



Central Pollution Control Board

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

Parivesh Bhawan, East Arjun Nagar,

Delhi – 110032

Sub: 10th meeting of the Task Team for ensuring compliance to Hon'ble NGT order dated 6.12.2019 in OA No 673/2018 in the matter of News Item Published in 'THE HINDU' Titled "More river stretches are now critically polluted: CPCB" held during 25th to 26th February, 2020 in CPCB, Delhi.

Tenth meeting of the Task Team was held during 25th to 26th February, 2020, 2019 in CPCB, under the Chairmanship of Dr. Prashant Gargava, Member Secretary, CPCB with the officials of State Pollution Control Boards (SPCBs)/ Pollution Control Committees (PCCs) through Video Conferencing for scrutiny and reviewing the proposed action plans for rejuvenation of identified polluted river stretches in Priority III & IV along with action plan for rejuvenation of River Yamuna in Delhi Stretch. Officials of 24 States/ UTs viz., Andhra Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Mizoram, Nagaland, Odisha, Puducherry, Punjab, Rajasthan, Tamil Nadu, Telangana, Uttar Pradesh, Uttarakhand and West Bengal participated in the meeting via Video Conferencing whereas Officials of Jammu & Kashmir and Delhi Govt. attended the meeting in CPCB. Officials of Jharkhand Govt. could not attend the meeting due to technical snag w.r.t. connectivity. List of participants is annexed at **Annexure I**.

Dr. Prashant Gargava welcomed members of the Task Team as well as officials of the States/UTs. Before reviewing the action plans he informed that all action plans should be prepared based on detailed gap analysis w.r.t. Sewage, industrial effluent and Waste management and all States/UTs must adhere to the timelines given by Hon'ble NGT for rejuvenation of Polluted River Stretches i.e. 31.3.2021. He advised that as STPs/ CETPs commissioning may take little longer, natural in-situ treatment systems such as phyto-remediation, constructed wetlands etc. may be applied on drains. He also informed that 15 models as suggested by CPCB for In-situ and Ex-situ treatment are also available on CPCB website. (<https://cpcb.nic.in/openpdffile.php?id=TGF0ZXN0RmlsZS8yODVfMTU4MjYzMjkxN19tZWRpYXBob3RvMjY3MzcucGRm>), which may be referred for feasibility and subsequent adoption.

Members of Task Team were of the view that action plans in respect of P-III to P-V need not necessarily be made in line with action plans proposed for Priority I & II Polluted River Stretches. For river stretches with small habitations in their catchment especially in hilly terrain where installation of STPs are not feasible, option for wastewater treatment like In-situ and Ex-situ remediation techniques such as aerated lagoons, oxidation ponds, constructed wetlands as mentioned by MS may be adopted.

Thereafter, all SPCBs/ PCCs were requested to make detailed presentation on the action plans, covering brief about the polluted river stretch, sources of pollution, gap analysis, proposed timelines to implement action plans, achievable targets, budget estimates and agencies involved for implementation of approved action plans and its monitoring.

The recommendations of the task team on the action plans proposed by States/ UTs are detailed below:

S No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
Day 1: 25th February, 2020				
1.	ANDHRA PRADESH	KUNDU	<p>Observations:</p> <ul style="list-style-type: none"> RRC approved revised action plan incorporating recommendations made in 9th Task Team meeting held on 27.12.2019 not submitted to CPCB. However, presentation made on revised action plan pertaining to Kundu River. <p>Suggestions:</p> <ul style="list-style-type: none"> Flow and characteristics of all drains to be included Water Quality data indicate short term measures are needed in order to achieve Bathing Water Quality Effluent generated by Automobile service centers, HCFs and other small scale industries should also be covered while estimating the industrial effluent generation. Low cost measures such as In-situ remediation of drains to be explored and included in action plan, wherever feasible as interim measures. 	<p>Not Recommended</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC</p>
2.	ASSAM	BRAHAMPUTRA	<p>Observations:</p> <ul style="list-style-type: none"> Timeline suggested for preparation of DPR for installation of STP only; Specific timelines not proposed in the Action plan In-Situ Remediation of drains not proposed Funding agencies not specified in all action points <p>Suggestions:</p> <ul style="list-style-type: none"> Achievable targets to be specified. 	<p>Not Recommended</p> <p>State Govt. may seek additional time from Hon'ble NGT, if required.</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>

S No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
			<ul style="list-style-type: none"> Water Quality of all identified drains to be included Action taken against the industries to be updated Water Quality data indicate short term measures needed in order to achieve Bathing Water Quality. In-situ and Ex-situ remediation techniques be included in action plan Exact timelines be quoted for implementation all action points 	
3.	BIHAR	SIRSIA	<p>Observations:</p> <ul style="list-style-type: none"> In Situ Bioremediation of drains not proposed Exact timelines with Budget estimates, implementing agencies not provided Water quality of drains for Heavy Metals not included <p>Suggestions:</p> <ul style="list-style-type: none"> Water Quality data indicate short term measures are needed in order to achieve Bathing Water Quality In-situ and Ex-situ remediation techniques be included in action plan Achievable target to be indicated Issue relating to pollution from Nepal international boundary also be taken up with Ministry of External Affairs by Bihar State Govt. 	<p>Not Recommended</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>
4.	CHHATTISGARH	HASDEO	<p>Observations:</p> <ul style="list-style-type: none"> Chhattisgarh Govt. informed that sewage is the main source of pollution. Current Water quality of polluted river and drains 	<p>Not Recommended</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team</p>

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			<p>contributing to pollution not provided</p> <ul style="list-style-type: none"> Detailed gap analysis for Sewage, industrial effluent and waste management not presented before the CPCB Task Team <p>Suggestions:</p> <ul style="list-style-type: none"> Detailed gap analysis along with action plan to meet gap be incorporated 	and be submitted to CPCB after approval of RRC before 10 th March
5.	GOA	SAL	<p>Observations:</p> <ul style="list-style-type: none"> Goa Govt. informed that Solar operated aerators are being installed as DO control measures in River Sal Bio-mining of Legacy waste is proposed In-situ remediation of drains not proposed Action plan for Flood Plain Zone management not included and stated Action plan for E-Flow maintenance is not required in case of River Sal as per Goa State. <p>Suggestions:</p> <ul style="list-style-type: none"> Feasibility of adoption of other non-conventional techniques such as constructed wetlands also be explored for inclusion in the action plan 	<p>Not Recommended</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>
6.	GUJARAT	DHADAR	<p>Observations:</p> <ul style="list-style-type: none"> Gujarat Govt. informed that there is no industrial discharge in River Dhadar. However, details of industries are included in action plan. Detailed gap analysis for all towns, industries in the catchment along with Solid Waste management not provided. 	<p>Not Recommended</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>

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			<p>Suggestions:</p> <ul style="list-style-type: none"> Information submitted in action plan to be verified and action plan to be prepared on the basis of detailed gap analysis Specific action plans for rejuvenation of Polluted River Stretches such as Flood Plain Zone management, maintaining E-flow, greenery development, Adoption of good irrigation practices, utilization of treated sewage, development of bio-diversity parks and removal of encroachments not covered in action plan Achievable target to be specified 	
7.	HIMACHAL PRADESH	SIRSA	<p>Observations:</p> <ul style="list-style-type: none"> HP Govt. will submit revised Action Plan within a week after Task Team meeting Gap analysis carried till Year 2020. <p>Suggestions:</p> <ul style="list-style-type: none"> Water Quality data need to be reviewed Projection of 15 years be taken into account to make detailed gap analysis. 	<p>Not Recommended</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>
8.	JAMMU & KASHMIR	CHUNT KOL	<p>Observations:</p> <ul style="list-style-type: none"> Projected population not taken into account. (calculations done as per year 2011) Water quality data w.r.t Bacteriological parameters not included <p>Suggestions:</p> <ul style="list-style-type: none"> Action plan for Sewage management to be focused Projection of 15 years be taken into account to calculate the gap. In-situ and Ex-situ remediation techniques be explored and included 	<p>Not Recommended</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>

S No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
9.	JHARKHAND	SANKH	-	-
10.	KARNATAKA	ARKAVATHI	<p>Observations:</p> <ul style="list-style-type: none"> BWSSB claim that no untreated waste water will be discharged into river streams from Bengaluru city. Same will be ensured by end of year 2020. Detailed gap analysis for industrial effluent management, waste management not addressed <p>Suggestions:</p> <ul style="list-style-type: none"> Action plan of sewage management for Bengaluru (Vrishabhavathi River Catchment) to be included Karnataka Water Resource Department be approached for releasing water from Manchanabele reservoir for maintenance of minimum E-Flow in the river. Detailed gap analysis for industrial effluent management, waste management to be included Stringent actions to be taken to ensure proper O & M of STPs In-situ and Ex-situ remediation techniques be explored 	<p>Not Recommended</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>
11.	KERALA	BHARATHAPUZHA	<p>Observations:</p> <ul style="list-style-type: none"> No sewerage system in the catchment, no STPs present Action plan submitted for septage management <p>Suggestions:</p> <ul style="list-style-type: none"> Water Quality data to be reviewed as BOD & COD spikes abnormally Sewage generation on the basis of projection of 15 years be calculated Bio-mining of existing dumpsite to be included 	<p>Not Recommended</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>

S No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
			<ul style="list-style-type: none"> Utilization of treated sewage to be included In-situ and Ex-situ remediation techniques be explored 	
12.	MADHYA PRADESH	SONE	<p>Observations:</p> <ul style="list-style-type: none"> MP Govt officials informed that River Stretch of Sone is complying to the bathing water quality criteria hence no action is required. 	<p>Task Team suggested that MP Govt. should file an affidavit in Hon'ble NGT with supporting data for exemption or deletion of river stretch from the list.</p> <p>Action plans for remaining 3 river stretches will be reviewed in next Task Team meeting.</p>
13.	MAHARASHTRA	PENGANGA	<p>Observations:</p> <ul style="list-style-type: none"> Proposed timeline for Implementation of action plans is not within the timelines stipulated by NGT <p>Suggestions:</p> <ul style="list-style-type: none"> Maharashtra Water Resources Regulatory Authority be approached for releasing water for maintenance of minimum E-Flow in the river. Other techniques such as constructed wetlands may be explored wherever feasible 	<p>Recommended subject to implementation of action plans as per timelines prescribed by Hon'ble NGT.</p> <p>State Govt. may seek additional time from Hon'ble NGT, if required.</p>
Day 2: 26th February, 2020				
14.	MEGHALAYA	KYRHUKHLA	<p>Observations:</p> <ul style="list-style-type: none"> Officials of Meghalaya Govt. informed that a Pilot Project has been initiated for Bioremediation of Low pH acid bearing waste water. Projected population quoted is half of population in Year 2011. <p>Suggestions:</p> <ul style="list-style-type: none"> Action plans to be revised by exact assessment of the problems associated with pollution sources of River 	<p>Not Recommended</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>

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			Kyrhukhla including detailed gap analysis along with specific timelines to address the gap.	
15.	MIZORAM	TIAU	<p>Observations:</p> <ul style="list-style-type: none"> Officials stated that Water quality data indicated water quality non-complying to Bathing water quality in one or two occasions during 2 years. RRC approved and revised Action plan after incorporating the recommendations made in last review meeting not submitted to CPCB However, presentation made on revised action plan. Action plan presented was made for Grey Water management only. <p>Suggestions:</p> <ul style="list-style-type: none"> In-situ remediation of drains be included Low cost waste stabilization ponds be included as option for septage management in action plan. Specific timelines to be reported 	<p>Task Team suggested that Mizoram Govt. should file an affidavit in Hon'ble NGT with supporting data for exemption or deletion of river stretch from the list of PRS.</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>
16.	NAGALAND	DZUNA	<p>Observations:</p> <ul style="list-style-type: none"> Action plan does not include detailed gap analysis Aspects such as maintaining E-flow, greenery development, Adoption of good irrigation practices, utilization of treated sewage, development of bio-diversity parks and removal of encroachments not covered in action plan <p>Suggestions:</p> <ul style="list-style-type: none"> Action plan to be revised covering detailed gap analysis w.r.t. Sewage Management, Industrial effluent Management and Waste Management along other aspects as mentioned in Hon'ble NGT orders. 	<p>Not Recommended</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>

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17.	ODISHA	KATHAJODI	<p>Observations:</p> <ul style="list-style-type: none"> Odisha Govt informed that by June 2020, no waste water will reach River Kathajodi. Projected population not taken into account. (calculations as per year 2011) Proposed timeline for Implementation of action plans is not within the timelines stipulated by NGT <p>Suggestions:</p> <ul style="list-style-type: none"> Projection of 15 years be taken into account to calculate the gap. Upgradation of existing Oxidation Ponds be included Measures for controlling Open Defecation to be included in action plan Timelines suggested to be revised according to NGT stipulated timelines 	<p>Not Recommended</p> <p>State Govt. may seek additional time from Hon'ble NGT, if required.</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>
18.	PUDUCHERRY	ARASALAR	<p>Observations:</p> <ul style="list-style-type: none"> Action plan covers short term low & cost measures for effective management of waste in the catchment with shorter time frame. 	<p>Recommended</p>
19.	PUNJAB	KALI BEIN	<p>Observations:</p> <ul style="list-style-type: none"> Action plan for Kali Bein river stretch merged with River Beas. <p>Suggestions:</p> <ul style="list-style-type: none"> Action plan Kali Bein to be prepared separately and be submitted to CPCB before 10th March. Performance assessment of STPs/ Waste Stabilization Ponds (WSPs) in the catchment to be reviewed and upgradation of non-complying STPs/ WSPs to be included in the action plan For Action plan of River Beas, Punjab Govt. may file an 	<p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC</p>

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			affidavit in Hon'ble NGT with supporting data for deletion of river stretch from the list of PRS.	
20.	RAJASTHAN	BANAS	<p>Observations:</p> <ul style="list-style-type: none"> • One action plan submitted for both river Chambal and river Banas • Flow of all drains contributing to pollution not included. • Reported Water quality data of River Banas at Bisalpur dam (BOD- 13.2 mg/l) to be verified • Gap analysis for Industrial Effluent Management, Municipal Solid Waste not provided <p>Suggestions:</p> <ul style="list-style-type: none"> • Water quality data for River Banas to be reviewed. • Digital map showing exact location of Newta Dam along with major towns & industrial estates to be included • Gap analysis with projection upto 15 years be included in action plan • Officials from Rajasthan Environment Department may appear in CPCB in person for providing clarification 	<p>Not Recommended</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>
21.	TAMIL NADU	BHAVANI	<p>Observations:</p> <ul style="list-style-type: none"> • Tamil Nadu Govt stated that Water quality is complying to the Bathing water quality criteria and may be deleted from list of polluted river stretches • Timelines stated are exceeding the timeline given by Hon'ble NGT <p>Suggestions:</p> <ul style="list-style-type: none"> • Details to be included in action plan regarding 36 outfalls whether all carrying sewage only or both sewage and sullage. 	<p>Recommended subjected to conditions</p> <p>Tamil Nadu Govt. may file an affidavit in Hon'ble NGT with supporting data for exemption or deletion of river stretch from the list.</p>

S No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
			<ul style="list-style-type: none"> Justification with respect to non-requirement of secured landfill site after bio-mining of legacy waste be clearly included in action plan 	
22.	TELANGANA	MANER	<p>Observations:</p> <ul style="list-style-type: none"> Telangana Govt informed that polluted stretch of River Maner is from Karimnagar to Lower Maneru Dam (LMD), Somanpalli instead of Warangal to Somanpalli Funding agencies and timelines not provided in all action points <p>Suggestions:</p> <ul style="list-style-type: none"> Water quality data of River Maner be rechecked with regard to Fecal Coliform Interventions like In-situ remediation of drains be included Funding agencies along with definite timelines to be specified in all action points 	<p>Not Recommended</p> <p>State Govt. may seek additional time from Hon'ble NGT, if required.</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>
23.	UTTAR PRADESH	GOMTI	<p>Observations:</p> <ul style="list-style-type: none"> Detailed gap analysis for Sewage management, I & D of major drains not included in the action plan. Aspects such as maintaining E-flow, greenery development, Adoption of good irrigation practices, utilization of treated sewage, development of bio-diversity parks and removal of encroachments not covered in action plan Action point-wise specific timelines & budget not covered <p>Suggestions:</p> <ul style="list-style-type: none"> Gap analysis with projection up to 15 years be included in action plan Performance assessment of existing infrastructure be 	<p>Not Recommended</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>

S No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
			<p>included (w.r.t. STP at Lucknow)</p> <ul style="list-style-type: none"> • Small interventions like Bio-remediation of drains to be included. 	
24.	UTTARAKHAND	KALYANI	<p>Observations:</p> <ul style="list-style-type: none"> • Detailed Gap analysis w.r.t sewage, industrial effluent management and waste management and requisite infrastructure (STP/ETP/CETP) along with their operational Status not included <p>Suggestions:</p> <ul style="list-style-type: none"> • Gap analysis with projection up to 15 years be included in action plan • Funds quoted along with timelines for implementation of action points be revised and for seeking additional time, NGT may be apprised. • Funding agencies to be specified in all action points 	<p>Not Recommended</p> <p>State Govt. may seek additional time from Hon'ble NGT, if required.</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>
25.	WEST BENGAL	CHURNI	<p>Observations:</p> <ul style="list-style-type: none"> • Latest water quality of PRS covering all parameters not provided • Projected population not taken into account for assessment of sewage generation. • Detailed gap analysis (Town wise/ ULB wise) w.r.t sewage, Industrial Effluent and Waste Management along with infrastructure available not included. • Aspects such as Utilization of treated waste water, Removal of encroachments not covered in action plan • Timelines for construction of STPs is exceeding March, 2021 	<p>Not Recommended</p> <p>State Govt. may seek additional time from Hon'ble NGT, if required.</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>

S No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
			<p>Suggestions:</p> <ul style="list-style-type: none"> • Action plan to be revised adding latest water quality data for the polluted river, major drains with flow and other parameters. • Map showing all the towns, tributaries, drains & industrial estates, contributing to pollution to be included • Gap analysis with projection upto 15 years w.r.t sewage and Waste Management be included in action plan • Actions be initiated against industries functioning without captive ETPs or connection with CETPs. • Aspects such as Utilization of treated waste water, Removal of encroachments also be included 	
26.	DELHI	YAMUNA	<p>Suggestions:</p> <ul style="list-style-type: none"> • Delhi Govt. to provide action point and department wise progress made on the suggestions given by CPCB in 9th task team meeting held on 27.12.2019. • As timelines specified are open ended, timelines for implementation of all action points to be included as per NGT orders in O. A. No 6/2012 and OA No. 673/2018 are to be examined and if found outside stipulated timeline, then NGT may be apprised for seeking approval of additional time after 31st March, 2021 by Delhi Govt. • Cost estimates and summary table of action plans to be incorporated • Interventions such as bio-remediation of drains, 	<p>Recommended subject to revision of action plan as per suggestions given by Task Team</p> <p>Delhi Govt. may seek additional time from Hon'ble NGT, if required.</p> <p>Action plan to be revised incorporating suggestions of CPCB Task team and be submitted to CPCB after approval of RRC before 10th March</p>

S No	State	River Stretch reviewed	Observations and Suggestions of Task Team	Recommendations of the Task Team
			<p>Bio-mining of existing municipal legacy dumpsites to be included.</p> <ul style="list-style-type: none"> • Delhi Govt. to ensure that all proposed new STPs/ upgraded STPs to comply with BOD <10 mg/l. • Revised action plan approved by RRC to be submitted to CPCB by Delhi State by 10th March, 2020. 	

CPCB Task Team suggested all States/UTs to revise action plans reviewed in the meeting along with other action plans pertaining to Priority III & IV Polluted River Stretches in light of the recommendations of the CPCB Task Team covering aspects as per Hon'ble NGT orders in O. A. No 673/2018 and RRC approved revised action plans be submitted to CPCB for further scrutiny by CPCB Task Team.

It was also suggested that the action plans prepared must adhere to timelines stipulated by Hon'ble NGT and for extension of timeline, States/UTs may apprise Hon'ble NGT with justification and seek additional time.

Meeting ended with vote of thanks to the Chair.

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List of Participants

1. Dr. Prashant Gargava, Member Secretary, CPCB (Chairman, Task Team)
2. Sh. B. Vinod Babu, Scientist 'E', CPCB (Member, Task Team)
3. Sh. A. Sudhakar, Scientist 'E', CPCB (Member, Task Team)
4. Sh. S. K. Srivastava, Addl. Director, NRCD (Representative of MoJS)
5. Sh. Brijesh Sikka, Consultant (Representative of NMCG)
6. Sh. Saumyasib Mukhopadhyay, Sr. Envi. Specialist (Representative of NMCG)
7. Sh. J. Chandra Babu, Scientist 'E', CPCB (Member Convener)