

TE-12/2/2017-O/oED(Tech)NMCG
National Mission for Clean Ganga
Ministry of Jal Shakti, GoI

1st Floor,
Major Dhyan Chand National Stadium
India Gate, New Delhi-110002
Dated: 1st November, 2019

OFFICE MEMORANDUM

Subject: Minutes of the 9th meeting of Supervisory Committee held on 11.10.2019 at 03.00 PM under the Chairmanship of Secretary, DoWR, RD&GR, Ministry of Jal Shakti

A copy of Minutes of the 9th joint Meeting of Supervisory Committee with the Implementation Committee in the matter O.A. No. 200 of 2014 held at Conference Room, Ministry of Jal Shakti on 11.10.2019 at 03.00 PM under the Chairmanship of Secretary, Department of Water Resources, RD&GR, Ministry of Jal Shakti is forwarded herewith for information/ necessary action.


(D. P. Mathuria)

Executive Director-Technical, NMCG
Member Secretary, Supervisory Committee

Encl: As above.

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 Apartment, IP Extension, Patparganj Delhi-110092
6. Prof A. K. Gosain, Department of Civil Engineering, Indian Institute of Technology Delhi, Hauz Khas, 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. Kazmi, 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, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi – 110032
16. Managing Director, UP State Industrial Development Corporation, A-1/4 Lakhanpur Kanpur-208 024
17. Chairman, Central Water Commission, Sewa Bhawan (S), R.K. Puram, New Delhi- 110066
18. Chairman, Central Ground Water Authority, West Block-2, Wing-3, Sector-1, R. K. Puram, New Delhi – 110066.
19. Principal Secretary, Krishi Bhawan, Madan Mohan Malviya Marg Lucknow – 226001
20. Chief Executive Officer, Tagore Road, Kanpur Cantonment, Uttar Pradesh (India), PIN – 208004
21. Office of the Principal Chief, Conservator of Forests (PCCF), 17, Rana Pratap Marg, Lucknow, (U.P.), 226001
22. District Magistrate, Kanpur Nagar, Collectorate , Civil Lines, Kanpur Nagar -208001, Uttar Pradesh

Copy for kind information:

1. PS to Secretary, Department of Water Resources, RD&GR, Ministry of Jal Shakti, Shram Shakti Bhavan, Rafi Marg, Sansad Marg Area, New Delhi- 110001
2. PS to Chairman, Monitoring Committee of NGT (Ganga)
3. PS to Director General, NMCG
4. Member, Monitoring Committee of NGT (Ganga)
5. PS to ED (Project/ Finance/Admin), NMCG
6. Director-Technical NMCG

**Minutes of 9th Meeting of the Supervisory Committee held at Conference Room,
DoWR, RD&GR, Ministry of Jal Shakti**

The 9th joint meeting of Supervisory Committee and Implementation Committee was held on 11.10.2019 at Conference Room, Ministry of Jal Shakti under the Chairmanship of Secretary, DoWR, RD & GR, Ministry of Jal Shakti. The list of participants is at **Annexure-I**.

Following discussion were held in the meeting:

Agenda 1: Report on Floodplain Demarcation of Segment B Phase I of R.Ganga

Director CWC through a presentation (at Annexure-II) briefed the Committee about the findings from the report prepared by the Special Committee under the Chairmanship of Member (WP&P), Central Water Commission, constituted in compliance to Hon'ble NGT's judgement dated 13.07.17. Scope of the Special Committee were as follows:

- i. Identify and demarcate the flood plains of river Ganga in segment B of Phase- I on one in twenty five year's cycle or appropriately
- ii. Identify no development /construction zone, regulatory zone and the activities that can be /cannot be carried on in the regulatory zone of the floodplain.

It was informed that initially an interim report was prepared using initial 2D simulations on raw SRTM 90m DEM along with satellite results. Thereafter based on the recommendations of U.P. Government that simulated flood plain width was on higher side, refined studies of Satellite, Model & Hybrid approach and ground truth verification was undertaken. Teams consisting of officials from CWC, GFCC, UP Govt and NIH undertook the ground truth verification in 3 phases: Phase-1: from Haridwar to Bijnore, Phase-2 : from Kannauj to Unnao and Phase-3 : from Garhmukteshwar to Narora.

Further, it was informed that the report has been prepared and finalized considering the CWC Flood plain Zoning Bill -1975, Concept paper on River Conservation Zone prepared by the expert group of MoEF&CC 2012, NDMA guidelines for Flood management, Flood Plain Zoning notification of Uttarakhand Irrigation Department, MoWR,RD&GRs's Notification dated October 2016 titled "The River Ganga (Rejuvenation, Protection and Management) Authorities Order, 2016" and CPCB Guidelines.

For No Development Zone, satellite results were more accurate than hybrid approach. The final recommendations of the Special Committee with regard to no-development zone and restricted zone are as follows:

- i. Embankments to be considered outer extent of no development zone, where ever applicable.
- ii. Gaps (dry area) within no development zone to be included in no development zone.
- iii. Restricted zone results could not be ascertained and verified on ground due to its wide spread nature and non-availability of water markers.
- iv. Both zones to be suitably demarcated on ground using pillars at 200m interval. Latitudes/ Longitudes of demarcating pillars on both banks have been worked out.

No-Development Zone	Final Recommendations
Area (Sq Km)	2032
Avg Width (Km)	3.15
Max Width (Km)	7.73
Min Width (Km)	0.46
Recurrence Period	>5 Year (near to 10 Yr)

Regulatory Zone	Final Recommendations
Area (Sq Km)	6530
Avg Width (Km)	10.12
Max Width (Km)	31.56
Min Width (Km)	1.2
Recurrence Period	> 25 Year (near to 50 Yr)

Following recommendations have been made by the Special Committee with regard to activities permitted and prohibited in no development zone and restricted zone:

Zone A: No development Zone

Prohibited activities: All activities except those defined in Regulated Activities.

Regulated Activities:

1. Temporary constructions, if absolutely necessary in emergency situations
2. Regulated Sand/ Stone mining may be allowed as per MoEF&CC guidelines
3. Repair of only temples, boating jetties, parks
4. Repair of breaches in embankments
5. Existing structures (to be reviewed as per MoWR,RD&GR's notification dated 7th October 2016)

6. Construction of hydraulic structures, bridges
7. Organic farming by traditional owners/lease holders
8. Large scale plantation of native trees / shrubs for commercial use
9. Extraction of ground water
10. Measures for control of erosion, maintenance or de-silting of waterways and channels
11. Laying of unpaved paths for access to the river for cultural/ religious purposes

Zone B: Regulated Zone

Prohibited Activities: Red category of industries as defined by CPCB from time to time.

Regulated Activities:

1. Construction of residential/ institutional/ commercial buildings, school, dispensaries, recreational facilities.
2. Setting up of non-polluting cottage industries.
3. Withdrawal/ diversion of water from the river for any purpose (except domestic supplies)
4. Construction / expansion/ modernization of bridges, roads and similar facilities that may affect ND Zone
5. Creation of navigational facilities involving dredging , mechanised ferries, jetties etc
6. Green and orange category of industries as defined by CPCB from time to time with pollution control & adequate waste management facilities.
7. Water sports, water transport related activities
8. Stone crushing plants etc

Executive Director Technical NMCG informed that there exists large number of human settlements viz., towns/cities and villages within no-development zone and regulated zone alike where sustenance and commercial activities are undertaken and these are very much part of revenue records of State Government. The Committee may consider preparing an inventory of such settlement as part of report.

Director General NMCG remarked that floodplain protection and regulation would be a very important single step that will regulate activities in Ganga floodplain and thus fulfill the cause of Ganga rejuvenation.

Supervisory Committee appreciated the works done and the recommendations made by the Special Committee, it was suggested that the final report may be submitted to Hon'ble NGT. Subsequently, it was decided that a copy of report may be forwarded to Uttar Pradesh Government, which may consider issuing appropriate notification in this regard.

Agenda 2: Discussion on Hon'ble NGT's order dated 22.08.2019 (based on the NGT hearing dated 07.08.2019) in the matter OA No. 200/2014, with regard to Segment B.

Supervisory Committee was briefed about the Hon'ble NGT's order dated 22.08.2019, wherein certain point-wise and time bound directions have been issued for compliance by respective stakeholders. As per the NGT order, following has been directed with regard to the STP and sewer network works:

- Wherever the work has not commenced, it is necessary that no untreated sewage is discharged into the River Ganga. Bioremediation and/or phytoremediation or any other remediation measures may start as an interim measure positively from 01.11.2019, failing which the State may be liable to pay compensation of Rs. 5 Lakhs per month per drain to be deposited with the CPCB.
- For delay of the work, the Chief Secretary must identify the officers responsible and assign specific responsibilities.
- For delay in setting up of STPs and sewerage network beyond prescribed timelines, State may be liable to pay Rs. 10 Lakhs per month per STP and its network. It will be open to the State to recover the said amount from the erring officers/contractors.
- With regard to works under construction, after 01.07.2020, direction for payment of environmental compensation of Rs. 10 lakhs per month to CPCB for discharging untreated sewage in any drain connected to river Ganga or its tributaries and Rs. 10 lakhs per month to CPCB per incomplete STP and its sewerage network will apply.
- Further with regard to the sectors where STP and sewerage network works have not yet started, the State has to pay an Environmental Compensation of Rs. 10 lakhs per month after 31.12.2020

Sewerage Projects in UP

Managing Director UP Jal Nigam through a presentation (at Annexure –III) briefed the Committee the status of tapping of 86 drains in Segment B Phase I of R.Ganga (Haridwar-Unnao). It was informed that of 86 drains, 11 drains do not require tapping, 23 drains have already been tapped, work is in progress for tapping of 37 drains, 10 drains are proposed to be tapped in sanctioned projects, for tapping of 1 drain proposal has been submitted and proposal for tapping of 4 drains is under-preparation.

Chairman-Supervisory Committee highlighted as per the completion timeline provided by UP Jal Nigam, most of the projects are expected to be completed by 2020-2021. Further, it was

suggested that the on-going projects must be reviewed regularly, in order to complete the works as per the timeline provided.

Shri Sundeep, Member Implementation Committee, informed that few drains such as Permiya Nala, have natural flow or storm water, therefore, it may not require tapping, only the small drains meeting the drain carrying untreated discharge may be tapped separately.

Executive Director – Technical, NMCG informed that during Monitoring Committee's visit to Kanpur on 18-19th September 2019, it was informed by UP Jal Nigam officials that the works of desilting and lining of 2106m of brick barrel trunk sewer line in district-I are going on since 27th July 2019, therefore untreated flows from drains are being bypassed into River Ganga. Further, it was informed that Monitoring Committee has taken serious note on the issue, as it was not informed to the Committee previously, in its meeting held on 08.08.19 and 02.09.19.

MD UP Jal Nigam informed that 938m of lining works have been completed while lining in balance length of 1168 m will be completed by 31st October 2019. Further, it was informed that in compliance to NGT's order, proposals for interim measure are being prepared to prevent direct discharge of untreated wastewater into river.

Prof.A.A.Kazmi informed that de-silting works are preferred to be carried out in monsoon season considering there is sufficient water in the river for dilution and minimum impact of the untreated sewage on the river quality. It was suggested that such activities should be completed before the lean season preferably by September end.

Director General NMCG informed that NMCG has supported a number of sewage infrastructure projects with long term O&M in 5 Ganga States, therefore short-term interim measure such as bio-remediation are best planned at local level considering the ground conditions and respective State may take up the projects as per need at their level. Hence, in a meeting held on 12th September 2019 at NMCG, it was agreed upon by the respective States to take up bioremediation of projects from State funds as is technically appropriate, and would also be speeding to execute.

Chairman-Supervisory Committee directed that during Monitoring Committee meetings and site visits, officials well versed with the project details may be deputed by UP Jal Nigam and UP SMCG. Further, it was suggested that readable presentation should be made and the progress made with respect to the last meeting should be clearly depicted.

Further, MD UP Jal Nigam through another presentation (at Annexure –IV) briefed the Committee about the status of sewerage infrastructure in Uttar Pradesh. Status of on-going and proposed project in segment B (Haridwar – Unnao) as follows:

No.	Project	Completion Timeline
1	Sewerage works in District-I Kanpur	August 2020
2	I&D of drains and 2.4 MLD STP at Bithoor	December 2019
3	Rehabilitation of existing STPs at Kanpur and 30 MLD STP at Pankha	24 months after commencement of work.
4	I&D of drains and sewerage works at Shuklaganj	
5	I&D of drains and sewerage works at Unnao	
6	I&D of drains and sewerage works at Farrukhabad-Fathegarh	Under-Tendering. 24 months after commencement of work.
7	I&D of drains and sewerage works at Kasganj	July 2021
8	Sewerage system & STP at Moradabad (Phase-I)	December 2019
9	I&D of drains and sewerage works at at Moradabad (Phase-II)	Under-Tendering. 24 months after commencement of work.
10	I&D of drains and STPs at Bareilly	Under-Tendering. 24 months after commencement of work.
11	I&D of drains and STPs at Meerut (Kali)	Under-Tendering. 24 months after commencement of work.

Further, it was informed that 58 MLD STP constructed and commissioned in Moradabad Phase-I, at present receives about 15 MLD of wastewater for treatment. Moradabad Phase-II and Bareilly projects which were earlier clubbed together in HAM project have been spilt. Land allotment issues with Bareilly project are yet to be resolved. It was informed that the land issue for laying of sewer main in Meerut has been resolved however the existing STP is not receiving additional sewage through this line, as the existing sewer lines require de-silting to convey sewer to the STP. Works of house service connections and cleaning of choked sewer network in progress in Rampur. The project for construction of STP in Hapur has been re-tendered. The 24 MLD STP at Bijnore is functional and receiving only 4-5 MLD sewage for treatment.

Director General NMCG informed that review of all projects in Uttar Pradesh would be taken up within one week and advised UP Jal Nigam to prepare accordingly.

Chief Engineer UP SMCG informed that the proposal for installation of SCADA for online monitoring of all the STPs in UP is being reviewed.

Supervisory Committee directed UP Jal Nigam to review the progress of all the STP works regularly, and to resolve the pending issues under Namami Gange as well as AMRUT scheme without any delay.

CETP at Jajmau

Executive Director Technical NMCG informed that a letter has been received from CPCB dated 06.09.19, wherein CPCB conveyed its recommendations that the new proposed 20 MLD CETP at Jajmau should also be designed for requisite treatment of effluent to achieve the notified effluent discharge standards at the outlet of CETP without any dilution. The recommendations which are contrary to judgment of Hon'ble NGT in matter of O.A. No 200/2014 dated 13th July 2017 and project sanctioned thereafter under Namami Gange programme based on DPR prepared by TWIC through consultative process.

It was informed that the new 20 MLD CETP at Jajmau was designed based on the dilution technology, as per the directions contained in para 182.6.5 of Hon'ble NGT Judgment dated 13th July 2017 in the matter of OA No. 200/2014 M.C. Mehta Vs Union of India, wherein it has been mentioned that *'the treated effluents being discharged from the CETP should be subjected to dilution by the treated sewage received from the STPs in Jajmau itself'*. The judgment duly acknowledges in detail the problems associated with other techniques viz., ZLD wherein enormous quantity of salt is produced which has to be stored without any proven method for its reuse. The order was issued by Hon'ble NGT after hearing all the stakeholder concerned including CPCB and due deliberations with technical experts. In compliance to the order, three Committees were constituted viz., Supervisory Committee under Secretary (D/o Water Resource, River Development & Ganga Rejuvenation), Implementation Committee under Principal Secretary (Environment), GoUP and Monitoring Committee under Principal Secretary (Urban Development), GoUP. Further the Implementation Committee constituted Technical Committee under Principal Secretary (Env), GoUP to discuss the feasibility and finalization of dilution based CETP. All these Committees were represented through participation of member from CPCB/ UPPCB. The technology of 20 MLD CETP at Jajmau was discussed during various meetings of the Committees and accordingly, the DPR was prepared by TWIC. The 4th meeting of Supervisory Committee which finalized the dilution based planning of the project was attended by Chairman and Member Secretary, CPCB. The DPR of 20 MLD CETP based on dilution principle was circulated to all stakeholders including CPCB for observations and

CPCB choose not to observe at any of such forum/ stage. Also, the DPR for the new 20 MLD CETP was prepared in consultation with CPCB. Thereafter, the proposal was approved by 9th & 13th Executive Committee of NMCG. The 20 MLD CETP project at Jajmau is presently under implementation. Environment Clearance approval for new 20 MLD CETP is under process and such recommendations from CPCB may delay in obtaining Environmental Clearances and other clearances of the project, which may further delay the project and the timelines specified by Hon'ble NGT.

After due deliberations, Supervisory Committee highlighted that as per the NGT judgement, ZLD cannot be adopted across board therefore recommended NMCG to reply to the CPCB letter along with proper justifications.

Chromium dumps at Rania

Executive Director Technical NMCG informed that UP State Government has entrusted UPSIDC for implementing the interim measure for remediation of the chrome dump site at Rania. It was also informed that Hon'ble NGT vide its order dated 27th September 2019 in the matter OA No. 985/2019, has directed that drinking water may be supplied to the residents in the affected by the chromium dumps sites at Rania, Kanpur Dehat and Rakhi Mandi, Kanpur. Further, State of Uttar Pradesh was directed to undertake health survey of the area and ensure shifting of the chromium dumps within three months.

Official from UP Jal Nigam informed that drinking water through tankers are being provided to the residents.

Additional Director CPCB informed that as per the NGT order dated 27.09.19, CPCB has been directed to submit report in this regard and requisite information is awaited from concerned departments.

Chairman-Supervisory Committee directed UPPCB, UPSIDC and concerned department of UP Government to submit necessary information to CPCB for submission of report to NGT.

The meeting ended with thanks to Chair.

List of participants:

1. Shri U. P. Singh, Secretary, DoWR, RD&GR, Ministry of Jal Shakti – *in Chair*-
2. Shri Rajiv Ranjan Mishra, Director General, NMCG
3. Shri S K Haldar, Member (WP&P), CWC cum Chairman Special Committee
4. Prof. A. K. Gosain, IIT Delhi – Expert Member
5. Prof. A.A. Kazmi, IIT Roorkee - Expert Member
6. Shri. D. P. Mathuria, Executive Director – Technical, NMCG & Member Secretary, Supervisory Committee
7. Shri Vikas Gothawal, Managing Director, UP Jal Nigam
8. Shri Sundeep, Director – MoEF&CC, Member, Implementation Committee
9. Shri. Dheeraj Singhal, Deputy Director, NMCG
10. Dr. A.K.Vidyarathi, Additional Director, CPCB
11. Shri Balram Singh, Additional District Magistrate, Gautam budh Nagar
12. Shri N K Janoo, CCF, Meerut
13. Shri Satish Mane, MoHUA
14. Shri Yogender Pal Singh, Scientist E, MoEF&CC
15. Shri R.K.Chaudhary, CE, SMCG-UP
16. Shri S Chandra, Gm (Engg), UPSIDC
17. Shri G S Srivastava, CE (Ghaziabad) UPJN
18. Shri V N Singh, CE, GDA
19. Shri Ritesh Khattar, Director CWC, FCA-2
20. Shri Bhupesh Kumar, SJC (PP), DoWR, RD&GR
21. Shri Ravi Shankar, CE, CWC
22. Mohd Faiz Syed, DD, CWC, FCA-II
23. Shri Amit Kumar Singh, Assistant Commissioner, Industry Department, GoUP
24. Shri T. U. Khan, Chief Environment Engineer, UPPCB
25. Shri Trilok Chandra Sharma, CE (Ganga), Irrigation Department, U.P
26. Shri Sandeep Chandra, CE, UPSIDC, Kanpur
27. Shri R K Pal, Kanpur Nagar Nigam
28. Dr. S.R. Taigor, Environment Specialist, SMCG-UP
29. Shri D Kumar, EE, UP Irrigation
30. Dr. Prabhat Ranjan, Scientist B, CPCB

31. Dr. Firoz Ahmad, RA, CPCB
32. Shri Rahul Yadav, SE, NMCG
33. Mrs. Ruby Raju, Project Engineer, NMCG
