

**One day workshop on  
“Execution of Action Plan for Polluted River  
Stretches”  
under National Hydrology Project**



**राष्ट्रीय जल विज्ञान परियोजना  
NATIONAL HYDROLOGY PROJECT  
Hotel Citadel, Bengaluru  
July 17<sup>th</sup>, 2019**



**Central Pollution Control Board,  
Regional Directorate (South), Bengaluru**

## Background

National Hydrology Project is a Central Sector Scheme with Budget Outlay about Rs. 3,640 Crore, with World Bank Assistance for project duration of 8 years being implemented in India by Ministry of Water Resources. There are 49 Implementing Agencies (including 10 from Central Government and 39 from States) with an objective to improve the extent, quality, and accessibility of water resources information, decision support system for floods and basin level resource assessment/planning and to strengthen the capacity of targeted water resources professionals and management institutions in India. Components of NHP include Water Resources Monitoring Systems, Water Resources Information Systems, Water Resources Operations and Planning Systems and Institutional Capacity Enhancement.

## Introduction

The one day workshop on “Execution of Action Plan for Polluted River Stretches” under National Hydrology Project was organised by Central Pollution Control Board (CPCB) on 17th July 2019 at Hotel Citadel, Bengaluru.

The Chief Guest, Sh. Manoj Kumar, IFS, Member Secretary, Karnataka State Pollution Control Board (KSPCB) inaugurated the workshop along with Sh. S. Suresh, Regional Director, CPCB, Bengaluru, Dr. M. Madhusudanan, Regional Director (Chennai), CPCB



and Smt. Suprabha P. Marathe, Deputy Commissioner (Environment), Municipal Corporation of Greater Mumbai by lighting the ceremonial lamp.

Sh. S. Suresh RD(S) welcomed the delegates from western and southern region of the country, introduced the participants to the National Hydrology Project and the agenda of the workshop. It was informed to the delegates that as per Hon’ble NGT directions in OA 673/2018, it is the responsibility of all stakeholders to create awareness and train all those



people who are involved in preparation of action plan. It was urged to all the stakeholders to monitor the action plan and that each state shall be separately reviewed by Hon’ble NGT to check upon their preparedness and the status of implementation.

Dr. M. Madhusudanan delivered the inaugural address by starting off with the startling realisation that climate change and zero day, terms which were unheard of before are now becoming common terminology. It was further described that

the rainfall usage gap and stated facts on the factors responsible for pollution of our water resources. The water pollution was mainly attributed to the huge amount of untreated

sewage and municipal solid waste dumped in water bodies. The network of water quality monitoring stations, started in 1976 on river Yamuna now stretch all across the country with around 4022 stations at present. Several national and state level bodies are stakeholders in the implementation of a river rejuvenation action plan and they must have a pro-active role in the same. Dr. Madhusudanan also informed the delegates



that as per NITI Aayog, 21 cities will face an acute water crisis by 2020 and all major Indian cities are in that list. All the delegates were requested to review the Model dashboard and guidelines for river rejuvenation that CPCB has prepared and provide comments on the same.

Sh. Manoj Kumar, the chief guest for the inauguration ceremony made the keynote address. He described how rivers have played an important role in our civilization and when people gradually drifted away from the rivers, the pollution increased.



River conservation is an important aspect that each of us needs to be concerned about. River rejuvenation plans are often lacking in implementation and thus need to be fine-tuned appropriately depending on site-specific conditions. Being the MS of KSPCB, he emphasized the need of implementation, adequately equipping the SPCBs, and creating awareness

without which the implementation of an action plan would never be successful.

### Technical Sessions by CPCB Officials:

Sh. S. Karthikeyan kicked off the technical session by describing the rainfall usage gap in India i.e. the fact that India gets 40 rain days in a year but due to poor water management, only 15% of that rain water is used. Water Act mandates to maintain the pristine quality of water and restore wholesomeness of National Aquatic Resources. However that goal is a distant reality due to huge amounts of untreated domestic sewage dumped in water bodies and absence of adequate collection mechanism. It is an extremely distressing fact that despite pro-active monitoring by multiple bodies and increasing awareness, the no. of polluted water stretches has increased from 10 in 1988-1989 to 351 at present. Presently, river stretches have been classified on the basis of BOD levels in five priorities. During 2018 CPCB has added FC also to classify the polluted river stretches.





The next session by Sh. R. Rajkumar discussed the Action Plan on rejuvenation of River Thirumanimutharu (Salem to Papparapatti Stretch). As per OA 51/2015, Hon'ble NGT has instructed Pollution Control Boards and the Joint committee appointed by the tribunal to submit a detailed report on pollution and related compensation for Thirumanimutharu river.



The river is episodic, non-perennial river (105 kms) and merges with Cauvery. Sh. Rajkumar discussed the shortcomings of the action plan submitted by the Tamil Nadu government. Some shortcomings regarding the non-compliance of industries with discharge standards, inadequate explanations regarding outfalls, solid waste disposal plants, maintain e-flows, flood plains and lacking plans for improving ground water quality and rehabilitation of encroachments were explained. The Recognition phase i.e. the first phase of the preparation of an action plan which requires all data historical and present, with the help of local bodies was discussed. This database was incomplete in the mentioned case. Sh. Rajkumar also pointed out that technical information in restoration phase which can be used for river modeling is lacking in most action plans.

Dr. B. S. Anupama presented a case study on the pollution issues of Musi River, AP, conducted as per orders of Hon'ble NGT in OA 426/2018. There are two dams built on Musi river - Osman Sagar and Himayat Sagar. Both these reservoirs constitute the major drinking water sources for Hyderabad city. As per classification criteria for polluted river stretches, River Musi falls under Priority-I. Objective of the study is to evaluate the STPs and hygienic survey monitoring of the river. The preliminary outcomes of the study yielded the result that only 49% of the sewage generated from the city is being treated. The rest is going untreated into the river. Moreover,



majority of STPs are operating without consent and untreated sewage passing into river directly. It was also observed that there is a need to establish Faecal Sludge Treatment Plants. The Hygienic survey conducted was aimed at testing river water for presence of Bacteria harmful to human health and gives an insight into the linkage of pharmaceutical industrial pollution on antimicrobial resistance and its consequences on human health. The studies in progress showed that harmful microbes have been identified along the Musi river stretch apart from coliform bacteria and that a few pathogens have developed antimicrobial resistance to antibiotics tested.

Sh. Shashikant Lokhande Scientist D from CPCB, Vadodara (west) briefly apprised the



delegates about the status of action plans regarding polluted river stretches by the governments of Gujarat, Maharashtra, Daman Diu and Dadra & Nagar Haveli. Stress was put on the importance of regularly sharing information on status/progress of implementation of the action plan from all concerned

implementation agencies. The regular update must include the progress of actual action taken by undertaking field visits to the Polluted stretches and outcome of discussion during the River Rejuvenation Committee meetings, coordination meetings with CPCB and the meetings called by the Chief Secretary.

The last technical session by CPCB officials was presented by Smt. Anjana Kumari V, Sc D. She started the discussion by stating the facts regarding the status of polluted river stretches in southern zone and the respective water quality monitoring stations. As per Hon'ble NGT directions in OA 673/2018, States & UTs shall prepare action plan within two months for bringing down all PRS to be fit at least for bathing purposes within six months from the date of finalisation of the action plans and the Chief Secretary/ Administrators /

Advisors to Administrators shall be held personally accountable for failure to formulate action plan. The River Hindon- Action Plan to be adopted as a model was discussed along with trends of several rivers in southern zone. It was emphasised that there is a need to lay down proper realistic timelines for each



stage of the action plan. Each phase of the plan for rejuvenation of water bodies i.e. Identification and Recognition of problem, Restoration, Protection, Improvement and Sustenance was explained in-depth. The case of river Karamana in Kerala was discussed as a success story of river quality improvement, thereby proving it to the delegates that river rejuvenation may be difficult but it is certainly not impossible.

### **Sessions by Officials from SPCBs and Municipal Corporations**

Sh. G. H. Trivedi from Gujarat Pollution Control Board described the status of polluted river stretches in Gujarat. It was informed to the delegates that RRC has been constituted on 29/11/2018 and that a budget outlay of Rupees 1930 Crores has been allocated to sewage management alone, thus highlighting the major contribution of domestic sewage in



pollution of water bodies. The proposals conceived by the State of Gujarat, a few of which are to launch programme on biodiversity monitoring with Yamuna Biodiversity Park, Delhi as a model and a Deep sea disposal pipeline Project (DSDP) to comply with Hon'ble NGT order to restore water quality to less than 3.0 mg/L BOD were shared

with the delegates. Sh. Trivedi also shared a success story of utilization of treated sewage in textile industrial cluster located at Pandesara Surat, Gujarat.

The next session by Smt. Suprabha P. Marathe from Municipal Corporation of Greater Mumbai talked about the challenges faced by MCGM during planning and implementation of rejuvenation of Mumbai rivers. She started off by recounting the formation of Mumbai and consequently how the city has grown into a megalopolis with a population of 12.4 million and a floating population of 5 million. There was a discussion about an Integrated Comprehensive River management plan which is vital for reduction in unhygienic conditions, environmental sustenance and River Rejuvenation along the Mumbai's River with objectives of Rejuvenation, Re-naturalization and Preservation. Smt. Marathe ascribed the absence of land and encroachment on the river ways as the main roadblock in rejuvenation of Mumbai's rivers and went on to update the delegates about the Mithi river rejuvenation plan which involves Defining Waterway and creating approaches to River and Sewage, setting up STPs and Biological Treatment Plants followed



by Beautification & River Front Development.



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Sh. Narendra K Modi from Ahmedabad Municipal Corporation presented a success story of the rejuvenation of Sabarmati river in Gujarat. It was described how due to increasing urban pressures sewage used to overflow from sewage pipeline, in spite of City having sufficient coverage of the

sewage system, the river kept on getting polluted. Sabarmati River became inaccessible to



the public. So, the Sabarmati Riverfront Development Project was envisaged to transform the neglected river Sabarmati into a vibrant urban Space. The river was emptied to repair the barrage and the river was cleaned mechanically and manually. Interceptor banks to trap the sewage and reduce the pollution in River Sabarmati were developed. In the last phase, the river was filled with treated water and rainwater.



After this session, representatives from State Pollution Control Boards updated the delegates about the Polluted River Stretches in their state and the action plans regarding their rejuvenation.

Dr. Y. B. Sontakke from Maharashtra Pollution Control Board informed the delegates that number of PRS in Maharashtra has reduced from 2018 to 2019 due to a variety of factors like Increase in Sewage Treatment Capacities of ULBs, Effective operation & maintenance of STPs, Improvement in solid waste management, Regular performance monitoring of STPs, ETPs & CETPs as well as correct sampling technique. Dr. Sontakke felt that definition of polluted river stretch needs to be relooked as it is not apt to define a river as polluted due to non-compliant parameters at a single point. He added that MPCB has reserved funds for

abetment & Control of Pollution of River Water due to sewage & solid waste disposal from Municipal Councils, Nagar Panchayat & Gram Panchayat which are generally overlooked and also briefly described Namami Chandrabhaga Abhiyan, another project to make the Chandrabhaga river pollution free by the year 2022.



Smt. J. Sumathi from Telangana State Pollution Control Board apprised the delegates about the action plan for Telangana which involves identification of STP locations, setup of STPs, and implementation of fecal management with co-treatment facilities at various STPs and Flow measurements of all the drains and calculation of E-flow. There were certain gaps between the sewage generated and the total treatment capacity (Proposed+existing) which are a cause of major concern. A few proposals of TSPCB were also shared with the delegates, i.e. to have solid waste collection drives to create mass awareness and to have mass plantation drives around the riverfront area.



Dr. Mohan Girap from Goa State Pollution Control Board apprised the delegates that there are no Priority-I and Priority-II Polluted River Stretches and that rivers in Goa are perennial, with the stretch from upstream to midstream being freshwater and from midstream to downstream being brackish. He also felt that there was a need to reexamine the classification methodology as polluted river stretch.

### Panel discussion on certain flagged issues

A few common issues raised by participants were taken up in last session for further discussions. The Status of state boards and committees to meet the targets as per Approved Action Plan was deliberated upon first. Dr. Sontakke from Maharashtra Pollution Control Board felt that the timelines laid down in the order of Hon'ble NGT is not sufficient.



It was desired that all concerned stakeholders including the Urban development department of the state may be taken on board so that suitable measures may be taken and realistic timelines may be set.

The second item discussed was about the availability of funds. Most states described the financial condition of their local municipal bodies as dismal. The submission of Performance Guarantee by states to CPCB as per Hon'ble NGT order in OA 673/2018 was also pondered over as a third issue. A few state boards wished to know if a Government guarantee instead of a Bank Guarantee would work. Officials from MPCB expressed difficulty in committing to the Performance guarantee as they are unable to obtain assurances from their state departments (Revenue, Urban development, Irrigation, WRD, etc.) regarding the implementation of the action plans.

Utilisation of treated water was the fourth item on the agenda. State Boards elaborated upon the STPs already existing in their state sending treated water to industries. They also informed the delegates about proposals to establish more such STPs.



The last point discussed was that of septage management. Most State Boards apprised the delegates that this comes under the ambit of separate authorities and not under state boards. The delegates were suggested to visit the septage management site near Devanhalli, Karnataka to obtain useful insight. Important dates and instructions from the competent authority were also conveyed to the delegates. Sh. S. Suresh, Regional Director,



## Workshop on "Execution of Action Plan for Polluted River Stretches"

CPCB, the moderator of the discussion communicated to the delegates that their concerns will be taken up and suitably deliberated upon with the concerned authorities.

The valedictory session was concluded by vote of thanks by Dr. M. Madhusudanan from



CPCB. He expressed sincere thanks to Sh. S. Suresh, Regional Director- CPCB for all support, the delegates for heartily participating in the workshop and the organising team who worked dedicatedly to make the workshop a success. The overall efforts made by colleagues of RD(S) were highly appreciated. Dr. Madhusudanan summarised the herculean task of river rejuvenation in his closing remarks quoting a slogan of the US Army, "The difficult we do

*immediately. The impossible takes a little longer.*" The event concluded with the distribution of certificates to the delegates.

### Glimpses of the workshop





Workshop on "Execution of Action Plan for Polluted River Stretches"

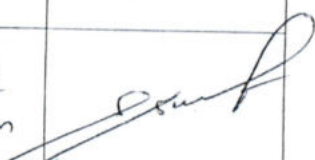



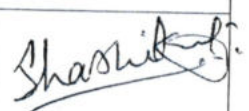





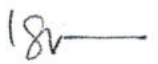

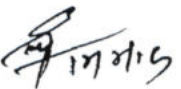


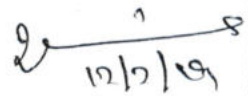


CENTRAL POLLUTION CONTROL BOARD  
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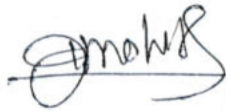

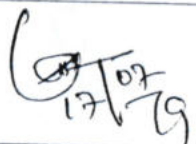


Workshop On "Execution of Action Plan for Polluted River Stretches"  
in Bengaluru on 17<sup>th</sup> July, 2019

Registration Record

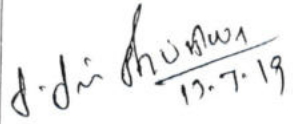
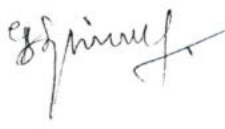



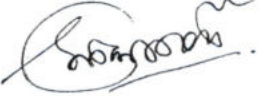
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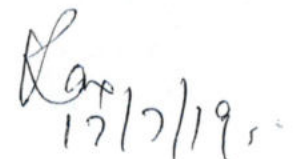
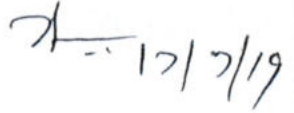

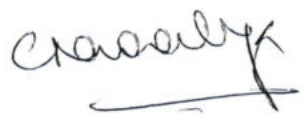
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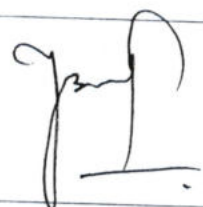

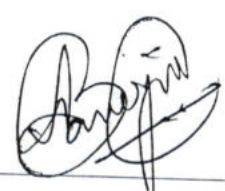

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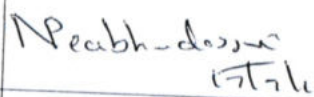
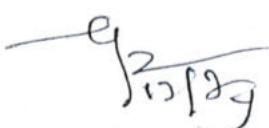

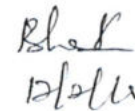


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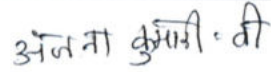
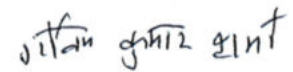

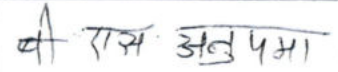


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SPECIMEN COPY



## EXECUTION OF ACTION PLAN FOR POLLUTED RIVER STRETCHES



*One-day workshop organized by  
Central Pollution Control Board  
Regional Directorate, Bengaluru  
under*



राष्ट्रीय जल विज्ञान परियोजना

**NATIONAL HYDROLOGY PROJECT**



MoWR, RD&GR  
Government of India

## CERTIFICATE

This is to certify that Dr/Mr/Ms/Mrs.....has attended  
One-day workshop 'Execution of Action Plan for Polluted River Stretches' Organized by Central Pollution  
Control Board, Regional Directorate, Bengaluru under the National Hydrology Project (NHP) in  
Bengaluru on July 17, 2019

Dr. M Madhusudanan  
Regional Director(Chennai), CPCB

*Awarded On  
July 17, 2019*

S Suresh  
Regional Director(Bengaluru), CPCB