

T-12/2017-18/NMCG/Vol.II
National Mission for Clean Ganga
Ministry of Water Resources, River Development &
Ganga Rejuvenation

1st Floor,
Major Dhyan Chand National Stadium
India Gate, New Delhi – 110002

Date: May, 2019

OFFICE MEMORANDUM

Subject: Minutes of the Meeting held on 12.04.2019 at 11:00 AM under the Chairmanship of Chairperson-Monitoring Committee

A copy of Minutes of the Meeting held on 12.04.2019 at 11:00 AM under the Chairmanship of Justice Arun Tandon, Chairperson-Monitoring Committee in Conference Room NMCG regarding the progress made in compliance to the Hon'ble NGT's judgement dated 13th July 2017 in the matter OA No. 200/2014, is forwarded herewith for kind information and necessary action.

This issues with the concurrence of Chairperson-Monitoring Committee.


(D.P.Mathuria) 06.5.2018

Executive Director-Technical

Member Secretary-Supervisory Committee

To:

1. Principal Secretary, Urban Development Department, 824, Babu Bhawan Lucknow, Uttar Pradesh – 226001
2. Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-110032
3. Member Secretary, Uttar Pradesh Pollution Control Board, Building No. TC – 12V, Vibhuti Khand, Gomti Nagar, Lucknow – 226 010
4. Managing Director, Uttar Pradesh Jal Nigam, 6, Rana Pratap Marg, Lucknow – 226001, Uttar Pradesh
5. Project Director, State Mission for Clean Ganga-UP, Plot N0-18, Sector-7, Gomti Nagar Extension, Lucknow, - 226010
6. Municipal Commissioner, Kanpur Nagar Nigam, Moti Jheel, Harsh Nagar, Kanpur, Uttar Pradesh - 208002
7. Chief Engineer, Irrigation Water Resources, Government of Uttar Pradesh, Cantt Road, Udaiganj, Lucknow, Uttar Pradesh – 226001
8. Principal Secretary, Krishi Bhawan, Madan Mohan Malviya Marg Lucknow – 226001

9. Chief Executive Officer, Tagore Road, Kanpur Cantonment, Uttar Pradesh (India), PIN – 208004
10. Office of the Principal Chief, Conservator of Forests (PCCF), 17, Rana Pratap Marg, Lucknow, (U.P.), 226001

Copy for kind information:

1. PS to Chief Secretary, 1st Floor, Room No. 110, Lal Bahadur Shastri Bhawan, Uttar Pradesh Secretariat, Lucknow – 226 001
2. Principal Secretary, Department of Environment, U.P., Room No. 601, Bapu Bhawan Secretariat, Vidhan Sabha Marg, Lucknow – 226001
3. PS to Director General, NMCG
4. Chairperson-Monitoring Committee
5. Member-Monitoring Committee
6. PS to ED (Project/Finance/Admin), NMCG
7. Director Technical (III) and Consultant IP, NMCG

Minutes of Meeting held on 12th April 2019 at 11:00 AM in Conference Room, NMCG

A meeting of the Monitoring Committee (Ganga) of NGT in the matter OA No. 200/2014, with the officials of NMCG, CPCB, UPPCB, UP Jal Nigam and UP SMCG was held on 12.04.2019 at Conference Room, NMCG under the Chairmanship of Justice Arun Tandon, Chairman-Monitoring Committee. The list of participants is at **Annexure-I**.

Chairman-Monitoring Committee appreciated the compiled compliance status (as of March 2019) submitted to the Committee by NMCG in compliance to NGT order dated 11.03.2019. On the basis of the submission made, status of the STP, drain tapping and CETP projects were reviewed and following discussions were held:

A. Status of Drains flowing into River Ganga/ RamGanga/ Kali in Phase-1 Segment B (Haridwar to Unnao).

Chairman-Monitoring Committee enquired about the percentage of drains tapped in this stretch, percentage of tapped drains being treated, proposal for treatment of untapped drains and steps being taken by the UP Jal Nigam to ensure the maintenance of already tapped drains.

Official from UP Jal Nigam informed that about 60% of the drains falling into River Ganga have been tapped and all the tapped drains are being diverted and treated in STPs. Tapping of remaining drains is under-progress.

Committee has directed that the current status along with time lines for completion of the projects under-progress must be submitted in a months' time. The report must indicate the volumes of drain that are diverted to a STP and the capacity of those STP's.

i. Hemraj drain and Chhoiya drain (Bijnore)

Member-Monitoring Committee informed that Hemraj drain is partially tapped, flow of the drain is discharging into a nearby pond and only 4 MLD flow reaches the 24 MLD STP commissioned in Bijnore. It was suggested to take up the proposal for diverting the water of the pond to the STP for treatment.

Official from UP Jal Nigam informed that sewerage network is existing in Bijnore, proposal for house-sewer network connections in AMRUT scheme was submitted in January 2019 and is yet to be approved by State Government.

Special Secretary, Urban Development Department (UDD) UP informed that due to ongoing elections and implementation of code of conduct, State Government cannot sanction or approval any project, therefore a minimum of 2-3 months would be required for approval of the project. It was also informed that for cities/ towns having more than 1 lakh population, house-sewer connections are being taken up in AMRUT scheme.

Executive Director-Technical NMCG suggested that UPJN may explore alternate options to increase the utilization capacity of existing STP, till the completion of house-sewer connections in Bijnore.

Monitoring Committee raised concern over the maintenance of the drains by ULBs, due to constraints in funds, manpower and priority, which ultimately leads to drain overflowing due to choking and flooding.

Special Secretary, UDD-UP informed that a proposal to appoint one responsible stakeholder/ agency for maintenance of the drains in major cities such as Ghaziabad, Bijnore is under consideration of the State Government to address the issues arising due to multiple stakeholders.

Chairman-Monitoring Committee directed that till the implementation of the said proposal, State may issue directions to all Nagar Nigams/ Palikas to maintain the drains in their command areas.

Chhoiya drain carries treated water and no tapping is required, therefore Monitoring Committee directed CPCB and UPPCB to regularly monitor the industries in the catchment area of the drain and to issue directions in case of any violation observed.

ii. Anupshahr (STP drain I and II)

Official of UP Jal Nigam informed that two STPs having 1 and 1.5 MLD capacity was commissioned and are operational. The city is covered by sewerage network and no drain discharges untreated sewage into the river.

iii. Brijghat drain and Garh drain (Garhmukteshwar)

It was informed that two drains are tapped and two STPs having 3 MLD and 6 MLD capacity have been made operational, but the 3 MLD STP is under-utilized.

Official of UP Jal Nigam informed that the 3 MLD STP is having some issue which will be resolved within 15 days.

iv. HathikhanaNallah, BargadiyaghatNallah, CanttNallah, Bhairon ghat and Deenapur Drain (Farrukhabad-Fathegarh)

Official of UP Jal Nigam informed that the project for establishment of total 35 MLD STP was sanctioned under Hybrid Annuity Model through Namami Gange Programme and was awarded to Essel Infra (Concessionaire), but due to conveyance of inability by Essel, the project is to be re-tendered.

Member-Monitoring Committee directed UP Jal Nigam to provide status report along with bidding/ completion timelines to the Committee.

It was informed that the works related to tendering, financial closure and award will require 7-8 months, further 18 months would be required for completion of civil works and commissioning of STP. Therefore tentatively the project would be completed by 2021.

Member – Monitoring Committee enquired about the actions being taken by the government with regard to the waste being discharged from scale small textile industries into the drains and the mixed effluent reaching the proposed STP at Farrukhabad.

Executive Director-Technical NMCG informed that the STP project was sanctioned and characteristics of sewage flowing in the drains mentioned presence of industrial discharge which will be taken care by Concessionaire during design phase.

v. CETP at Farrukhabad

Further it was informed that CETP at Farukhabad is proposed to be established with the development of proposed textile industrial park. Land has been made available to SPV and Environment Clearance for the textile park from MoEF&CC is awaited.

Monitoring Committee suggested NMCG to request MoEF&CC to issue environment clearance for the proposal at the earliest possible, as the untreated industrial effluent is being discharged into the river.

vi. PattaNala, Adanganala and TammiNalah (Kannauj)

Official of UP Jal Nigam informed that all three drains are tapped and diverted to the 13 MLD operational STP at PattaNala

- vii. PermiyaNala, Ranighat drain, Sisamau Nala, TefcoNala, Parmath drain, Muir drain, Police line drain, Jail drain, BhagwatdasNala, Gola ghat Nala, Satti Chaura, Dabka Nalla, Sheetla Bazar, Budhiya ghat Drain, Wazidpur Nalla, Air force Nala, PankiNala, ICI Nala, Ganda Nala, HalwaKhandaNala and COD Nala (Kanpur)**

Official of UP Jal Nigam informed that Sismau Nala has been tapped and the flow of 60 MLD is diverted STP at Jajmau and 80 MLD flow diverted to Bingwana. Tefco Nala has been tapped and diverted to Parmath Nala Pumping Station. Ranighat Nala was previously tapped during GAP and further is proposed to be tapped in the on-going sewerage project for district-I and overflow of less than 1 MLD is proposed to be treated by bio-remediation. PermiyaNala is tapped and flow diverted to Jajamu STP. Parmath drain and Jail drain is tapped and diverted to Jajmau STP.

It was also informed that sewerage project with 30 MLD STP has been sanctioned which will cover the remaining flow which is getting discharged into rivers. UP Jal Nigam agreed to provide timelines of all the projects in Kanpur to Monitoring Committee.

Chairman-Monitoring Committee directed Member Secretary UPPCB to impose Environmental Compensation of Rs.50,000/ day on UPSIDC for discharging untreated effluent into UPSIDC drain, Rooma.

Member-Monitoring Committee enquired about the 15 MLD STP at Baniyapur under commissioning since October 2018. UP Jal Nigam informed that due to non-availability of power connection the STP could not be commissioned. Monitoring Committee directed UP Jal Nigam to issue notice to the electricity department on the basis of compliance required for NGT orders. UP Jal Nigam informed that the power connection should become available by June 2019.

Monitoring Committee raised concern over the status of two drains Golaghat and Satti Chaura, as in the past two years only DPR has been prepared by Cantonment Board-Kanpur. Official of UP Jal Nigam informed that due to non-availability of funds, work has not been initiated. Chairman-Monitoring Committee directed UPPCB to impose Environmental Compensation on Cantonment Board-Kanpur for non-compliance to NGT order.

Officials of UP Jal Nigam informed that COD Nala is fully tapped while Ganda Nala is partially tapped, 20 MLD of flow from the drain is diverted and treated at 210 MLD STP at Bingwana, 35 MLD flow is getting discharged into the river.

Member-Monitoring Committee informed that during the visit more than 100 MLD was observed to be discharging into river through Ganda Nala.

Official of UP Jal Nigam informed that pumping station and sewer network under AMRUT scheme is proposed, which will reduce the flow in the drains. Further it is proposed by Jal Nigam to divert the flow of 15 MLD to the under-construction STP at Pankha Nala. It was also informed that 210 MLD STP was constructed for the design period of 2020-25, therefore 35 MLD additional capacity would be required for the design period 2035. For district-3 Kanpur, 70 MLD gap in treatment has been estimated.

Executive Director-Technical NMCG informed that NMCG has sanctioned the 30 MLD STP project only for diverting and treating the wastewater discharging from Pankha and ICINalah and do not include the 15 MLD sewage as proposed by UP Jal Nigam and no such information has been provided or discussed with NMCG.

Monitoring Committee directed NMCG and UP Jal Nigam to discuss and resolve the issues related to gap in treatment facility in Kanpur separately. Further, it directed UP Jal Nigam to prepare a report and submit with regard to district-wise and sector-wise sewage generated, sewage treated and gap in treatment facility in Kanpur to NMCG for examination.

Member Secretary UPPCB informed that 2 STPs namely 130 MLD Jajmau and 210 MLD Bingwana are non-complying with the norms.

Monitoring Committee directed UPPCB to levy Environmental Compensation per day per breach and District Magistrate Kanpur may realize the compensation amount towards non-compliance of the STPs.

viii. City Jal Drain and Loni Drain (Unnao)

UP Jal Nigam informed that work is in progress under Namami Gange Programme for interception and diversion of City Jal Drain and its treatment in 13 MLD under-construction STP, with likely date of completion by December 2021. Work of house-sewer network is in progress in the catchment area of Loni drain, the drain is proposed to be tapped and diverted to 13 MLD STP under AMRUT scheme.

Monitoring Committee raised concern over the treatment capacity proposed for Unnao and directed UP Jal Nigam to submit status and timelines for completion of work.

Official from NMCG informed that based on the modular approach, it was proposed that in Phase-I of the project, 13 MLD STP will be constructed in Unnao and when the STP capacity would be fully utilized, further additional capacity of 13 MLD plant in Phase-II would be sanctioned and constructed in the same complex.

ix. CETP at Unnao

Executive Director-Technical NMCG informed that the proposal for dilution based CETP is not feasible for Unnao & Banthar due to non-availability of dilution water in the vicinity, therefore ZLD has been proposed to be adopted. NMCG has communicated its comments and the observations of TPA (NEERI) on the DPR to the industrial associations for modification in the DPR.

Monitoring Committee directed NMCG to submit details of last communication made to the industrial association and directed that a meeting of Monitoring Committee with the Industrial Associations of Unnao and Banthar may be held immediately. Further meeting of Technical Evaluation Committee may also be convened to take a final call on DPR proposed by industrial association and observations therein preferably in the last week of April 2019.

x. Moradabad (Ramganga)

Official of UP Jal Nigam informed that Moradabad is divided into IV Zones. In Zone-I, 58 MLD STP has been commissioned, 2 drains have been tapped (Prabhat Nagar drain and Katghar Railway Station Drain), work is in progress for tapping of 12 remaining drains (Nawabpura Drain 1st, Nawabpura Drain 2nd, Chakkar Ki Milak, Jigar Colony, Barbalan Drain, Kudaghar Drain, Jama Masjid Left Drain, Jama Masjid Right Drain, Ghosiyar Drain, Jhabbu Ka Nala, Lalbagh Drain and Daheria/ Dateria Drain) and house sewer connections, which are expected to be complete by December 2019.

For Zone-II, I&D project for tapping 5 drains namely Vivekanand Hospital Drain – Left, Vivekanand Hospital Drain -Right, MIT Drain, Moksh Dham Drain and TDI City Drain with 25 MLD STP has been sanctioned by NMCG for implementation under HAM model, for which tender were invited earlier but had to be re-invited as single bid was received. The tendering process including the works are expected to be completed by December 2021.

Chairman desired that timelines for completion of tendering process, financial closure and COD may be provided.

A 40 MLD STP and 34 MLD STP respectively has been proposed for Zone-III and IV (Karula Drain) of Moradabad, land for the same has been identified but is yet to be purchased. It was also informed that proposal for treatment of Karula Drain through bio-remediation during Kumbh was submitted to the State Government, but the proposal was not accepted as the drain was not directly discharging into R.Ganga.

Director-Technical NMCG informed that 25 MLD STP Project for Moradabad was sanctioned by NMCG under one city one operator, for which TA has been engaged. TA has been assigned the task of sewerage management for works Zone 3 and 4 of Moradabad also, which could not be undertaken owing to non-finalization of land issue since past 2 years. This has led to non-utilization of services of TA for these zones for which financial agreement is in place leading to wasteful utilization of services.

Official of UP Jal Nigam informed that the land has been identified, its cost has been communicated to State Government and approval of the same is awaited.

Monitoring Committee conveyed dissatisfaction at the steps taken for treatment of sewage of Zone 3 and 4 and directed UPPCB to levy Environmental Compensation on Municipal Board Moradabad for discharge of untreated sewage into river against the NGT order. Further, it directed concerned department to submit the proposal with completion timeline for treatment of sewage generated in Zone 3 and 4 of Moradabad.

xi. Rampur drain (Rampur)

Member-Monitoring Committee informed that there are 3 STPs existing of 14, 15 and 5 MLD capacity in Rampur which are not being utilized.

UP Jal Nigam informed that 5 MLD is non-operational due to electricity issues, while 14 and 15 MLD STPs have been transferred by UP Jal Nigam to Nagar Palika Parishad-Rampur for operation and maintenance, but due to non-availability of funds from Nagar Palika, both the STPs are lying idle. Therefore the untreated sewage is being discharged into the river. NPP-Rampur has also requested State Government to provide funds for maintenance of the STPs. It was also informed that work is in progress for house sewer connection under AMRUT scheme.

Member Secretary UPPCB informed that notice have already been issued to District Administration, Rampur with regard to non-compliance of STPs.

Monitoring Committee was highly unsatisfied with the progress informed with regard to STPs in Rampur. Special Secretary Urban Development Department informed that ULBs, in general, do not have adequate funds for all kind of works mandated to them including O&M of existing STPs. The State Government is considering a policy level proposal for allotting dedicated funds for managing such situation of ULBs towards O&M of existing STPs. In opinion of the Committee, STPs constructed cannot be allowed to remain non-functional for whatever reasons and continue to directly discharge untreated wastewater into the river. This amounts to criminal wasteful expenditure incurred by State and clearly calls for fixing responsibility of concerned officials. In view of this, Committee directed UPPCB to issue notices for levy of Environmental Compensation upon Nagar Palika Parishad-Rampur and UP Jal Nigam at the rates notified by NGT in its judgment dated 13.07.2017 in the matter OA No. 200/2014.

Scientist-D CPCB informed that during industrial inspection in July 2018 and November 2018, the distillery (ZLD) in Rampur was found to be non-complying with regard to colour of water in the drain. Therefore CPCB had issued show cause notice and further closure notice was issued to the industry. In January 2019, the industry was found to be operational and the colour of the discharge had drastically improved. But no revocation notice for closure was issued by CPCB. Further it was informed that the unit is still operational based on the permission granted by UPPCB. Member Secretary UPPCB informed that during site visit in December 2018- Jan 2019, the industry was found to be complying with norms.

Executive Director-Technical NMCG observed that since this particular industry has attained ZLD and therefore, it is not understood how the colour of drain can show improvement over last one year when the industry remains compliant and nothing from industry is led into the drain. The quality of water in drain deteriorates particularly in the vicinity of this particular industry.

Monitoring Committee suggested that UPPCB cannot neglect/ ignore the orders issued by CPCB and directed UPPCB that closure orders issued by CPCB be followed and industry must remain closed for want of compliance. Concerned authority may take appropriate action in this regard and submit status report to Committee before the next meeting. It was

also informed that Hon'ble NGT in the matter has directed joint inspection of the industry by CPCB and UPPCB.

xii. Devraniya, Nakatiya, Chaubari (Bareilly)

Officials from UP Jal Nigam informed that in Central Zone Bareilly, project for trunk sewer and 35 MLD STP has been sanctioned under AMRUT scheme. Same is in tendering stage and agreed to provide status and timeline to Monitoring Committee.

Executive Director-Technical NMCG informed that NMCG has sanctioned project for I&D of drains with a total of 63 MLD STP for Bareilly under Hybrid Annuity Model, which is clubbed with the 25 MLD project sanctioned for Moradabad. NMCG also agreed to provide timelines and status of the project to the Committee.

Director-Technical NMCG informed that the NMCG sanctioned project for Bareilly includes 20 MLD STP for Chaubari drain, for which land is yet to be made available and this may lead to delay in implementation of the project.

Monitoring Committee was informed that 20 MLD STP to be set up for treatment of sewage of Chaubari drain has already identified land, but it is not been made available by District Administration because of which project will be adversely affected. As the I&D projects of Bareilly and Moradabad are clubbed up, it was directed that District Magistrate and District Administration Bareilly may be requested to ensure suitable land is identified and made available for the project. If any land is available for any STP constructed earlier, the land must be made available. Monitoring Committee also directed Urban Development Department UP to take appropriate actions, UP Jal Nigam to provide status and timelines and UPPCB to levy Environment Compensation on concerned authority for discharging untreated wastewater into the river.

xiii. Manan Road Nalla, AdilnagarNala, Chandbari Road, Cheel ghat, Narshal ghat, Adil Nagar 2, Kasai Bada, Faisalabad road, Behind Shanidev mandir, Devipura, Bridge Dhameda Road and Behind Chamunda mandir (Bulandshahr)

Official from UP Jal Nigam informed that work has been awarded for sewerage network with 40 MLD STP to be constructed under AMRUT scheme in Bulandshahr. The project will tap and treat all the 12 drains discharging into the river from Bulandshahr, with expected completion timeline of February 2021.

Monitoring Committee observed serious discrepancy in the flow monitoring data of CPCB and UP Jal Nigam, therefore directed UP Jal Nigam to re-verify the drains for flow and file an affidavit in NGT within a month, providing details of the project along with the justification that the project will cover all the drains and no untreated discharge shall be meeting the river from Bulandshahr.

xiv. STP at Narora

Member MC enquired about the operational status of 4 MLD STP in Narora and directed UPJN to provide information regarding the proposal pending and their timelines.

Official of UP Jal Nigam informed that the STP in Narora is non-operational, the untreated effluent is being discharged into a pond and work is in progress for house-sewer connections.

Monitoring Committee directed UPPCB to impose environmental compensation on per day basis on District Magistrate/ District Administration of Narora (Bulandshahr) for discharging untreated sewage and not complying with NGT orders.

xv. Abu Nala -1, Abu Nala-2 and Odean Nala (Meerut)

Executive Director Technical NMCG informed that NMCG has sanctioned I&D project with a total 214 MLD STP for tapping, diverting and treating the flow from the three drains. It was also informed that drains in Meerut have become open solid waste dumping yard due to poor monitoring and surveillances towards management of solid waste by municipal bodies.

Monitoring Committee informed that the Committee shall visit, undertake reconnaissance of the drains, its condition and dumping of solid waste by various agencies along its banks. Further, the Committee was informed that 72 MLD STP at Meerut is under-utilized due to non-completion of work of laying of trunk sewer line of about 70m length for taking effluent to the STP. The land parcel through which this length of 70m shall pass has been under litigation in District Court as a private individual has laid claim to this piece of land which otherwise reportedly belongs to MDA. The Committee shall examine the issue with the authorities (UP Jal Nigam, CPCB, UPPCB).

xvi. Hapur

Officials of UP Jal Nigam informed that sewerage project with 30 MLD STP has been sanctioned under AMRUT and is in tendering stage. Further, a proposal was submitted to

NMCG for I&D of two drains in Hapur (Hapur drain and Hapur city drain) and treatment in the 30 MLD STP. NMCG has recommended and conveyed that the I&D project would be taken up on 50% completion of the STP project as I&D works do not take much time to complete.

After detailed discussions, Monitoring Committee observed that various STP projects are either in consideration or in construction phase, specifically for the cities of Bulandshahr, Meerut, Hapur, Moradabad, Barielly etc. All present in the meeting agreed such project will require at least a year for successful commissioning and functioning. Monitoring Committee recommended that for compliance of the NGT order, concerned agencies such as NMCG, CPCB, UPPCB and UP Jal Nigam/ State of Uttar Pradesh may coordinate and explore alternate mechanism/ interim measure for treatment of the drains in major polluting cities until the completion of the STP projects in order to prevent pollution of rivers due to discharge of untreated waste water. Proposal in this regard may be submitted to the Committee before the next meeting. Committee also directed that web-cameras may be installed for verification of functioning of STPs in Uttar Pradesh. The real time output from these web cameras shall be provided access to Central Control unit to remain functional at concerned District Ganga Committee for which necessary infrastructure including manpower for monitoring/ surveillance may be established immediately. NMCG may consider providing financial support to these DGC's for the purpose.

B. Discussion on issues regarding water quality monitoring and OCEMS

i. Water quality monitoring

Member-Monitoring Committee informed that dissimilarity was observed in water quality and quantity monitoring data of different agencies such as CPCB, SPCB and technical institutes (through SMCG), even when the sample was collected by both the agencies at same location during their individual site visits. Further, to resolve this issue, it was suggested that CPCB/NMCG may develop and issue standard monitoring protocol, which may be followed by all the agencies. It was also suggested that one single agency may carry out monitoring of the respective drain. For monitoring the flow, it was suggested that permanent structure may be installed by UPJN at appropriate locations of the drain. Sampling locations are identified at

least 10 kms away from the confluence point to the river, considering the issue of dilution which may arise due to backflow of the river.

Member Secretary UPPCB informed that due to limited number of manpower and labs in UP, UPPCB could not monitor and analyze entire drains in their regional laboratories, therefore the strengthening of infrastructure and manpower is in process through NMCG funded project.

Scientist D-CPCB informed that pre-monsoon and post-monsoon monitoring of drains in 2018 was carried out jointly by CPCB and UPPCB, and the data was analyzed in CPCB.

Director Technical-NMCG informed that ~10% error is acceptable on the basis of sampling location and time.

Member Secretary-UPPCB informed that sampling locations of the drains monitored by UPPCB are fixed and their GPS locations have already been shared with CPCB and UP-SMCG. UPPCB monitors the identified drains weekly and uploads the data on their website, login ID and password of the same have been shared with CPCB. It was also informed that dissimilarity in the data of different agencies owes to the change in sampling locations.

Monitoring Committee recommended that NMCG may coordinate with CPCB and UPPCB to resolve the issue and submit its findings to the Committee.

ii. Online Continuous Effluent Monitoring System (OCEMS)

Chairman- Monitoring Committee informed that during their visit to Unnao, it was observed that Loni drains traverses a distance of 50 km before its confluence with Ganga and becomes dry enroute. ED Tech NMCG informed that the water of the drain is drawn by farmers for irrigation and the reasoning that these drains do not meet the river and therefore do not require treatment is misplaced. It was mentioned that any untreated effluents/ sewage discharged into water body will affect the groundwater of the catchment area and pollutants will move along the flow lines and may meet river also.

Monitoring Committee agreed that chemicals from these industries affect the water quality of the area and directed that UPPCB may strictly inspect and monitor the industries operational in the catchment area of the drains.

Member Secretary UPPCB informed that the industries are regularly monitored for compliance by physical verification and through Online Continuous Emission Monitoring System (OCEMS) installed in these units.

Following suggestions were made/ discussed by Member-Monitoring Committee:

- i. Separate electricity connection may be supplied to the ETPs in the unit,
- ii. Same instrument for OCEMS should be installed at inlet and outlet of the effluent discharge, without any wire media sensor
- iii. Standard operating procedure may be developed and followed by all the units,
- iv. Industries found to be tampering the OCCEM may be imposed with heavy penalties.
- v. Further, suggested that CPCB may calibrate the OCCEMS installed in the units.

Scientist D- CPCB informed that there are two types of OCCEM, one is insitu and other one is external and the latter is susceptible to manipulations. The OCCEMS are calibrated by industries at their own expense. It was also informed that in order to resolve the issue of tampering, a proposal for regular calibration of OCCEMS through third party is under consideration of CPCB.

Member Secretary, UPPCB informed that CPCB monitors Grossly Pollution Industries (GPIs) once in a year, while UPPCB monitors GPIs quarterly. Due to limited no.of manpower and to eliminate the issues resulting due to human interface, industries were directed to install OCCEMS. Following suggestions were made by MS UPPCB:

- i. Installation of web-cameras for monitoring the operational status of the ETPs.
- ii. Water quality monitoring at District level by establishing small scale labs.

Based on the discussions held, following directions were made by the Monitoring Committee:

- i. All GPIs in State of Uttar Pradesh are directed to mandatorily install CCTV/ web-camera at ETPs and final discharge outlet unit within a month. The data from these cameras shall be accessed to UPPCB, CPCB and NMCG for ensuring compliance with respect to the ETP and discharge standards. The real time output from these web cameras shall also be provided access to Central Control unit to remain functional at concerned District Ganga Committee for which necessary infrastructure including manpower for monitoring/ surveillance may be

established immediately. NMCG may consider providing financial support to these DGC's for the purpose for which a proposal may be submitted by UPPCB to NMCG within a month's time.

- ii. UPPCB to issue appropriate directions to all GPIs in Uttar Pradesh. This will ensure compliance to NGT order that no untreated effluent should be discharged into the river.

It is decided to have the review meeting on 16 May, 2019 at New Delhi itself.

The meeting ended with thanks to the Chair.

Annexure-I

List of participants:

1. Justice Arun Tandon, Chairperson-Monitoring Committee – *in chair* -
2. Dr. Anita Roy, Member-Monitoring Committee
3. Shri.D.P.Mathuria, Executive Director-Technical, NMCG
4. Shri. Ashish Tiwari, Member Secretary, UPPCB
5. Shri SP Shahi, Special Secretary, Urban Development Department UP
6. Dr. R.M.Bhardwaj, Consultant Industrial Pollution, NMCG
7. Dr. Pravin Kumar, Director Technical, NMCG
8. Shri. T.U.Khan, CEO, UPPCB
9. Shri AjayaRastogi, CE(Ganga) UP Jal Nigam
10. Shri M.K.Biswas, Scientist D, CPCB
11. Dr.S.R.Taigor, Environment Specialist, UP-SMCG
12. Shri. G.S.Srivastava, CE (Ghaziabad), UP Jal Nigam
13. Shri A.K. Razvi, UP Jal Nigam,
14. Shri. S.Mathur, UP Jal Nigam
15. Shri Keshva Gupta, SE, UP Jal Nigam
16. Shri AmritLal Bind, UP Jal Nigam
17. Shri GhanshyamDwivedi, UP Jal Nigam
18. Shri BivashRanjan, Department of forest, UP
19. Shri G.K.Murty, Team Leader NMCG
20. Shri Deepinder Singh, Deputy Team Leader, NMCG
21. Shri Amitabh Kumar, SE Irrigation Department UP
22. Shri Shatrughan Singh, UP Jal Nigam
23. Ms. Nidhi Dwivedi, Project Officer (Technical) NMCG
24. Shri K.B. Jain EE, UP Jal Nigam
25. ShriM.P.Singh, UP Jal Nigam