

**TE-12/2/2017-O/oED(Tech)NMCG**  
**National Mission for Clean Ganga**  
**Ministry of Water Resources, River Development &**  
**Ganga Rejuvenation**

1<sup>st</sup> Floor,  
Major Dhyan Chand National Stadium  
India Gate, New Delhi-110002  
Dated: 18<sup>th</sup> October, 2017

**OFFICE MEMORANDUM**

**Subject: Minutes of the 3<sup>rd</sup> meeting of Supervisory Committee held on 09.10.17 at 03.00 PM under the chairmanship of Dr. Amarjit Singh, Secretary, MoWR, RD&GR**

A copy of Minutes of the 3<sup>rd</sup> joint Meeting of Supervisory Committee with the Implementation Committee in the matter O.A. No. 200 of 2014 held at Conference Room, MoWR, RD&GR on 09.10.2017 at 03.00 PM under the chairmanship of Dr. Amarjit Singh, Secretary, Ministry of Water Resources, RD&GR is forwarded herewith for information/necessary action.

  
(D. P. Mathuria)

Executive Director-Technical, NMCG  
Member Secretary, Supervisory Committee

Encl: As above.

**Copy To:**

1. Additional Secretary, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi – 110032
2. Additional Secretary, Ministry of Urban Development, Nirman Bhawan, Maulana Azad Road, New Delhi – 110011.
3. Chief Secretary, 1st Floor, Room No. 110, Lal bahadur Shastri Bhawan, Uttar Pradesh Secretariat, Lucknow – 226 001
4. Chairman, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-110032
5. Dr. A. B. Akolkar, Flat No. H-503, Mayurdhwaj Society, plot No. 60, I P Extension, Patparganj, Delhi – 110092.
6. Prof A. K. Gosain, Department of Civil Engineering, Indian Institute of Technology Delhi, HauzKhas, New Delhi - 110 016
7. Prof. Vinod Tare, Department of Civil Engineering, Indian Institute of Technology Kanpur Kanpur – 208016
8. Principal Secretary, Department of Environment, U.P., Room No. 601, Babu Bhawan Secretariat, Vidhan Sabha Marg, Lucknow – 226001
9. Principal Secretary, Urban Development Department, 824, Babu Bhawan Lucknow, Uttar Pradesh – 226001
10. Member Secretary, Uttar Pradesh Pollution Control Board, Building No. TC – 12V, Vibhuti Khand, Gomti Nagar, Lucknow – 226 010
11. Managing Director, Uttar Pradesh Jal Nigam, 6, Rana Pratap Marg, Lucknow – 226001

Uttar Pradesh

12. Municipal Commissioner, Kanpur Nagar Nigam, Moti Jheel, Harsh Nagar, Kanpur,  
Uttar Pradesh - 208002
13. Prof. A. A. Kazimi, Department of Civil Engineering, Indian Institute of Technology Roorkee,  
Roorkee, Uttarakhand 247667
14. Chief Engineer, Irrigation Water Resources, Government of Uttar Pradesh, Cantt Road,  
Udaiganj, Lucknow, Uttar Pradesh – 226001
15. Shri Sundeep, Director (T-II), NMCG

Copy for kind information to:

1. PS to Secretary, Ministry of Water Resources, RD&GR Shram Shakti Bhavan, Rafi Marg,  
Sansad Marg Area, New Delhi, Delhi 110001
2. PS to Director General, NMCG
3. PS to ED (Project/Finance/Admin), NMCG

## **Minutes of Meeting of the Supervisory Committee held at Conference Room,**

### **MoWR, RD&GR**

The 3<sup>rd</sup> joint meeting of Supervisory Committee and Implementation Committee constituted in accordance to the NGT's judgement dated 13.07.2017 in the matter O.A. No. 200 of 2014 was held on 09.10.2017 at Conference Room, MoWR, RD&GR under the Chairmanship of Secretary, MoWR, RD& GR. The list of participants is at **Annexure-I**.

The agenda was discussed in detail and following decisions were taken.

1. In reference to the decision taken in 2<sup>nd</sup> joint meeting of Supervisory Committee and Implementation Committee held on 25.09.17, ED(Tech), NMCG informed that the details regarding 86 drains were shared with the IITs. Subsequent discussions were held by the Task Force constituted by IITK in which officials from NMCG, experts from IITs and UP Jal Nigam participated. UP Jal Nigam confirmed that the process of identification of feasible drains, locations for measurement of flows and other details as desired by IITs for installation of permanent flow measurement structure is in progress and shall be provided to them by 16.10.2017. Prof Vinod Tare, IITK confirmed that the installation of permanent flow measurement structure would be completed within a month thereafter and data shall be made available in a week's time henceforth.

**(Action: UP Jal Nigam/ IITs)**

2. NMCG informed that for few cities, reconciliation of flows in drains, as measured by UP Jal Nigam and the Joint Inspection Team separately, is required to be carried out by measuring the flows again. The case of Meerut was discussed in detail wherein it was informed that there are large differences in the flows observed by UPJN and Joint Inspection Team in Abu Nalla-II and Odeon drain. Further, there are 12 existing STPs of 168 MLD capacity and 727 Km sewer length. However, capacity utilization of these STPs is about 40% while about 15-20% of households have been provided with sewer connections resulting in sub-optimal utilization of created assets. The treated effluent from at least 7 STPs is being discharged into the drains again which then flows into the river. The proposal of 210 MLD STP now submitted by UP Jal Nigam requires to be examined not only in context of quantity of flows but also to

ensure that double treatment of treated effluents released into drains is not carried out at new proposed STP. It was decided that sewerage infrastructure projects for cities viz., Kasganj, Rampur, Moradabad, Meerut, Bareilly, Kannauj where such ambiguity persists due to either quantity of flow or quality may be examined by experts of this committee. The outcome will be put up to this committee in the next meeting for consideration.

**(Action: UP Jal Nigam/ IITs,  
CPCB – for quality analysis as and when required)**

3. ED (Technical) informed that the dredging details of 86 drains along with maps and photographs were shared with IITs for verification. Secretary, MoWR suggested expediting the process of verification as agreed by the experts from IITs during the last meeting. NMCG/ UPJN/ UDD may accordingly provide requisite information to the experts.

**(Action: IITs)**

4. CPCB informed that the proposal on '*Remediation of Chromium Contaminated area at Rania, Kanpur Dehat, UP*' was reviewed by Prof. Ligy Philip, IITM. For remediation of groundwater at contaminated site, CPCB had proposed pumping and treating the contaminated groundwater (approximate volume 5 MCM) by installing water treatment plant for removal of hexavalent chromium. While, Prof. Ligy Philip suggested in-situ remediation as the quantum of water to be treated is too huge by installing a row of injection wells just in the downstream of the source, which will develop as a reactive zone and remediate the aquifer. Prof. A. K. Gosain, IITD suggested that capping the area using clay can temporarily prevent leachate formation during monsoon.

Supervisory Committee observed that combination of the two methods should be adopted as the in-situ remediation method may not be feasible given the scale of operations. Secy(WR) desired that CPCB may submit the DPR by November'2017 end after incorporating the observations of Prof. Ligy Philip and utilizing her expertise while finalizing the DPR.

**(Action: CPCB)**

5. Member Secretary, UPPCB informed that a meeting of the Technical Evaluation Committee was held on 05.10.17 to review the proposal submitted by UPLIA. In the meeting, the proposal of NMCG was agreed upon by the members towards 20 MLD CETP (with 18 MLD industrial and 2 MLD inseparable domestic waste) based on dilution method thus eliminating ZLD component at Jajmau, Kanpur. The project, based on preliminary estimation having an estimated cost of Rs. 430 crore may be funded 100% centrally and O&M of the CETP to be borne by the industries.

Prof. A. A. Kazmi suggested that sulphide removal mechanism should be adopted in order to prevent the corrosion of the STPs/ CETPs. Shri A. K. Mehta, Addl Secy(MoEF) stated that individual tanners while obtaining consent to operate are aware of installation of Pre-treatment system, but illegally have increased their production capacity and discharges the waste into the drains. They are responsible for inlet standards from PETs.

DG NMCG highlighted that a meeting was held in NMCG regarding potential of adopting cleaner technology wherein agencies such as CLRI, UNIDO, Solidaridad informed their engagement in installation of online monitoring systems and adoption of cleaner technologies by individual tanners.

Secy(WR,RD&GR) suggested that the final proposal shall be submitted by TWIC to the State Government with a copy to Supervisory Committee after discussion with Prof A. A. Kazmi, IITR.

**(Action: UP State Government, DOE- UP, UDD-UP, UPPCB, UPSIDC, UPLIA, Jajmau tanners)**

6. It was informed that individual DPRs having separate SPV have been submitted for Unnao & Banther with estimated cost of Rs. 40 Crore and Rs. 95 Crore respectively. The Technical Evaluation Committee had asked UPLIA to submit a revised proposal based on dilution method. Supervisory Committee agreed to the suggestion of Technical Evaluation Committee that the water from the 4 slaughterhouses can be used for dilution at Unnao and directed that expertise of TWIC may be used for modification or upgradation of CETP at Unnao and Banther. The proposals should be

submitted to the State Government with a copy to Supervisory Committee at the earliest.

**(Action: CETP Unnao and Banther, DOE- UP, UPPCB, UPSIDC, UPLIA)**

7. Secretary, MoWR suggested that hence forth no new industry shall be given consent to operate in Jajmau, Unnao and Banther until they agree to pay for the CETP expenses on account of Capital and O&M cost.

**(Action: UPPCB)**

8. It was informed that the action plans for Ganga Phase – II have been received from the states of Haryana, UP, Rajasthan, MP, Bihar. Drain flow measurement is in process by the State Pollution Control Boards, therefore the requisite information for Inventorization is not obtained. ED (Technical) suggested a Joint Inspection team comprising of officials from CPCB, State PCB, NMCG, State, experts from IITs may carry the work of drain monitoring. Prof. A. A. Kazmi offered to provide already available monitoring data for the drains from Etawah to Allahabad for Yamuna.
9. It was decided that next meeting of the Supervisory Committee will be held on 03.11.2017.

The meeting ended with vote of thanks.

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**List of participants:**

1. Dr. Amarjit Singh, Secretary, MoWR, RD&GR–*in chair*-
2. Shri U. P. Singh, Director General, NMCG
3. Shri. A. K. Mehta, Additional Secretary, MoEF
4. Dr. A. B. Akolkar, Member Secretary, CPCB
5. Prof. A. K. Gosain, IIT Delhi
6. Prof. Vinod Tare, IIT Kanpur
7. Shri. D. P. Mathuria, Executive Director – Technical, NMCG
8. Dr. Rupesh Kumar, Special Secretary, Department of Environment, UP
9. Shri. S. P. Shahi, Special Secretary, Urban Development Department, UP
10. Shri. Ashish Tiwari, Member Secretary, UPPCB
11. Prof. A. A. Kazmi, IIT Roorkee
12. Shri Sundeep, Director Technical – II, NMCG
13. Dr. Manoranjan Hota, Adviser, MoEF
14. Shri. J. B. Ravinder,, Joint Adviser, Ministry of Urban Development
15. Shri. B. Vinod Babu, Additional Director, CPCB
16. Shri. A. K. Vidyarathi, Additional Director, CPCB
17. Shri A. K. Gupta, Chief Engineer , UP Jal Nigam
18. Shri. R. K. Pal Env't Engineer, Municipal Corporation, Kanpur
19. Shri. Sanjay Tewari, UPSIDC
20. Shri T. U. Khan, Environment Engineer, UPPCB
21. Shri Krishan Mohan Yadava, GM, UPJN, Ghaziabad
22. Shri Ramsharan, GM, UPJN, Kanpur
23. Shri. Kumar Ajitabh, Project Officer Legal, NMCG
24. Mrs. Ruby Raju, Project Engineer, NMCG

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