

J-19011/1/2009-NRCD-II/231
National Mission for Clean Ganga
Ministry of Water Resources, River Development & Ganga Rejuvenation
Government of India

3rd Floor, Rear Wing
Doorsanchar Sadan, 9, CGO Complex
Lodi Road, New Delhi - 110003
Dated: 15th July, 2016

OFFICE MEMORANDUM

**Subject: Minutes of the 6th National Ganga River Basin Authority (NGRBA)
meeting held on 4th July 2016**

A copy of the minutes of 6th NGRBA meeting held on 4th July 2016 under the chairmanship of under the Chairmanship of Hon'ble Union Minister of Water Resource, River Development and Ganga Rejuvenation is forwarded herewith for kind information/necessary action.

Encl: As stated



(Dr. Rajat Bhargava)
Joint secretary & Mission Director, NMCG

To

1. PS to Hon'ble Minister of Shipping, Transport Bhawan, 1, Parliament Street, New Delhi-110001
2. PS to Hon'ble Minister of Finance, North Block, New Delhi-110001
3. PS to Hon'ble Minister of Water Resource, River Development and Ganga Rejuvenation, Shram Shakti Bhawan, New Delhi-110001
4. PS to Hon'ble Minister of Environment and Forests & Climate Change, Indira Paryavaran Bhawan, New Delhi-110003
5. PS to Hon'ble Minister of Urban Development, Nirman Bhawan, Maulana Azad road New Delhi-110018
6. PS to Hon'ble Minister of Power, Shram Shakti Bhawan, New Delhi-110001
7. PS to Hon'ble Minister of Science and Technology, Technology Bhavan, New Mehrauli Road, New Delhi - 110016
8. PS to Hon'ble Minister for Rural Development, Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi - 110001
9. PS to Hon'ble Minister of Drinking Water and Sanitation, C Wing, 4th floor, Paryavaran Bhawan, CGO Complex Lodhi Road, New Delhi - 110003
10. PS to Hon'ble Minister of Tourism, Transport Bhawan, 1, Parliament Street, New Delhi-110001
11. PS to Vice Chairman, Niti Ayog, Yojna Bhawan, New Delhi
12. PS to Chief Minister of Uttarakhand, 4 Subash Road, Uttarakhand Secretariat, Fourth Floor New Building, Dehradun, Uttarakhand, Pin Code 248001
13. PS to Chief Minister of Uttar Pradesh, Chief Minister's Office, Section-I, Lal Bahadur Shastri Bhawan, Lucknow-226001
14. PS to Chief Minister of Bihar, Main Secretariat, Patna
15. PS to Chief Minister of Jharkhand, Chief Minister Secretariat, 3, Kanke Road, Ranchi-834008
16. PS to Chief Minister of West Bengal, NABANNA (14th Floor), 325, Sarat Chatterjee Road, Shibpur, Howrah-711102

17. Secretary, Ministry of Water Resources, Shram Shakti Bhawan, New Delhi-110001
18. Secretary, Ministry of Environment and Forests, Indira Paryavaran Bhawan, New Delhi-110003
19. Secretary, Department Of Expenditure, Ministry of Finance, North Block, New Delhi-11001
20. Secretary, Ministry of Shipping, Parivahan Bhawan, Parliament Street, New Delhi-110001
21. Secretary, Ministry of Urban Development, Nirman Bhawan, Maulana Azad road New Delhi-110018
22. Secretary, Ministry of Power, Shram Shakti Bhawan, New Delhi-110001
23. Secretary, Ministry of Rural Development, Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi - 110001
24. Secretary, Ministry of Drinking Water & Sanitation, C Wing, 4th floor, Paryavaran Bhawan, CGO Complex Lodhi Road, New Delhi - 110003
25. Secretary, Ministry of Tourism, Transport Bhawan, 1, Parliament Street, New Delhi-110001
26. Secretary, Department of Science and Technology, Technology Bhawan, New Mehrauli Road, New Delhi - 110016
27. Chief Secretary, Govt. of Uttarakhand, Uttrakhand Secretariat, 4B Shubhash Road, Dehradun-248001
28. Chief Secretary, Govt. of Uttar Pradesh, Lal Bahadur Shastri Bhawan, UP Secretariat Lucknow-226001
29. Chief Secretary, Govt. of Bihar, Old Secretariat, Patna-800015
30. Chief Secretary, Govt. of Jharkhand, Secretariat, Ranchi-834001
31. Chief Secretary, Govt. of West Bengal, Nabanna, HRBC Building, 325, Sarat Chatterjee Road, Howrah-711102
32. Shri Mohan Singh Rawat, Gaonbasi, NGRBA Expert Member, Jhali Mali Devi Ashram, Kyun Kaleswar, Pauri-Gharwal- 246001
33. Justice Giridhar Malviya, NGRBA Expert Member, 26 AN Jha Marg, George Town, Allahabad- 211002
34. Shri N. Vithal, NGRBA Expert Member, 12, 3rd Floor, Sreela Apartment, Building No.22, Gilcris Avenue, Harrington Road Chetpet, Chennai- 600028
35. Dr. Bhure Lal, NGRBA Expert Member, 67, Lodi Estate, New Delhi-110003
36. Shri Madhav Chitale, NGRBA Expert Member, B-1, Vedant Grihukul Sawarkar Chowk, New Shreya Nagar, Aurangabad- 431005

Internal Circulation:

PS to MD-NMCG /PS to AMD / PS to Dir (F) NMCG/All NMCG Staff

Minutes of the 6th meeting of National Ganga River Basin Authority (NGRBA) held on 4th of July, 2016 in Vigyan Bhawan

The 6th meeting of the National Ganga River Basin Authority (NGRBA) was held on 4th of July 2016 at 11.00 hours. In absence of Hon'ble Prime Minister, the meeting was chaired by Sushree Uma Bharti, Hon'ble Union Minister of WR,RD&GR and Vice chairperson of NGRBA. In this meeting, Hon'ble Minister of Science and Technology Shri Harsh Vardhan, Hon'ble minister of Rural Development, Panchayati Raj, Sanitation & Drinking Water, Chaudhury Birender Pratap Singh, Hon'ble Minister of Tourism (independent charge) Dr. Mahesh Sharma and Hon'ble water resource Minister of Govt. of Bihar Shri Rajiv Ranjan Singh and Hon'ble Minister of Vocational Education & Skill Development Ministry Govt. of UP Shri Abhishek Mishra and Shri Sashi Shekhar, Secretary, MoWR,RD&GR and Member Secretary NGRBA participated. The list of participants is enclosed at **Annexure-I**.

2. Hon'ble Vice Chairman of NGRBA and Minister of WR,RD&GR delivered the welcome address highlighting the details pertaining to present progress status of Namamai Gange programme highlighting various ongoing programme with a special mention to the detailed project report prepared for the afforestation programme by Forest Research Institute (FRI) and special properties ganga water quality conducted by NEERI. She also emphasized on the aspects of Aviral Dhara in the river from the hydropower projects already existing in the river. She also mentioned that Jharkhand has been initiated as a model state and good the projects are been initiated before time. Ganga gram is one of major initiative taken up and gave example of Seechewal model in which more than 200 Sarpanchs from the Gram Panchayats located along Ganga was trained.

3. Joint Secretary and Mission Director, NMCG, WR,RD&GR made a presentation with respect of agenda item no1 and 2 giving details of actions taken so far and future action plans of Namami Gange programme. He mentioned that river surface cleaning activities has already been initiated in 5 locations namely Kanpur, Allahabad, Varanasi, Patna & Mathura-Vrindavan. The programme also initiated at Delhi on Yamuna. Very soon such surface cleaning activities will be initiated at 20 more locations. He further informed that the initial proposals pertaining to modernization/development of ghats, crematoria & village level drains (VLD) treatment have been recommended by empowered steering committee of NGRBA and the tendering process has begun. There are total 1242 ghats, 369 crematoria and 411 VLDs identified so far from the surveys and



it is expected that the works on ghats, crematoria and village level drains treatment will commence from July 2016 onwards. It was also informed that for condition assessment and pre-feasibility study, 59 towns have been surveyed so far and 27 pre-feasibility reports prepared and received. 50 more such PFRs are expected by July 2016. In this meeting, the minutes of the last meeting were confirmed along with the review of the current status implementation under Namami Gange Programme. All Members expressed their satisfaction with the present progress and the initiatives taken up. All the states also expressed their support for successful implementation of the programme.

4. During the presentation, the Hon'ble members suggested the following:
- Outcome of the river surface cleaning may be analyzed along with a cost benefit analysis for the taking the surface cleaning machines on rent vis-a vis purchasing for future development.
 - Proper disposal of sludge from STP and CETP need to be tackled following the necessary guidelines so that the sludge should not find its route to Ganga.
 - Quantity wise industrial waste to be calculated. Polluters pay principle may be adopted for the industrial sector including zero liquid discharge. Pollution control board need to be more active for tackling the pollution from the industrial sectors;

5. During the meeting there was a detailed discussion on industrial effluent and its management. CPCB appraised the members about the progress met and indicated that Real time effluent monitoring stations installed in 508 grossly polluted industries (GPIs) and closure notice issued to 150 GPI's. In addition at eight places (8) real time water quality monitoring station are installed and another 105 locations such stations will be installed. CPCB confirmed that within another three months' time more progress will be seen. The present status of activities taken up by CPCB is enclosed in **Annexure-II**.

6. Hon'ble Minister's from the state government made certain observations/intervention as summarized below:

a) Uttar Pradesh (Shri Abhishek Mishra, Hon'ble State Minister for Vocational Education and Skill Development)

- i. The State Government has submitted 32 no. of projects related to STP and I&D works which needs to be considered and decision on approval to be taken at the earliest.



- ii. In order to make synchronization in sewage treatment, Sewerage Network need to be taken up together with the STPs.
- iii. The location of turtle sanctuary at Varanasi is causing damage to the ghats and the same needs to be re-located. Hon'ble Minister of WR,RD&GR indicated that the matter has been returned to MoEF&CC for taking necessary actions in this matter.
- iv. The river surface cleaning through hiring of trash skimmer machines may be very costly and instead the same may be purchased. After discussion on the issue, Vice Chairman, Niti Ayog, summed up that owing to the immediate requirements of river surface cleaning we may go ahead with hiring of machines as planned however for future deployment a detailed cost benefit analysis may be done.
- v. The State Government shall continue to provide the full support to the Namami Gange programme and the proposed Namami Gange Launch programme scheduled to be held on 7th July 2016.
- vi. Some of the projects have been delayed pending permission from railways/defense ministry. Hon'ble minister of WR,RD&GR advised that the details may be sent so that matter can be pursued with relevant central government department.

b) Bihar (Shri Rajiv Ranjan (Lalan) Singh (Hon'ble Water Resource Minister)

- i. Initially 32 towns along river Ganga in Bihar were selected for priority interventions however later the number was restricted to only 20. The remaining towns also needs to be included in the Namami Gange action plan. Hon'ble Minister-WR,RD&GR assured that the aspect would be looked into and all necessary towns will be included.
- ii. River originating from Nepal are causing severe silting in the plains in Bihar causing shifting of river and unexpected events, floods etc. causing hardship and reducing river citizen interaction. There is a need for a detailed study and policy formulation allowing desiltation where ever required. He further suggested that services of Inland Waterways Authority of India (IWAI) can be used wherever required for the dredging works and CWPRS may be used for necessary activities towards Aviral Dhara.



- iii. The pollution problem in Ganga need to be looked after on totality. Only STP and I&D works will not be the solution until and unless sewerage network is not integrated. There is detailed discussion needed in this regard.
 - iv. 14 projects which are already submitted to Govt. of India also need to be sanctioned.
 - v. The State Government shall continue to provide the full support to the Namami Gange programme and the proposed Namami Gange Launch programme scheduled to be held on 7th July 2016.
7. Observations made by other expert members of NGRBA are summarized below:

a) Shri Bhure Lal:

- i. The floating waste should not be allowed to be discharged into river and should be trapped at the STP itself;
- ii. Survey for the existing waste treatment facility against the required capacity need to be done. CPCB may take up such kind of a survey;
- iii. Treatment plant to be installed within the premises of industry for better reuse and recycling of waste water;
- iv. Uninterrupted power supply to the STPs need to be confirmed;
- v. Treated waste water need to be used properly;
- vi. No encroachment in the river's playfield should be allowed and river play field should be protected;
- vii. Unauthorized colonies are increasing the no. of drains discharging directly to Ganga this needs to be controlled;
- viii. Coliform levels need to be tested in upstream of Assi and then the same need to be tasted once it enters Varanasi to see the difference of coliform load due to presence of upcoming colonies.
- ix. Sewage sludge need to be disposed properly so that the same may not be disposed back to river Ganga

b) Shri N Vittal :

- i. Toxicity from the industrial pollution is a critical issue and need to be addressed on priority.
- ii. Decentralized approach for sewage treatment may be taken up;
- iii. For the protection of river Ganga, an act in the lines of NHAI act needs to be notified.



c) Justice Giridhar Malviya

- i. The major pollution problem in river Ganga is from sewage (almost 78%). Therefore care shall be taken that no sewage (treated or untreated) should be disposed to river Ganga.

d) Shri Madhav Chitale:

- i. The frequency for NGRBA meetings need to be increased and a minimum frequency for the meeting need to be decided;
- ii. Local publication on Ganga need to be brought out to create awareness like Narmada Patrika is published in Narmada valley;
- iii. Annual report for Ganga need to be published and be placed in front of Parliament

e) Shri Mohan Singh Rawat Gaon Basi:

- i. Reservoir in Gangotri may create havoc;
- ii. Trekking should not be allowed;
- iii. Bio-toilets need to be taken up along all the villages;
- iv. Pollution abatement in tributaries is also very important and need to be controlled;

f) Ms. Rama Routa:

- i. The river front development project in Gomti river by Up Government have contained the river through walls on both sides which may damage the river and its ecosystem;
- ii. In East Kolkata Wetland which is natural sewage treatment facility the city has from several years is now being encroached and buildings are being constructed. This wetlands supports nearly 50,000 of lower income group people. Construction of such buildings will have direct impact on their livelihood as well as on the natural treatment capacity of the wetland.

g) Shri Mohit Roy:

- i. A day long workshop with the NGOs working for Ganga (e.g. NGOs like Sabuj Mancha) need to be conducted to appraise them regarding the various activities being taken up by Govt. of India
- ii. Conservation activities of Adi Ganga need to be considered which is now being encroached due to construction pillars of Metro Railway in Kolkata.

h) Shri Chandramauli:



- i. Holistic view for sewage treatment need to be taken up and decentralized treatment also may be considered;
 - ii. Plantation in Utrakhand has been degraded it need to be replenished with afforestation especially medicinal plants.
8. During the meeting considering all the issues following decisions were taken:
 - i. All members agreed on preparation of Ganga Act with consent from States and authorized Justice Giridhar Malviya to take lead in drafting the draft legislation on Ganga.
 - ii. For desiltation a committee be formed under the chairmanship of Shri Madhav Chitale (Expert member NGRBA) with Secretary-WR, RD & GR and Secretary-MoEF&CC as members. This committee will form guidelines for works on de-siltation from Bhimgauda (Uttarakhand) to Farakka (West Bengal) and will provide necessary approvals for the desiltation works.
 - iii. In order to check the applicability of various internationally tested and recognized sewage treatment technology, it was agreed that such technologies may be tried and tested on small unidentified nals discharging directly to river Ganga and in its tributaries as pilot projects.
 - iv. All states assured their full support, participation and cooperation for the implementation of the 222 proposed projects & activities and Namami Gange launch programme scheduled to be held on 7th July 2016.
 - v. In the first phase 10 STPs will be taken up for implementation on hybrid annuity based PPP model and tendering process for the same to be initiated by the end of July 2016.
 - vi. During the meeting it was informed (and a copy of the guideline was also circulated in the meeting) that NMCG has already circulated a guidelines for infrastructure projects related to entry level activities and sewage treatment plants to the concerned state governments. As per the guideline the state agencies may also be engaged as executing agencies for implementing infrastructure projects on entry level activities and STP projects on hybrid annuity model. This move was praised by representatives from UP and Bihar and was given consent in the meeting.
9. Hon'ble Vice Chairman and Minister of WR, RD&GR gave a vote of thanks with an urge of support from the state government for successful implementation of Namami Gange.



Annexure-I

List of participants in the 6th meeting of the National Ganga River Basin Authority (NGRBA) held on 27th October 2014 at Vigyan Bhawan, New Delhi.

1. Sushree Uma Bharti, Hon'ble Union Minister of Water Resource, river Development and Ganga Rejuvenation, Vice Chairperson, NGRBA-in Chair
2. Sh. Chaudhary Birender Singh, Minister for Rural Development, Drinking Water and Sanitation
3. Shri Harsh Vardhan, Hon'ble Union Minister of Science and Technology
4. Dr. Mahesh Sharma, Minister of State (Independent Charge), Ministry of Tourism & Culture
5. Shri Mohan Singh Rawat Gaonbasi, NGRBA Expert Member
6. Justice Giridhar Malviya, NGRBA Expert Member
7. Shri N. Vittal, NGRBA Expert Member
8. Dr. Bhure Lal, NGRBA Expert Member
9. Shri Madhav Chitale, NGRBA Expert Member
10. Ms. Rama Routa, NGRBA Expert Member
11. Shri Mohit Roy, NGRBA Expert Member
12. Shri Chandramouli, NGRBA Expert Member
13. Shri Sashi Shekhar, Secretary, WR,RD&GR
14. Sh. Vinod Zutshi, Secretary, Tourism
15. Sh. Arvind Panagariya, Vice Chairman, Niti Ayog
16. Dr. M.M. Kutty, Additional Secretary, MoEF&CC
17. Sh. Rajat Bhargava, JS and MD, NMCG
18. Smt. Aprajita Sarangi, Joint Secretary, Ministry of Rural Development
19. Sh.A.K. Mehta, Chairman CPCB & JS MoEF,CC

Government of Uttarakhand

1. Sh. Asheesh Joshi, Project Director SPMG, , Govt. of Uttarakhand

Government of Uttar Pradesh

1. Sh. Abhishek Mishra, Hon'ble Minister of Vocational Education and Skilled Development, Govt of UP
2. Sh. Sreepakash Singh, Secretary, Urban Development, UP
3. Sh. S.D. Sharma, Resident Commissioner



Government of Bihar

1. Shri Rajiv Ranjan (Lalan) Singh, Hon'ble Minister of Water Resources, Govt. of Bihar
2. Sh. Vipin Kumar, Resident commissioner, Govt. of Bihar
3. Sh. Sanjay Dayal, Spl. Secretary, UD&HD, Govt. of Bihar
4. Sh. Shailendre Kumar, OSD cum CAD Bihar Bhawan Resident office New Delhi
5. Sh. Anoop, Civil Engineer, SPMG

Government of Jharkhand

1. Sh. Arun Kumar Singh, Principal Secretary, UD&HD, Jharkhand

Government of West Bengal

1. Sri Sutanu Prasad Kar, Project Director, SPMG

NMCG

1. Sh. Harihar Mishra, Director (Finance)
2. Sh. N.V Satish, Director (Technical-I)
3. Shri Sundeep, Director (Technical-II)
4. Shri Pravin kumar, Director (Technical -III)
5. Shri. Saumyasib Mukhopadhyay, (Sr. Env. Specialist)
6. Shri. Rajat Gupta, (Sr. SWM Specialist)
7. Ms. Priya Sikka,



Industrial Pollution Control on Ganga

1. CPCB has been assigned the task of monitoring of pollution in Ganga river and control of industrial pollution.
2. As per CPCB estimates of 2013, industrial effluent accounts for 7.5% (501MLD) of 6600 MLD waste water discharged into Ganga Main Stem States (Uttarakhand, Uttar Pradesh, Bihar, Jharkhand and West Bengal) and 30% of BOD load (131 tonnes per day out of 426 tpd). The remaining waste water and load comes from sewage and sullage generated by the cities and towns located on the bank / vicinity of the river. The waste water reaches Ganga through 144 drains meeting river Ganga directly and 13 drains through its tributaries river Kali-East and Ramganga.
3. As per survey carried out by CPCB and SPCB in 2011-12, there were 764 grossly polluting industries (GPI) in Ganga main stem states. The numbers are being updated currently.
4. Out of 764 GPIs, Sugar, Distillery, Pulp and paper, Tannery and Textiles sector contribute 90% of industrial pollution load. Therefore, CPCB prepared Action Plans focusing on these five critical sectors in February, 2015. The key results expected are a) Zero Liquid Discharge (ZLD) in Textile, Tannery and Distillery and b) conservation of water in Pulp and Paper and Sugar.
5. In order to implement the Action Plans, directions were issued under section 18 (1) (b) of the Water Act, 1974 to respective State Pollution Control Boards to further direct respective industries to submit time bound plans. The compliance with these plans is being assessed through a) self reporting by respective industries, b) review meetings and c) surprise checks.
6. The results achieved so far are:
 - a) Discharge of **black liquor** from the agro based pulp & paper industries and **spent wash** from Distilleries has been largely controlled

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However, constant vigilance is required. CPCB sends inspection teams whenever any cases of violation are reported

- b) Distilleries have stopped discharge of effluent in water bodies, thereby achieving Zero Liquid Discharge. One case of violation has been noted in two rounds of verification and action is being taken.
- c) Water conservation between 40-50% has been observed in Sugar and Paper & Pulp sector
- d) The implementation of ZLD in Textile and Tannery sector being dealt by Ministry of Water Resources, River Development and Ganga Rejuvenation (MoWR, RD & GR) through CETP.
- e) Out of 784 GPs, online continuous effluent monitoring systems have been installed by 556 units out of which 232 units have established data connectivity with CPCB server. Data from nearly all operating industries in three sectors: ie, Distillery, Sugar and Paper and Pulp are now available online for monitoring purpose.
- f) In order to involve people in the process of pollution monitoring, an application has been developed to enable people to report their observation or complaint which is being launched soon.
- g) In order to facilitate third party inspections, IITs and other reputed institutions have been requested to submit proposals for carrying out inspections and compliance verification

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