



Central Pollution Control Board

(Ministry of Environment, Forest & Climate Change, Govt. of India)

Parivesh Bhawan, East Arjun Nagar,

Delhi – 110032

Minutes of 11th Task Team meeting held on May 21, 2020 through Video Conferencing for ensuring compliance to Hon'ble NGT order dated 6.12.2019 passed in OA No 673/2018 in the matter of News Item Published in 'THE HINDU' Titled "More river stretches are now critically polluted: CPCB".

Eleventh meeting of the Task Team was held on 21st May, 2020 through Video Conferencing (VC) with the State Pollution Control Boards (SPCBs) to review and approve, RRC approved & revised action plans (submitted subsequent to 10th Task Team meeting held during 25th & 26th February 2020) for rejuvenation of identified polluted river stretches (PRS) under Priority III & IV categories. Action plans received till May 18, 2020 from 11 States viz., Andhra Pradesh, Assam, Goa, Gujarat, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Madhya Pradesh, Meghalaya and Uttar Pradesh were discussed. Mizoram State could not take part in the meeting due to connectivity issues resulted from cyclone Amphan. The list of participants is enclosed at **Annexure I**.

Sh. A Sudhakar welcomed the members of Task Team and the officials from States for participating in VC Meeting and also informed that the Chairman of Task Team (Dr. Prashant Gargava, Member Secretary, CPCB) was in an urgent meeting and may not be able to participate.

Sh. Brijesh Sikka, Senior Consultant, National Mission for Clean Ganga (NMCG) requested all the States to submit monthly progress reports as per the circulated formats to NMCG & CPCB at the earliest. He also suggested to States to file affidavits with Hon'ble NGT for deletion of any identified polluted river stretches with supporting data or justification as indicated by CPCB in the meetings of Central Monitoring Committee (CMC) chaired by the Secretary, Ministry of Jal Shakti and in previous meetings of Task Team.

Sh. B.Vinod Babu suggested that action plans should also include aspects relating to waste management especially solid waste, plastic waste, bio-medical waste and hazardous waste need to be addressed in plans as per provisions under respective Rules.

Sh. J.C.Babu, Sc. E referred the circulated agenda and requested the States to make brief presentation on proposed action plans for rejuvenation of polluted river stretches (pertaining to P-III or P-IV) covering details on the polluted river stretch, sources of pollution, gap analysis,

proposed action plans, definite timelines to implement proposed action plans, achievable targets, budget estimates and responsible agencies for implementation of approved action plans. The actions taken in response to the observations or remarks of members of 10th Task Team meeting may be presented. He also requested all the States to apprise on the initiatives taken for biomonitoring of polluted rivers in compliance to Hon'ble NGT orders.

Upon detailed deliberations by the Task Team committee members, the recommendations of the task team on the action plans proposed by the States are detailed below: -

S. No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
1.	ANDHRA PRADESH	TUNGABHADRA	<ul style="list-style-type: none"> ▪ Gap analysis for Sewage management to be made based on the projected population for the next 15 years from current year. ▪ Details of Drains, water quality and flow to be included in action plans. ▪ Timeline suggested for STP construction is exceeding the Hon'ble NGT stipulated timelines. ▪ Detailed gap analysis of Hazardous waste management to be included in action plan. ▪ Proposal for Biodiversity parks, action-point wise implementing agencies, total estimated cost, monitoring mechanism of implementation of approved action plans to be included. ▪ As suggested in 10th Task Team meeting, low cost measures such as in-situ remediation of drains to be explored and included in action plan, wherever feasible as interim measures till adequate treatment infrastructure is developed. 	Approved with conditions
2.	ASSAM	BRAHAMPUTRA	<ul style="list-style-type: none"> ▪ Gap analysis of Sewage management to be carried out based on the projected population of at least for 15 years from current year. 	Approved with conditions

S. No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
			<ul style="list-style-type: none"> ▪ Proposal for Biodiversity parks to be included in action plan. ▪ Water quality of river and drains also to be analyzed for faecal streptococci. ▪ Action-point wise definite timelines as per Hon'ble NGT order to be included. 	
3.	GOA	SAL	<ul style="list-style-type: none"> ▪ Water quality of rivers for heavy metals and Biomonitoring parameters to be included. ▪ Details of Drains, water quality and flow to be included in action plans. ▪ Gap analysis for sewage management to be estimated with a projected population of at least for 15 years from base year 2019. ▪ As per the data provided, influent BOD of STP is reported as 600 mg/l and after treatment, BOD is reported as 3.2 mg/l at outlet. Data needs verification. ▪ Existing STPs are under-utilized. Plans for I & D be explored for 100% capacity utilization of existing STPs. ▪ Water quality data of Ground water in the catchment area to be included. ▪ Gap analysis w.r.t Municipal solid waste need to be detailed ▪ Action plan for Rain Water Harvesting to be included 	Approved conditions with

S. No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
			<ul style="list-style-type: none"> ▪ As suggested in 10th Task Team meeting, feasibility of adoption of other non-conventional techniques such as constructed wetlands also be explored for inclusion in the action plan 	
4.	GUJARAT	DHADAR	<ul style="list-style-type: none"> ▪ Latest water quality data of River to include Fecal Coliform and Total Coliform, FSC in MPN/100mL (data needs validation as FC is reported more than TC) ▪ Treatment capacity is proposed considering the present gap and future requirement of 5 years taken, while general practice is 15 years i.e., 2035. ▪ Action Plan for in-situ bioremediation of drains and bio-mining of dumpsite is not envisaged as populated places are far from polluted river stretch-Dhadar. ▪ Action plan for ground water recharging, rain water harvesting, provisions for maintaining E-Flow in river, Bio-diversity park, good irrigation practices in the catchment of river, utilization of treated sewage also be included. ▪ For rural areas where STPs are not feasible, other low-cost treatment options be adopted. ▪ Proposed timelines for implementation of action plans to be in line with the Hon'ble NGT orders. ▪ As suggested in 10th task team meeting, action plan related to aspects such as protection and management of flood plain zone, water shed management, plantation 	Approved Conditions. with

S. No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
			<p>on both sides of the river, setting up of bio-diversity parks be included.</p>	
5.	HIMACHAL PRADESH	SIRSA	<ul style="list-style-type: none"> ▪ Detailed gap analysis for Sewage management to be made considering the projected population including for 15 years from base year, 2019. ▪ Drains contributing to pollution in river Sirsa also be analysed for heavy metals, FC, TC and FSC. ▪ Proper functioning and O&M of CETP at Baddi is crucial for improving river water quality. The ongoing improvement measures need early completion. ▪ There is no proposal for water-shed management in catchment area of river Sirsa. ▪ Treated water from STPs proposed to be utilized for irrigation purposes. In-situ remediation of drains as interim measure, not proposed. ▪ Total estimated budget not mentioned, but indicated as Department's own budget. ▪ HP State informed that proposed action plans will be completed by March 2021. 	Approved with Conditions.
6.	JAMMU & KASHMIR	CHUNT KOL	<ul style="list-style-type: none"> ▪ Water quality of river including FC, TC and FSC and water quality of drains (for General parameters and heavy metals) also be included. Also, requirement of additional capacity for STPs may be arrived after assessment of actual sewage flow in drains. 	Approved with Conditions.

S. No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
			<ul style="list-style-type: none"> • Detailed gap analysis for Sewage management and solid waste to be made considering projected population of 15 years. ▪ Existing STPs are under-utilized. Plan for I & D of sewage from drains to ensure 100% capacity utilization of the existing or proposed STPs need to be envisaged while sewerage system is developed. ▪ Boat houses to have arrangement for on-site collection and temporary storage / treatment for solid waste. Feasibility of using bio-toilets need to be explored ▪ Action plan also should include, utilization of treated sewage from STPs, periodic cleaning of river banks, flood plain zone protection measures, e-flow, rain water harvesting measures also be included. ▪ Repair/ Upgradation of existing STPs to be ensured by March 2021. ▪ Exact timelines for all the action plans to be included in line with Hon'ble NGT orders. 	
7.	JHARKHAND	SUBARNAREKHA	<ul style="list-style-type: none"> ▪ Jharkhand State submitted Revised action plan for only River Subarnarekha, even though three rivers fall in P-IV category. ▪ As per action plan submitted, estimation of sewage generation District-Wise is proposed to be carried out by March 2020; identification and cleaning of drains proposed to be carried out by 	<p>Delayed action from State. Basic requirements need to be addressed in the action plan.</p> <p>It would be difficult for the State to meet the timeline stipulated by NGT.</p>

S. No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
			<p>September 2020 and timeline for completion of action plan is proposed as March 2024.</p> <ul style="list-style-type: none"> ▪ Town-wise gap analysis w.r.t sewage management (considering projected population for next 15 years), Industrial effluent management and Waste management in catchment area of river to be included in action plan. ▪ Water quality of rivers for Heavy Metals also be included in action plan. ▪ In-situ remediation study conducted by NEERI also be included in action plan as interim measure. ▪ Action-plan wise proposed timelines to be included in line with the Hon'ble NGT order. 	<p>State need to revise or improve Action Plan. Hence not recommended at this stage.</p>
8.	KARNATAKA	ARKAVATHI	<ul style="list-style-type: none"> ▪ STPs are constructed to cater the predicted population only upto 2025, but needed to consider projected population of next 15 years. ▪ Maintenance of minimum E-Flow in the river by releasing water from Manchanabele reservoir as suggested in 10th Task Team meeting, need to be explored and included in the action plan. ▪ Water quality of river and all drains with flow and heavy metals also be included. ▪ Provision for utilization of treated sewage as per guidelines to be included. 	<p>Approved with Conditions.</p>

S. No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
			<ul style="list-style-type: none"> ▪ In-situ remediation techniques for drains as suggested in 10th Task Team meeting, also be explored and included. ▪ The Vrishabhavathi river carrying sewage from Bengaluru is major source of pollution of Arkavathi. BWSSB need to complete 150 MLD STP by end of 2020 and ensure all sewage in catchment area is treated upto the standards. ▪ Specific action plan based on detailed gap analysis w.r.t solid waste, plastic waste, bio-medical waste, hazardous waste, C & D waste to be included. ▪ Proposed Flood plain zone protection measures to be included. Proposed time line for development of Bio-diversity parks and plantation is March 2024 against the time lines prescribed by Hon'ble NGT. ▪ All the action plans to be included with budget estimates. 	
9.	MADHYA PRADESH	GOHAD DAM	<ul style="list-style-type: none"> ▪ As suggested in 10th Task Team meeting, MP Govt may apprise Hon'ble NGT for exemption or deletion of this river stretch from the list. ▪ Gap analysis of Municipal Solid Waste, Biomedical Waste, Hazardous Waste and C& D Waste be included ▪ Action plan for aspects such as proposal for Biodiversity parks, plantation, floodplain zone management, removal of encroachments and In- situ Bioremediation of drains be included in action plans. 	<p>River stretch at down side of Gohad Dam is critical, since very little water is released from dam.</p> <p>Action plan approved with conditions.</p>

S. No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
10.	MEGHALAYA	KYRHUKHLA	<ul style="list-style-type: none"> ▪ Meghalaya State submitted revised action plan for only River Kyrhukhla, even though three rivers fall P-IV category. RRC approved action plans to be submitted. ▪ Flow of all drains to be included in the action plan. ▪ Compliance status of ETPs be indicated. ▪ Specific timeline with respect to action for acid mine drainage management to be included. ▪ In-Situ bioremediation is still under planning phase and not implemented yet. ▪ Sanitary landfill development, Bio-mining / remediation of existing solid waste dumpsite, development of bio-diversity park need to be examined for implementation, Budget estimates and the time lines to be included. ▪ Specify definite timelines for all action points within timeline given by Hon'ble NGT i.e., 31.3.2021. 	Approved Conditions. with
11.	UTTAR PRADESH	GOMTI	<ul style="list-style-type: none"> ▪ Water quality of all drains contributing pollution in the stretch need to be indicated with actual flow, FC and heavy metals. ▪ Current status of execution of plan for I&D, tapping of drains, in-situ remediation of drains to be provided. ▪ Details regarding, bio-mining of existing solid waste dumpsite, utilization of treated sewage along with updated status and timelines be included. 	Approved conditions. with

S. No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
			<ul style="list-style-type: none"> ▪ Low cost measures to be explored and included in action plan, wherever feasible as interim measures. ▪ Exact timelines for all action plans to be included as per Hon'ble NGT orders. 	

CPCB Task Team also suggested that

- (i) All the concerned States to revise all the action plans pertaining to Priority III & IV Polluted River Stretches in light of the recommendations of the CPCB Task Team and also covering aspects as per Hon'ble NGT Orders in O. A. No 673/2018 and RRC approved revised action plans be submitted to CPCB *within a month* for further scrutiny by CPCB;

- (ii) The States/UTs which intends to (a) delist river stretches from the identified polluted river stretches and (b) seek additional time for ensuring compliance to the Hon'ble NGT Directions passed in OA No. 673 of 2018, may file reply affidavit before Hon'ble NGT with justification.

RRC approved revised action plans submitted subsequent to 10 Task Team meeting on or before 08.06.2020 by the States (viz., Bihar, Chhattisgarh, Kerala, Mizoram, Nagaland, Odisha, Punjab, Rajasthan, Telangana, Uttarakhand, West Bengal) only will be considered in 12th Task Team meeting tentatively scheduled in II/III Week of June 2020.

Meeting ended with vote of thanks to the Chair.

--00--

List of Participants

- 1.
2. Sh. A. Sudhakar, Scientist 'E', CPCB (Member, Task Team)
3. Sh. B. Vinod Babu, Scientist 'E', CPCB (Member, Task Team)
4. Sh. Brijesh Sikka, Senior Consultant, NMCG (Representative of MoJS/NMCG)
5. Sh. Y. P. Singh, Scientist 'E', CP Division, MoEF&CC (Representative of MoEF & CC)
6. Sh. J. Chandra Babu, Scientist 'E', CPCB (Member Convener)
7. Officials of States
 - Andhra Pradesh
 - Assam
 - Goa
 - Gujarat
 - Himachal Pradesh
 - Jammu & Kashmir
 - Jharkhand
 - Karnataka
 - Madhya Pradesh
 - Meghalaya
 - Uttar Pradesh
8. Ms. Deepty Goyal, SRF, CPCB and
9. Ms. Deepa Kumari, JRF, CPCB, Delhi