

TE-11015/1/2018-O/oED(TECH)/NMCG
National Mission for Clean Ganga
Ministry of Jal Shakti, Government of India

1st Floor,
Major Dhyan Chand National Stadium
India Gate, New Delhi-110002
Dated: 5th August, 2019

OFFICE MEMORANDUM

Subject: Minutes of the 4th Meeting of Principal Committee held on 26.07.2019 at 03:00 PM under the Chairmanship of Secretary, DoWR, RD&GR, Ministry of Jal Shakti.

A copy of Minutes of the 4th Meeting of Principal Committee in the matter of O.A. No. 10 of 2015 held at Conference Room, Ministry of Jal Shakti on 26.07.2019 at 03.00 PM under the Chairmanship of Secretary, DoWR, RD&GR, Ministry of Jal Shakti is forwarded herewith for information/ necessary action.


(D. P. Mathuria) 05.8.2019

Executive Director (Technical) NMCG
Member Convener, Principal Committee

Encl: As above.

Copy To:

1. Additional Secretary, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jor bagh Road, New Delhi – 110032
2. Chief Secretary, Govt. of Uttarakhand, 4 Subash Road, Uttarakhand Secretariat, Fourth Floor New Building, Dehradun, Uttarakhand 248001
3. Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-110032
4. Financial Advisor, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jor bagh Road, New Delhi – 110032
5. Prof A. K. Gosain, Department of Civil Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi - 110 016
6. Dr. C.R. Babu, Centre for Environmental Management of Degraded Ecosystems, School of Environment Studies, University of Delhi-110007.
7. Dr. A. B. Akolkar, Flat No. H-503, Mayurdhwaj Apartment, IP Extension, Patparganj Delhi-110092
8. Additional Chief Secretary, Environment and Forest, Uttarakhand Secretariat, 4 Subash Road, Dehradun, Uttarakhand -248001
9. Secretary (Medical, Health &FW) and Urban Development, Govt. of Uttarakhand, Room No. 301, Vishwakarma Building, Uttarakhand Secretariat 4 B, Subhash Road, Dehradun, Uttarakhand -248001
10. Secretary, Irrigation Department, Govt. of Uttarakhand, 4 Subhash Road, Secretariat, Forth Floor, New Building Dehradun, Pin code-248001
11. Secretary Environment and Forest, Uttarakhand Secretariat, 4 Subash Road, Dehradun, Uttarakhand -248001

12. Member Secretary, Uttarakhand Environment Protection and Pollution Control Board, Gaura Devi Bhawan, 46 B IT Park Sahasthradara, Dehradun, Uttarakhand- 248001
13. Managing Director, Uttarakhand Pey Jal Nigam, 11- Mohini Road, Dalanwala Dehradun - 248001 Uttarakhand
14. Managing Director - Uttarakhand Jal Sansthan, Nehru Colony B- Block, Uttarakhand Jal Sansthan, Dehradun - 248001
15. Dr. S.D.Singh, APCCF/ Nodal Officer (Environment Cases), Government of Uttarkhand
16. Project Director, SMCG Uttarakhand, 117 Indira Nagar, Dehradun 248001 Uttarakhand

Copy for kind information:

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 DG, NMCG
3. PS to ED (Project/Finance/Admin), NMCG
4. Dr. Praveen Kumar, Director (T-III), NMCG

**Minutes of 4th Meeting of the Principal Committee in the matter of O.A. No. 10 of 2015
held at Conference Room, Ministry of Jal Shakti**

A meeting of the Principal Committee in the matter of O.A. No. 10 of 2015 – Indian Council for Enviro-legal Action Vs NGRBA and others as well as OA No. 200/2014 M. C. Mehta Vs Union of India and others, was held on 26.07.2019 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.

Uttarakhand Government presented an action taken status report in compliance to the Hon'ble NGT judgement dated 10.12.2015 and the previous Principal Committee meeting held on 24.04.2019. Issues discussed in the meeting are as follows:

1. Technical Advisor SMCG Uttarakhand informed that based on the recommendations of the Committee in its previous meeting, minutes of the DGCs are being regularly uploaded on SPMG website. It was also informed that the State level Supervisory Committee in its meeting held on 17.07.2019, had directed that all the District Magistrates of the DGCs must take cognizance and develop a decentralized monitoring mechanism for evaluation of assets created/ to be created for liquid waste management, their optimal utilization and performance audit of all the projects. In its compliance, SMCG proposes to develop a monitoring mechanism and will share the details with Chairman of the DGCs. Further, it was informed that dashboard is being created for monitoring of the projects, which shall be linked with NMCG website for information to the public.
2. Executive Director-Technical NMCG informed that the Monitoring Committee constituted by Hon'ble NGT, under the Chairmanship of Hon'ble Justice U.C.Dhyani had visited a few locations and have submitted detailed report of the site visit to Hon'ble NGT. It was informed that in the report that Monitoring Committee with Prof (Dr) A.A. Kazmi, IIT Roorkee as technical expert had recommended that the 16 small STPs based on electrocoagulation technology needs a review of its performance as regards technology and sludge handling. It was informed that fresh water appears as inflow into STPs with no sludge generation. Executing agency (UKPJN), SMCG Uttarakhand and Technical Institute (IIT-Delhi), who had vetted the technology may

review the performance of these STPs and suggested that IIT Delhi should provide the technical review and performance report of these plants.

Managing Director, Uttarakhand Pey Jal Nigam informed that electro-coagulation technology is a new technology in India. Initially, the feasibility of the technology was being examined by IIT-Delhi on pilot scale. Based on the recommendations of IIT-Delhi, Uttarakhand Government adopted the technology.

Prof. A.K.Gosain suggested that performance of the plant may be monitored with respect to the discharge parameters and report in this regard may be submitted to Hon'ble NGT.

Director Technical, NMCG informed that out of 16 STPs, few plants were commissioned in early September 2018. However the performance reports of these STPs is yet to be done by UKPJN which shows negligence in approach during last 10 months lapsed since September'2018. Executive Director-Technical NMCG informed that the report of the Monitoring Committee highlights that the no sludge treatment facility is available in these STPs.

General Manager (Ganga) UKPJN informed that the due to low values of BOD in influent STP flow in Uttarakhand as compared to other States, the quantity of sludge produced is low. This sludge is being utilized as fertilizers in nearby agriculture fields or for gardening. Further, it was informed that existing STP in Haridwar (27 MLD and 18 MLD in Jagjeetpur) is equipped with digesters and sludge drying beds for treatment of sludge and the dried sludge are sold free of cost as manures.

It was concluded that probably Monitoring Committee was not briefed properly as deputed person from UKPJN was not probably well versed with operation of the STPs.

Chairman-Principal Committee suggested that senior officials well acquainted with the project details should be deputed with Monitoring Committee during site visits. Further it was recommended that requisite information may be provided to the Monitoring Committee.

Technical Advisor SMCG Uttarakhand informed that the report of the Monitoring Committee highlights that unplanned mushroom growth on the slopes leads to the water channels constriction and make the task of managing solid and liquid waste

extremely difficult. Municipal and construction demolition waste management is at a nascent stage.

Chairman-Principal Committee suggested that city-wise details of solid waste produced, processed, no. of processing plants, landfill sites be provided.

Nodal Officer, SWM, UDD, Uttarakhand informed that in 97.40% wards, door to door collection of waste is being done and in 32.60% wards segregation of wet and dry waste has been started. 100% door to door collection is targeted till October 2019 and 100% source segregation by April 2020. Screens have been fixed in all the drains to restrict entry of solid waste in the river, regular cleaning of screens are being carried out. It was also informed that regular cleaning of banks and Ghats are being done in Haridwar. DPR for legacy waste treatment costing Rs. 26.23 Cr. has been prepared by UUSDA/ ADB program support (Uttarakhand Urban Sector Development Agency) and proposed to be treated as per SWM Rules'2016 provisions.

Technical Advisor SMCG Uttarakhand informed that the report of the Monitoring Committee recommends that extensive plantations activities are immediately required to protect the river bank from encroachments and environmentally degrading activities such as pitching of tents for rafting, using banks for dumping of solid waste and taking up of construction activities.

Director General, NMCG informed that under Namami Gange Programme, DPRs for Forestry Intervention for all 5 States of River Ganga have been prepared by Forest Research Institute (FRI) Dehradun. Subsequently, the implementation work has been initiated since 2016 for a period of 5 years.

Chairman-Principal Committee highlighted that NMCG has provided funds for plantation activities in Uttarakhand for a period of 5 years and suggested that CAMPA funds and State Government funds may be utilized optimally. It was suggested that the year-wise details of the plantation activities undertaken, area covered may also be included in the report.

Secretary, Drinking Water and Forest, Uttarakhand informed that several activities have been initiated by the Uttarakhand Government such as deployment of Eco-Task Force, preservation of the forest cover, engagement of schools, colleges and institutions for creating awareness and public participation etc.

3. Technical Advisor SMCG Uttarakhand informed that UEPPCB has inventorized list of Hotels, Ashrams and Dharmshalas for consideration of Ashrams and Dharmshalas under the consent Management of UEPPCB. Further, the list will be shared with the District Ganga Committee, for monitoring and ensuring connections to sewer lines, and appropriate action will be taken against the defaulters.

It was also informed that the plan for connecting the Hotels and Dharmshalas to the STP in Tapovan is under-progress. Hotels and Ashrams in Rishikesh have been connected to the STP, the project for I&D of drains with STP in Rishikesh is under-progress.

4. Technical Advisor SMCG Uttarakhand informed that treated water from STPs at Haridwar are being utilized in irrigation through canals. Further, possibility is being explored by Irrigation Department to reuse effluent from Rishikesh STP. It has been proposed to utilize treated water from STP at Dhalwala, at Forest Nursery/ Parks. Also, request has been made to forest department also to reuse treated water for forestry purposes and nursery development. UK Pey Jal Nigam/ UEPPCB was directed to take action accordingly.

Prof. A.K.Gosain suggested that State Agriculture Department may encourage farmers to adopt best irrigation practices such as use of sprinklers in irrigation, micro-irrigation etc. in order to reduce water consumption.

Chairman-Principal Committee recommended that other than irrigation, treated water can be utilized for non-potable uses such as industrial applications, construction activities, road constructions etc.

5. Technical Advisor SMCG Uttarakhand informed that for the enforcement of Septage Management Protocol in the Ganga towns following actions have been taken.
- i. SMCs constituted in all 16 Ganga priority towns.
 - ii. Meeting of SMCs convened and fixing of role and responsibilities-10
 - iii. Septage suction and transportation vehicles procured/ available – 3 towns (Chamba, Muni-Ki-Reti and Srinagar)
 - iv. Treatment of Septage in existing STPs- 3 towns.
 - v. Scope of Work for household survey has been developed by UDD-GIZ.

- vi. Survey and mapping of septic tanks in Rishikesh is being done with the support of GIZ.
- vii. Formats for registration of private vehicle operators has been developed by UDD in co-operation with GIZ and sent to ULBs to complete the registration process.

It was informed that IIT Roorkee in co-ordination with SPMG-GIZ has initiated the feasibility study of mixing of septage with sewage and its treatment in the conventional STPs. The study is under progress and report will be submitted by the next month.

Also, SPMG has directed Uttarakhand Jal Sansthan to give priority for regular sludge analysis and promote the application of sludge in coordination with Horticulture and Agriculture departments. The lab test reports of STP Haridwar, Rishikesh and Uttarakashi have been received for the month of May and June. Jal Sansthan to take steps for promotion of sludge reuse as manure.

- 6. Director SIDCUL, Uttarakhand informed that for Pant Nagar-Out of 499 industries, 255 industries have no conveyance system. At present, DPR to lay conveyance system has been approved by SIDCUL. Tendering process has not been finalized as yet. For Haridwar, out of 531, 20 industries have no conveyance system. Work will be started soon by Uttarakhand Pey Jal Nigam.

Director SIDCUL, Uttarakhand informed that a study was conducted by IIT-Roorkee for re-use of treated water from the CETPs by the industries. As per the report of the study, about 1258 KLD i.e 28 % of the treated water from CETP can be utilized for various non-portable purposes, specifically for Horticulture and gardening. It can be increased to 2000KLD under strong compulsion by SPCB/ CPCB. SPCB can make it mandatory to meet 25 % of their total water demand by reclaimed water. It suggests that the project is doable from technical point of view with approximate O&M tariff at Rs 4-7/KL.

Principal Committee recommended that a meeting may be convened by officials of CPCB, UEPPCB with the SIDCUL industrial association to resolve the issue of establishment of ZLD, and suggested to appraise NGT accordingly.

7. Official from Irrigation department, Uttarakhand informed that Flood Plain Zone has been notified in two stretches - 10 Km reach of river Bhagirathi in Uttarakashi (from Gangori to Badethi Chungi), 50 Km in Haridwar along Ganga (from Chandi bridge to UP Border). Further it was informed that the State Government has decided to prepare flood plain zoning along the major tributaries of Ganga upstream of Devprayag. Survey and Hydrological study work in the following 6 stretches has been completed: Gangotri to Devprayag, Bhilangana River, Badrinath to Devprayag, Mandakini River, Devprayag to Rishikesh, Rishikesh to Bhimgoda barrage. There after preparation of flood plain map with details of khasara nos. and notifications will have target to complete by June 2020.

Prof. A.K.Gosain suggested to the floodplain demarcation must also consider 1 in 50 year return period of the floods.

8. Technical Advisor SMCG Uttarakhand informed that Hon'ble NGT in its order had directed Uttarakhand Government to ensure display of water quality of River Ganga. Further, Chief Secretary in the meeting held on 03.06.2019 directed UEPPCB to install the real time water quality monitoring system in an expeditious manner and to compile all the data of river Ganga and its tributaries river water quality in River Ganga. Subsequently, for installation of Real Time River Water Quality Display system at two places in Haridwar, tenders have been invited by Uttarakhand Pey Jal Nigam and are being finalized.

Principal Committee appraised the decision and recommended that robust system (preferably IOT or modern system) for automatic collection and interpretation of the data is important for real time monitoring system. Therefore, proper validation of the data generated and functioning of the system must be ensured prior to display of data. The validation of data should be done without fail.

9. Nodal Officer (Green issues) Uttarakhand informed that with regard to regulating mining activities in Haridwar, Supervisory Committee of NGT for Uttarakhand has directed the mining departments to conduct technical study by a credible technical institute so that appropriate actions can be taken after obtaining statutory permissions.

Principal Committee noted and suggested that activity will be regulated as per Environment Clearance from MoEF&CC, which is pending at their end.

10. Principal Committee recommended that with regard to the STP projects, details such as progress, completion timeline, compliance status of the existing STPs may also be included in the report. Further, the Committee recommended to expedite the projects. Principal Committee directed Uttarakhand Government to include the recommendations of the Committee in the compliance status to be submitted in NGT. The meeting ended with vote of thanks to the Chair.

Annex-I

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 Arvind Singh Hyanki, Secretary, Drinking Water and Forest, Uttarakhand
4. Dr. C. R. Babu, Expert Member, PC
5. Prof. A. K.Gosain, Expert Member, PC
6. Shri. Uday Raj Singh, Project Director, SPMG
7. Shri. D. P. Mathuria, Executive Director – Technical, NMCG
8. Shri. Bhajan Singh, Managing Director, Uttarakhand PeyJal Nigam
9. Dr. Pravin Kumar, Director-Technical, NMCG
10. Shri. Y.P.Singh, MoEF&CC
11. Shri. Manoj Srivastava, DS (IFD), MoEF&CC
12. Shri. Prabhat Raj, Technical Advisor, SPMG, Uttarakhand
13. Shri. Lokesh Sharma, Director (Planning) SIDCUL, Uttarakhand
14. Shri Ravi Pandey, SE, Nodal Officer, SWM, UDD, Uttarakhand
15. Dr. S. D. Singh, Nodal Officer, Green issues, Uttarakhand
16. Shri A K Rastogi, GM Ganga, UKPJN
17. Dr. Rajendra Singh, RO, UEPPCB
18. Shri. Sanjeev Kr. Srivastava, SE, Irrigation department, Uttarakhand
19. Ms. Poonam Chand, Joint Director, Uttarakhand Tourism
20. Shri Ajay Kumar, EE, Uttarakhand Jal Sansthan
21. Shri. M. K. Biswas, Sci-D, CPCB
22. Shri. Akshay Kumar, Environment Specialist, SPMG, Uttarakhand
23. Shri. Kumar Ajitabh, Project Officer Legal, NMCG
24. Mrs. Ruby Raju, Project Engineer, NMCG