievable goals for restoration of water bodies to be indicated</li> <li>Action point-wise speedy, definite or specific timelines, organization responsible for implementation of action plans and total estimated budget with justification also be included</li> <li>Other aspects in compliance to Hon'ble NGT order such as ground water extraction, adopting good irrigation practices, protection and management of flood plain zone, rain water harvesting, ground water charging, maintaining environmental flow of river, plantation on both sides of river, setting up biodiversity</li> </ul> |
|   |         | Tlawng  | Along Zobawk, Sairang To Bairabi |  |
|   |         | Tuipui  | Along Champhai                   |  |
|   |         | Tuivawl | Along Keifang                    |  |
|   |         | Chite   | Along Armed Veng                 |  |
|   |         | Mat     | Along Serchhip                   |  |
|   |         | Saikah  | Along Lawngtlai                  |  |
|   |         | Tuikual | Along Serchhip                   |  |
|   |         | Tuirial | Along Tuirial, Aizwal            |  |

|   |         |                  |                         |   |
|---|---------|------------------|-------------------------|---|
|   |         |                  |                         | <p>parks on flood plains by removing encroachment to be included</p> <ul style="list-style-type: none"> <li>• Performance Guarantee by the State Govt. to be submitted as per Hon'ble NGT Order dated 08.04.2019</li> </ul>   |
| 9 | Tripura | Burigaon         | Along Bishalgarh        | <p>Representatives of Tripura State made presentation on proposed action plan for rejuvenation of river Tiau and main observations of CPCB made during presentations are</p> <ul style="list-style-type: none"> <li>• Achievable water quality goals within the stipulated timelines to be included</li> <li>• Latest water quality of drains with flow, as well as Ground water assessment in the catchment area to be included</li> <li>• Gap analysis w.r.t generation and existing infrastructure for sewage, industrial effluent and waste management to be clearly indicated.</li> <li>• Action point-wise organization responsible for implementation, definite timeline and the budget estimate to be included</li> <li>• Performance Guarantee by the State Govt. to be submitted as per Hon'ble NGT Order dated 08.04.2019</li> </ul> |
|   |         | Gumti            | Telkajila To Amarpur    |   |
|   |         | Haora            | Agartala To Bishramganj |   |
|   |         | Along Dharmangar | Along Dharmangar        |   |
|   |         | Khowai           | Along Teliamura         |   |
|   |         | Manu             | Along Kailashahar       |   |

In the review meeting, it was also suggested to all the States/UTs that for any activity directed by Hon'ble NGT which could not be included as a part of proposed action plans for rejuvenation of identified

polluted river stretches in the respective States/UTs, in such a case, all the concerned States/UTs are required to file an affidavit seeking exemption for specific activity before Hon'ble NGT with justification seeking exemption of such activity from the Action plan.

Also, the States/UTs are suggested to revise the action plans in light of the discussion and observations (CPCB observation were communicated earlier also) of CPCB and after approval of RRC, actions be completed for ensuring compliance to within the timelines i.e by March 31, 2021 and .action taken reports be submitted by States/UTs periodically to CMC for apprising Hon'ble NGT accordingly.

The Meeting ended with vote of thanks to the Chair.





**CENTRAL POLLUTION CONTROL BOARD**  
(Ministry of Environment, Forest & Climate Change)  
"Parivesh Bhawan", East Arjun Nagar,  
Delhi-110032

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**LIST OF PARTICIPANTS**

| S.No                                       | NAME                   | ORGANISATION | DESIGNATION      | CONTACT NUMBER | EMAIL  |
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| <b>Review Committee Members</b>            |                        |              |                  |                |  |
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