

**T-03/2016-17/534/NMCG/Phase II/Vol.III**  
**Ministry of Jal Shakti**  
**Department of Water Resources, River Development**  
**& Ganga Rejuvenation**  
**National Mission for Clean Ganga**

1<sup>st</sup> Floor,  
Major Dhyan Chand National Stadium  
India Gate, New Delhi-110002  
Dated: 13<sup>th</sup> November, 2024

**OFFICE MEMORANDUM**

**Subject: Minutes of the 14<sup>th</sup> meeting of the re-constituted Principal Committee in the NGT Matter OA No. 06 of 2012 held on 18.07.2024 from 10.30 AM onwards**

A copy of Minutes of the 14<sup>th</sup> Meeting of the re-constituted Principal Committee in the NGT matter O.A. No. 06 of 2012 held on 18.07.2024 from 10.30 AM on-wards, under the Chairmanship of Secretary, DoWR, RD&GR, Ministry of Jal Shakti is forwarded herewith for information/ necessary action.



(Anup Kumar Srivastava)  
Executive Director-Technical, NMCG  
[ed-technical@nmcg.nic.in](mailto:ed-technical@nmcg.nic.in)

Encl: As above.

To:

1. Shri Shashi Shekhar, Expert Member, C – II/155, Satya Marg, Chanakyapuri, New Delhi – 110021
2. Additional Secretary, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi – 110032
3. Joint Secretary, Ministry of Water Resources, RD&GR Shram Shakti Bhavan, Rafi Marg, Sansad Marg Area, New Delhi, Delhi 110001
4. Chief Secretary, GNCTD, Delhi Secretariat, IP Estate, Near Indira Gandhi Indoor Stadium, Delhi - 110002
5. Secretary, Irrigation Department, Govt. of Haryana, Haryana Civil Secretariat, Sector-1, Chandigarh, Haryana
6. Secretary, Irrigation Department, Govt. of Himachal Pradesh, H.P. Secretariat, Shimla-171002
7. Secretary, (UP) Irrigation Department, Babu Bhawan Sachivalya, Government of UP, Lucknow – 226 001
8. Secretary, Irrigation Department, Govt. of Uttarakhand, 4 Subhash Road, Secretariat, Forth Floor, New Building Dehradun, Pin code-248001

9. Secretary, Department of Environment, Govt. of NCT of Delhi, 6<sup>th</sup> Floor, Delhi Secretariat, IP Estate, New Delhi (Fax – 011 23392034)
10. Secretary, Department of Irrigation & Flood Control, Varunalaya Complex (Phase-II), Karol Bagh, New Delhi-110005
11. CEO, Delhi Jal Board, Delhi Jal Board, Varunalaya Complex (Phase-II), Karol Bagh, New Delhi
12. Dr. A. K. Gosain, Professor of Civil Engineering, Indian Institute of Technology Delhi Hauz Khas, New Delhi - 110 016
13. Dr. C. R. Babu, Centre for Environmental Management of Degraded Ecosystems, School of Environment Studies, University of Delhi-110007.
14. Dr. A. A. Kazmi, Civil Engineering Department, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand 247667
15. Vice Chairman, Delhi Development Authority, Vice-Chairman Office B- Block, 1st Floor Vikas Sadan, New Delhi-110023
16. Chief Engineer (Yamuna), Department of Irrigation, Uttar Pradesh
17. The Member Secretary, Haryana State Pollution Control Board, C-11, Sector 6, Panchkula, Haryana 134109
18. The Chief Administrator, Haryana Shehri Vikas Pradhikaran (HSVP/HUDA), Sector 6, Panchkula, Haryana
19. The Director, Urban Local Body, Bays No 11-14, Sector 4, Panchkula, Haryana
20. The Engineer-In-Chief, Public Health Engineering Department, Haryana, bays no 13-18, sector 4, Panchkula, Haryana
21. The Engineer-In-Chief, Irrigation & Water Resources Department, Haryana, Sichai Bhawan, Sector 5, Panchkula, Haryana
22. Principal Secretary, Department of Environment, U.P., Room No. 601, Bapu Bhawan Secretariat, Vidhan Sabha Marg, Lucknow – 226001.
23. Principal Secretary, Urban Development Department, 824, Bapu Bhawan, Lucknow, Uttar Pradesh – 226001
24. The Member Secretary, Uttar Pradesh Pollution Control Board, Building.No. TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow-226 010
25. Member Secretary, Delhi Pollution Control Committee, Government of N.C.T. Delhi, 4th Floor, ISBT Building, Kashmere Gate, Delhi-110006
26. Member Secretary, Upper Yamuna River Board
27. Chief Engineer, Zone – II, Irrigation & Flood Control Department, GNCTD, L.M.Bund Office Complex, Shashtri Nagar, Delhi – 110031

**Copy for kind information to:**

1. PPS to Secretary, Department of Water Resources, RD&GR, Ministry of Jal Shakti, Shram Shakti Bhavan, Rafi Marg, Sansad Marg Area, New Delhi, Delhi 110001
2. PS to Director General, NMCG
3. PS to ED (Projects), NMCG

**Minutes of the 14<sup>th</sup> meeting of the re-constituted Principal Committee held on 18.07.2024 in compliance to the directions of Hon'ble NGT in the matter OA No. 06 of 2012**

The 14<sup>th</sup> meeting of the re-constituted Principal Committee (Yamuna) constituted by Hon'ble NGT in the matter OA No. 06 of 2012 was held on 18.07.2024 in Conference Room, DoWR, RD & GR under the Chairmanship of Secretary, DoWR, RD & GR, Ministry of Jal Shakti. The list of participants present at the meeting is at *Annexure-I*.

The Chair welcomed all the participants and **underlined the importance of asset utilization in the States, and States have to take appropriate action for maintaining the existing Sewerage treatment infrastructure**. She also suggested for Committee meeting once every 6 months to review the progress made by concerned States.

***Item 1: Progress on Maily Se Nirmal Yamuna Revitalization Project (Status of Sewerage Infrastructure Projects, Industrial Pollution Management and Drain Trapping)***

1.1 CEO, Delhi Jal Board informed that the progress of projects is being regularly reviewed by High-Level Committee (HLC). An Integrated Drain Management Cell (IDMC) under the Chief Secretary, GNCTD, as per the directions of NGT, is also functional. A series of directions have been issued by High Court of Delhi with regard to drainage and efforts are being made to comply with the same. NCT of Delhi has given consultancy for the preparation of a detailed drainage action plan for Najafgarh, Barapullah and Trans Yamuna, which shall be completed by December 2024.

[Action: DJB]

1.2 Chief Engineer, Delhi Jal Board through a presentation (*Annexure-II*) briefed about the progress made in compliance to the last meeting.

- a) The work for the construction of Link Channel for discharging of treated effluent from Okhla WWTP to Yamuna river is held up for want of permission from UP Irrigation for the construction of shafts for micro-tunneling work near Abul Fazal Drain.
- b) proposal to release treated water into river Yamuna has been submitted to NMCG for its approval.

[Action: NMCG / State of UP]

1.3 Chief Engineer, Delhi Jal Board informed that the total water supply in Delhi is 990 MGD. The estimated sewage generation is 792 MGD, there are 38 STPs of

712 MGD (3233 MLD). All 38 STPs are complying with their design parameters. However, only 17 STP are complying with the standards of BOD -10mg/l, COD - 50mg/l & TSS - 10mg/l; (394.5 MGD) (1793 MLD). The utilization capacity of the STPs improved to 85% (610 MGD). Present gap in the installed capacity of STPs is 80 MGD (792 – 712) and present gap in treatment 182 MGD (792 – 610).

1.4 The Chair enquired about the amount of groundwater extraction in water consumption and sewage generation. She remarked that an assessment may be made with regard to the quantum of groundwater being extracted in the UT which shall ultimately lead to increase in sewage generation.

**[Action: DJB]**

1.5 CE, DJB informed that the sewage treatment capacity is expected to increase to 814 MGD by September 2024 and 964.5 MGD by December 2025. STPs at Kondli (Phase-I,II,III) and Rithala (Phase-I) are under commissioning. Trial run in progress for 564 MLD STP at Okhla and shall be completed by September 2024 and 19 more STPs are being upgraded to achieve the discharge norms of NGT. With regard to the 40 DSTPs, it was informed that land has been allotted for 38 and land is yet to be allotted by Revenue department for 2.

1.6 a) Out of the 22 drains falling into river Yamuna, 9 drains are tapped, 2 drains are partially tapped, 9 drains flow yet to be tapped and 2 large drains (technically not feasible to tap the whole drains) are included in Interceptor Sewer Project (ISP) where substantial flow of sub-drains will be tapped. Action proposed to tap the 9 untapped drains was briefed.

**[Action: DJB]**

1.6 b) Director-T, NMCG pointed out pending issues of tapping of major drains and the continuous shifting of committed timelines for completion of the sewerage projects. The timeline of achieving 964.5 MGD STP capacity in Delhi by December 2025, which was earlier December 2023 needs many actions at DJB level to achieve the timeline of 2025 as well.

**[Action: DJB]**

1.7 The Chair highlighted that initially when ISP was envisaged, it was targeted to capture all the sub-drains out falling into Najafgarh, Supplementary and Shahdara drain with the understanding that requisite sewage treatment capacity exists in Delhi. Now on the completion of ISP project, it is stated that the sewage treatment capacity is unable to treat the tapped flows from the drains. This reflects inadequate planning and detailed gap analysis and remedial action is needed.

**[Action: DJB]**

1.8 CE, DJB informed that 160 MGD of sewage is coming from Haryana through Mungeshpur drain/ Badshapur drain/ DD-6 drain. On this, official from Haryana informed that only 73 MLD of untreated sewage is being discharged into the Badshapur drain through various points and to cater this gap, STPs are under construction in Gurgaon area.

[Action: Haryana]

1.9 Prof. C. R. Babu remarked that the volume of sewage generated in Delhi is much higher than the claimed 792 MGD. Several drains are carrying untreated discharge into the river directly/ indirectly. The Interceptor Sewer Project seems to be going in the wrong direction. The drain tapping needs to be strengthened.

1.10 The Chair directed the following:

- i. A separate meeting may be convened with Delhi, UP and Haryana about quantifying the flow in the drains.

[Action – NMCG]

- ii. Delhi to monitor the flow and the quality of effluent sewage in the drains

[Action – DJB/ I&FCD, GNCTD]

- iii. Third-party assessment/ technical review of the Interceptor Sewer Projects being carried by DJB needs to be done for the works committed, done and proposed.

[Action – DJB]

- iv. A comprehensive catchment wise plan needs to be worked upon and Executive Engineers need to be made responsible.

[Action - GNCTD]

- v. CPCB to monitor the 4 drains (2 in Haryana – DD6 and 2 in UP).

[Action - CPCB]

## **Item 2: Review of Haryana reach of Yamuna, STP/ CETP projects (implementation of Action Plan), status of drains and river water quality**

2.1 Officials from Haryana made a presentation about river rejuvenation works and informed that 10 organizations in the State are responsible for executing the Action Plan for Rejuvenation of River Yamuna (*Annexure -III*). In the catchment of River Yamuna, the estimated sewage generation is 1,239 MLD, while 80 STPs of 1,461.7 MLD exist. Further 4 STPs of 38 MLD are under construction and 4 STPs of 340 MLD are proposed. 17 existing STPs of 265 MLD in the Yamuna catchment are under upgradation. Though there seems no gap in estimated sewage generation and STP capacity at the state level, however there is a gap of sewage treatment capacity in Faridabad and Gurgaon, which is being addressed by creating new STPs. It was informed that all the STPs are monitored through

OCEMS. State has identified 277 villages in River Yamuna catchment, where treatment systems have already been installed in 200 villages, work in progress in 51 villages and work yet to start in 26.

2.2 Director-T, NMCG pointed out poor water quality in the drains even though there is adequate sewage treatment capacity in the State still prevails. The high pollution load in the drains indicates the possibility of discharge of untreated sewage or by passing of STP systems. Further, as per states own report, most of the STPs are non-complying with the Fecal Coliform discharge norms.

2.3 The Chair observed that the comparison of water quality data from 2017-2024 as represented by the State do not show much improvement despite State's interventions over the years. A DO letter needs to be issued to Chief Secretary, Haryana highlighting that the progress is being reviewed again and again, however, there seems to be no proper plan to address the issue by the State.

[Action: NMCG/ State of Haryana]

### **Item 3: Review of UP reach of Yamuna in particular projects which aim to remediate pollution from Shahdara drain, Noida drain, Hindon river out falling into Yamuna**

#### 3.1

- a) RO (Noida), UP PCB informed that Shahdara drain outfalls into River Yamuna at Noida region, however, no water from Noida discharges into this drain.
- b) Sahibabad Drain is entirely tapped and the flow is treated at 2 STPs.
- c) For the Indirapuri drain, STP was proposed, however, due to high BOD and COD, the proposal was not taken up and the possibility of installing CETP is being explored to address the issue involving high COD.
- d) Regular monitoring is being taken up by UP PCB and appropriate action is initiated against the defaulting units including prosecution of the ULBs.
- e) The measured average discharge for Noida Drain (Kondli Drain) is 345 MLD. Noida drain still receives 99.9 MLD of wastewater from Delhi and Khoda Nagar Palika, Ghaziabad. STPs are proposed for intercepting Noida drain and for Khoda region. Further, 3 constructed wetlands have also been constructed for the treatment purpose.

[Action: UP PCB/ UP SMCG/ NOIDA]

3.2 Prof C R Babu informed that mentioned wetlands are out of operation due to poor maintenance and authorities' ignorance approach. The expenditure made in wetlands don't seems serving the purpose as there were blunders in the system since beginning, such as raw sewage being directly discharged into these

wetlands and no plantation in the constructed wetlands, resulting into non-operational wetlands.

3.3 Director-T, NMCG highlighted that though as per report presented here by the State, all STPs in Ghaziabad are complying with MoEF discharge standards; however as per the reports of CPCB, these STPs are non-complying having treated effluent BOD of about 70 mg/l. Operational issue still prevails in these STPs despite being managed by One City One Operator model.

[Action: UP SMCG]

3.4 For rejuvenation of River Hindon, about Rs. 2000 crore have been sanctioned by NMCG for construction of STPs at upstream cities, but, 13 drains in Ghaziabad having high BOD are yet to be addressed by the Authorities. If this issue not addressed properly, the objective of Hindon rejuvenation may not generate the desired results despite huge allocation of fund to UP state by NMCG.

[Action: UP SMCG]

3.5 Similarly, in the catchment area of Noida drain, non-conforming industries are contributing to high BOD levels, though appropriate action is being taken up by UPPCB.

3.6 The Chair directed the following:

- i. A Full audit of the constructed wetlands be done within the next month. NMCG with the help of Prof.C.R.Babu may carry out the same;

[Action: NMCG]

- ii. The State of UP must take action to ensure that the STPs already being set up are compliant with the norms. OCEMs and alert systems may be set in place if not already done. Inspections by CPCB and NMCG to these STPs may be carried out;

[Action: State of UP/ CPCB/ NMCG]

- iii. State of UP to come up with a comprehensive plan for tapping of drains in Ghaziabad & Noida.

[Action: State Govt]

#### **Item 4: DDA's Restoration & Rejuvenation of River Yamuna floodplains project**

4.1 Director, DDA through a presentation (*Annexure – IV*) briefed about the status of projects and the action taken against illegal dumping in Yamuna floodplain. It was informed that the strategies learnt from the guidance of Expert members are being implemented for restoration of the River Yamuna floodplain. This includes (1) Protection of floodplain – Demarcation & Repossession; (2)



Ecological restoration of the floodplains – Restoration of floodplains, forests and grasslands & Restoration of the wetlands; (3) River People Connect – Greenways. About 1350 million litres of water is collected in the 26 wetlands created across, 0.7 million native trees of floodplain ecology and 10 million riverine grasses have been planted in the project. The progress with regard to 10 packages of the Restoration plan was made through the presentation. It was informed that during the floods of 2023, the purpose of retaining the flood waters was achieved by these bio-diversity parks.

4.2 DDA highlighted that the Kalindi Biodiversity Park has been damaged by ongoing road works being carried out by NHAI. Similarly, the NCRTC corridor has damaged the works in Kalindi Aviral Package. Due to these issues, the restoration works being carried out by DDA have been put on hold in these packages. DDA informed that the Old Ghats in Vasudev Ghat (previously known as Qudesia Ghat) have been restored by DDA. Sur Ghat, which was developed by DDA in 2000, de-concretization of the Ghat shall be carried out as per the recommendation of the Expert Members of the Principal Committee. Further, challans of Rs. 8 crores have been imposed by DDA against dumping of malba in the floodplains and Rs.1 crore have been recovered till date.

4.3 Prof C R Babu informed that the Monitoring Committee (two members constituted by NGT, functional during 2019-2021) was very happy to visit these restoration project sites and made recommendations, which have been incorporated by DDA. It was highlighted that because of DDA's hard work, the 22km stretch of Yamuna floodplain in Delhi is now somewhat protected.

4.4 The Chair remarked that DDA has the power to take necessary actions against the violators. Further, NMCG can also be approached for taking necessary actions against those violating the directions of the Hon Court. If there is continuous violation by the agencies, punitive action may be initiated against them as the Yamuna floodplains are more important.

**[Action: DDA]**

4.5 The Chair appreciated the works being carried out by DDA. It was suggested that National Institute of Urban Affairs (NIUA) along with NMCG has piloted Urban River Basin Management Plan (URMP) in some cities. DDA can work on similar lines and prepare an URMP for Delhi which integrates with the Master Plan of Delhi. The team with members from NMCG and Expert Committee may visit the affected sites, on the request of DDA.

**[Action: DDA]**



**Item 5: Irrigation & Flood Control Department, GNCTD's proposal for carrying out the work re-modelling of Kirari Suleman Nagar (KSN) Drain**

5.1 I&FCD, GNCTD made a presentation on the proposal for re-modelling of KSN drain (*Annexure – V*). This Drain originates from Rohini Sector 21-22 and after traversing a total length of 7.85 km through Kirari, Mundka & Nangloi Assembly Constituencies outfalls into Supplementary drain at Nilothi. It was told that due to change in land pattern of its catchment area because of rapid urbanization and mushrooming of unauthorized colonies with no proper sewerage system thereby, this drain having inadequate carrying capacity receives storm water plus sewage and other domestic waste water, spills resulting in water logging in the locality in proximity of this drain. The drain invariably gets flooded despite its regular desilting being undertaken by I&FCD.

5.2 On enquiring of Prof C R Babu, it was informed by I&FC officials that the drain at the outfall shall be treated by DJB at its Nilothi STP. Further, ED (Tech), NMCG pointed out that Hon'ble NGT vide judgment dated 13.01.2015 in the matter OA no. 06 of 2012 has remarked in Para 61 that '*the natural drains cannot be permitted to be concretized or covered, as it would not only destroy the flora and fauna but would even destroy the ecology of the entire area*' and passed directions (at 94-xxii) that "*There shall be no construction and/or coverage of any of the drains in Delhi by any Authority or Municipal Corporation.....*'

5.3 After detailed deliberations, the Committee recommended that I&FC can carry remodeling of the drain, however, suggested for kaccha works such as stone pitching in place of the concretization of the proposed 600 metre stretch of the KSN Drain and in conformity with the direction of Hon'ble Courts / NGT. I&FC was urged to explore possibilities for groundwater recharging in the area.

[Action: I&FC, GNCTD]

**Item 6: Delhi Jal Board's proposal for permission for electric connection to ranney wells and tubewells of DJB which falls under 'O' zone in Yamuna Flood plain.**

6.1 CEO, Delhi Jal Board informed that DJB has installed 19 Tube-wells in the high water table of Yamuna flood plain area (Akshardham & Noida Mod areas) and reviving of 4 old Ranney wells which were closed due to high ammonia contents, for augmentation of water supply. DJB has already installed three ammonia removal plants and work on fourth ammonia plant is going on so that the water received from these Ranney wells having high content of ammonia to be treated at Ammonia removal plant and after the ammonia treatment, potable water may be supplied to the residents. M/s BSES Yamuna Power Limited was

requested for reviving of Electrical Connections at the existing 4 Ranney Wells (P3, V7, V13 and V14) and 19 new connections for tube-wells. However, M/s BSES Yamuna Power Limited desired to arrange NOC from Principal Committee.

6.2 Prof C R Babu remarked that the groundwater of the area may be polluted as the stretch of river Yamuna has high pollution load and therefore the abstracted groundwater should be tested and analyzed before supplying it for drinking water purposes. Considering past experience of NHA I and NCRTC, it was directed that the cable laying should not interfere with the natural wetlands in the floodplain zone and it should be realigned accordingly.

[Action: DJB]

6.3 Principal Committee recommended that the proposal may be carried out subjected to clearance from DDA and should adhere to the suggestions made by Prof. C. R. Babu. If the contractors violate the conditions, a hefty fine may be imposed in addition to recovery of restoration charges.

[Action: DJB]

The meeting ended with vote of thanks to the Chair.

\*\*\*\*\*

#### Annexure-I

#### List of participants:

#### DoWR, RD & GR, NMCG, UYRB, CPCB

1. Ms. Debashree Mukherjee, Secretary, DoWR, RD&GR, Ministry of Jal Shakti – *in Chair*
2. Shri Rajeev Kumar Mital, Director General, NMCG cum Project Director, NRCD
3. Shri Anup Kumar Srivastava, Executive Director (Technical), NMCG
4. Shri Ravi Bhusan, Member Secretary, UYRB
5. Dr. Pravin Kumar, Director Technical, NMCG
6. Shri Nazimudin, Scientist F, CPCB (representing MoEF & CC)
7. Shri N K Madan, SME, NMCG
8. Mrs. Ruby Raju, Project Engineer, NMCG

#### Expert Members

9. Prof. C.R.Babu, Delhi University, Expert Member
10. Prof. A. A.Kazmi, IIT Roorkee, Expert Member (*through Video Conferencing*)

## **DDA**

11. Shri. Subhasish Panda, Vice-Chairman, DDA.
12. Shri Vipul Aggarwal, Principal Commissioner (DDA)
13. Ms. Neelima Soni, Director (Landscape), DDA
14. Shri Mohammad Uzair, Assistant Director, DDA

## **NCT of Delhi**

15. Shri. A. Anbarasu, Chief Executive Officer, Delhi Jal Board
16. Dr. K.S Jayachandran, Member Secretary, Delhi Pollution Control Committee cum Special Secretary (Environment), Delhi
17. Ms. Sonalika Jiwani, Special Secretary (Urban), GNCTD
18. Shri. KC Meena, Chief Engineer (Water Works), DJB
19. Shri. Ajay Gupta, Chief Engineer Nodal (Drainage), DJB
20. Shri. Bhupesh Kumar, Chief Engineer (SDW), DJB
21. Shri Anil Kumar, CE, I&FCD, Delhi
22. Shri Mukesh Kumar, CE, I&FCD, Delhi
23. Shri D.K. Singh, Additional Director (DPCC)
24. Shri Raveendra Kumar, SE (I&FCD), Delhi
25. Shri Pradeep M Naik, EE (I&FCD), Delhi
26. Shri. Anirudh Dubey, Executive Engineer (E&M) TYRSV - Sonia Vihar, DJB
27. Shri Anurag Jain, EE, I&FCD, Delhi
28. Shri Akhil Pratap, AE, I&FCD, Delhi

## **Govt of Haryana**

29. Dr. Yash Pal, IAS, Director, Urban Local Bodies Department, Haryana
30. Shri Shailender Singer, CE (PHED), Haryana
31. Shri Kamaljit Singh, EE HSPCB
32. Shri Arpit Budhwar, AE, MC, Panipat

## **Govt of Uttar Pradesh**

33. Dr Raj Shekhar, PD SMCG UP cum MD, UP Jal Nigam (Rural)
34. Shri Satish Pal, Addl CEO, NOIDA
35. Shri D S Phaugat, SE, UP Irrigation Department (Agra)
36. Shri Pankaj Saini, EE, Municipal Corporation
37. Shri Rajkumar Vern, EE (Ghaziabad), UP Irrigation
38. Shri Utsav Sharma, RO (Noida), UPPCB

## **Govt of Himachal Pradesh**

39. Dr Mandeep Gupta, EE, Jal Shakti, HP

**Others**

40. Shri Shambu Azad, CE Director, WAPCOS

41. Shri Animesh Kumar, CE, WAPCOS

42. Shri R K Tyagi, Consultant, WAPCOS