

No. PCC/DDD/NGT-673/2018/18-19/388  
Office of the Member Secretary,  
Pollution Control Committee,  
DD & DNH,  
Daman.

Date :- 30/12/2020


To,  
The Executive Director (Technical),  
NMCG, Ministry of Jal Shakti,  
1<sup>st</sup> floor, Major Dhyan Chand National Stadium,  
India Gate, New Delhi - 110032.

**Sub.-** Compliance of the order of NGT (PB), in O.A. No. 673/2018 dated 06/12/2019 in the matter of news items published in "The Hindu" authored by Shri Jacob Koshy titled "More river stretches are now critically polluted: CPCB"– reg.

Sir,

With reference to the above mentioned subject, progress report for the month of November, 2020 in respect of UT of DNH and DD as per the revised format provided, is enclosed for your kind perusal and information.

Yours sincerely,

  
Member Secretary  
Pollution Control Committee,  
DNH & DD.  
Daman

Copy to :- The Member Secretary,  
Central Pollution Control Board,  
Parivesh Bhawan, East Arjun Nagar,  
Delhi – 110032.

**National Mission for Clean Ganga**  
**Submission of Monthly Progress Report in the NGT Matter OA No. 673 of**  
**2018 for the month of October, 2020 (in compliance to NGT order dated**  
**24.09.2020)**

**For the UT of Dadra Nagar Haveli (DNH) and Daman & Diu**

**Overall status of the State:**

<b>I.</b>	<b>Total Population</b>	<p>Daman Population :</p> <ul style="list-style-type: none"> <li>- Urban : 50,000</li> <li>- Rural : 147000</li> </ul> <p>Diu Population :</p> <ul style="list-style-type: none"> <li>- Urban : 24000</li> <li>- Rural : 28000</li> </ul> <p>Silvassa (DNH) Population :</p> <ul style="list-style-type: none"> <li>- Urban : 98265</li> <li>- Rural : 239385</li> </ul>
<b>II.</b>	<b>Estimated Sewage Generation (MLD)</b> :	<p>Daman : 7.5 MLD</p> <p>Dadra Nagar Haveli : 10.5 MLD</p> <p>Diu : 3.2 MLD</p>
<b>III.</b>	<b>Details of Sewage Treatment Plant</b>	
	Existing no. of STPs and Treatment Capacity (in MLD)	02 Nos of STPs. In Daman there is 4.21 MLD and in Dadra Nagar Haveli, 13 MLD STP is operational.
	Capacity Utilization of existing STPs	In Daman, STP operational on 100 % load. In Dadra Nagar Haveli, 2.10 MLD sewage is being received.
	MLD of sewage being treated through Alternate technology	In rural areas, sewage is treated and disposed through Soak pit and Septic tank.
	Gap in Treatment Capacity in MLD	In Daman, additional 16 MLD STP is planned and in Diu, DPR for 7 MLD STP is approved.
	No. of Operational STPs	02 Nos.

No. of Non-complying STPs	Nil
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**Details of each existing STP in the State**

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
1	Daman	4.21 MLD	4 MLD	Operational	Complied
2	Dadra Nagar Haveli	13 MLD	1.93 MLD	Operational	Complied

**Details of under construction STPs in the State**

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
	Nil	--	--	--	--

**Details of proposed STPs in the State**

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Daman	16 MLD	At DPR Stage	2021
2	Diu	7 MLD	DPR at Technical Sanction	2021

IV.	<b>Details of Industrial Pollution :</b>	
	No. of industries in the State	7387
	No. of water polluting industries in the State	262
	Quantity of effluent generated from the industries in MLD	6542.74 KLD
	Quantity of Hazardous Sludge generated from the Industries in TPD	1077.34 MT
	Number of industrial units having ETPs	262
	Number of industrial units connected to CETP	Not Applicable
	Number and total capacity of ETPs (details of existing/ under construction / proposed)	262 Nos of ETPs and Total Capacity of ETPs – 11409.2 KLD

	Compliance status of the ETPs	Complied
	Number and total capacity of CETPs (details of existing/ under construction / proposed)	Nil There is no CETP in UT of Dadra Nagar Haveli and Daman & Diu

- Status of compliance and operation of the CETPs : Not Applicable

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Daman	3379	Nil	Complied	Nil
Dadra Nagar Haveli	3953	Nil	Complied	Nil

V.	Solid Waste Management	
	Total number of Urban Local Bodies and their Population	03 Nos Daman Municipal Council, Silvassa Municipal Council, and Diu Municipal Council
	Current Municipal Solid Waste Generation	Daman Municipal Council- 29 TPD Silvassa Municipal Council - 46 TPD Diu Municipal Council - 14 TPD
	Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc	i. Daman Municipal Council – 01 No. Compost Plants of 100 MT/Day. ii. Silvassa Municipal Council – 01 No. Compost Plants of 150 MT/Day. iii. Diu Municipal Council - MoU is signed with Ultra Tech Cements (Narmada Cement Jafarabad Works).
	Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20 %)	Nil

No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	Nil
Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source	<p>i. Daman Municipal Council :</p> <ul style="list-style-type: none"> <li>- No. of Wards – 15</li> <li>- No. of wards having door to door collection – 15,</li> <li>- No. of wards practicing segregation at source – 09 (60 %).</li> </ul> <p>ii. Silvassa Municipal Council :</p> <ul style="list-style-type: none"> <li>- No. of Wards – 15</li> <li>- No. of wards having door to door collection – 15,</li> <li>- No. of wards practicing segregation at source – 15.</li> </ul> <p>iii. Diu Municipal Council :</p> <ul style="list-style-type: none"> <li>- No. of Wards – 13</li> <li>- No. of wards having door to door collection – 13,</li> <li>- No. of wards practicing segregation at source – 13.</li> </ul>
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	Nil, No additional MSW treatment facilities proposed and under construction.
No. and area (in acres) of un-controlled garbage dumpsites and sanitary landfills	Nil, No un-controlled garbage dumping and sanitary landfills.
No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	Nil
No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	<p>No. of drains – 13 nos</p> <p>Phyto-remediation and Bioremediation proposal for the identified drain has been received from NEERI and the same is</p>

		under process. The drain near Rajiv Gandhi Setu, Daman is being considered for in-situ treatment on pilot basis.
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**Status of ULB wise Management of Solid Waste**

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
Daman Municipal Council	29 TPD	29 TPD	100 % collection and segregation carried out, Composting plant of capacity 100 MT/Day is operational. Recycled waste is being sent to Cement factories at Kodinar and Rujula, Gujarat and Dhar, Madhya Pradesh.	100 %	Nil
Silvassa Municipal Council	46 TPD	46 TPD	100 % collection is carried out. Integrated Solid Waste Management Facility is installed and have a Windrow Composting plant of 150 MT/Day is operational	100 %	Nil
Diu Municipal Council	14 TPD	14 TPD	100 % collection is carried out. MoU is signed with Ultra Tech Cements (Narmada Cement Jafarabad Works). municipal solid wastes are being lifted by the industry	100 %	Nil

			directly from the dumpyard		
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<b>VI.</b>	<b>Bio-medical Waste Management :</b>	
	Total Bio-medical generation	350 kg/day
	No. of Hospitals and Health Care Facilities	209 nos.
	Status of Treatment Facility/ CBMWTF	There is no CBMWTF in the UT. Pollution Control Committee has authorized CBMWTF, M/s En-clar Biomedical Waste Pvt. Ltd., Surat for collection, transportation, treatment and disposal.
<b>VII.</b>	<b>Hazardous Waste Management</b>	
	Total Hazardous Waste generation	3876.72 MT
	No. of Industries generating Hazardous waste	370 Nos
	Treatment Capacity of all TSDFs :	Capacity of Landfill site – 02 Lakh M/Annum, Capacity of Incinerator – 2.5 MKcal/Hr
	Avg. Quantity of Hazardous waste reaching the TSDFs and Treated	3313.199 MT Hazardous waste disposed
	Details of on-going or proposed TSDF	Nil
<b>VIII.</b>	<b>Plastic Waste Management:</b>	
	Total Plastic Waste generation	1947.7 TPD
	Treatment / Measures adopted for reduction or management of plastic waste	Use, Sell and Storage of plastic carry bags are banned in the UT. Authorization given plastic scrap dealers and recyclers by the local bodies and Pollution Control Committee.

**IX. Details of Alternate Treatment Technology being adopted by the State/UT :**

- 12 nos Septic tank emptier vehicles in Daman District and 08 nos in DNH District to clean and collect the sewage from septic tank of individual households and transport it to sewage treatment plant.
- Phyto-remediation and Bioremediation proposal for the identified drain has been received from NEERI and the same is under process. The drain near Rajiv Gandhi Setu, Daman is being taken up for in-situ treatment on pilot basis.
- 04 Panchayats have been proposed for standalone modular STP i.e. Damanwada, Magarwada, Pariyari and Patlara. District Panchayat, Daman is working out the details and preparation of DPR.
- In DNH, total 4220 households have been connected to the sewerage transportation scheme so far against 24,105 households.

**X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment :**

Polluting sources are identified. 13 nallahs / drains have been identified for Phyto remediation and Bioremediation measures. NEERI has submitted a proposal on Phyto remediation and Bioremediation measures for in-situ treatment of drains. The work is being initiated for in-situ treatment of the drain near Rajiv Gandhi Setu, Daman on pilot basis.

**XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT:**

Secretary, Urban Development for municipal area and Secretary, Rural Development for rural areas are the Nodal Authority for compliance in the UT of Dadra Nagar Haveli and Daman & Diu.

**XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:**

The Advisor to the Administrator held meeting on regular basis with Urban Development, Rural Development and Pollution Control Committee and asked to comply with the directions related to Solid Waste Management, Sewage Management, Plastic Waste Management, Bio-medical Waste Management and Hazardous Waste Management



**XIII. Latest water quality of polluted river, its tributaries, drains with flow details of polluted river :**

- The data for the month of November, 2020 is as under :
  1. DO : 4.5 – 7.3 mg/l
  2. BOD : less than 1 to 3 mg/l
  3. Total Coliform : 47 to more than 1600 MPN/100 ml
  4. Fecal Coliform : 14 to 900 MPN/100 ml
  5. Fecal Streptococci : 4 to 240 MPN/100 ml

**XIV. Ground water regulation:**

- In the UT of Dadra Nagar Haveli and Daman & Diu, 67 bore well and 33 open wells have been successfully recharged through rooftop recharging system in 14 Gram Panchayats of Daman district.
- Additional location for recharge of ground water is being identified in each Gram Panchayats and each Gram Panchayats have taken the Rain Water Harvesting / Recharge work under their respective Action Plan.
- In industrial area, all the industries were directed to obtain No Objection Certificate (NOC) from Central Ground Water Authority (CGWA).

**XV. Good irrigation practices being adopted by the State:**

- Farm ponds have been created for ground water rejuvenation. Terrace cultivation is being practiced in the undulating terrains of DNH.
- Farm ponds have been maintained to check and reduce runoff.
- Training programs carried out for awareness on micro irrigation projects for Farmers.

**XVI. Rain Water Harvesting:**

- 7 Conventional RWH structures were built under Adarsh Gram Panchayat by PWD, District Panchayat, Daman.
- 67 Nos. of rooftop rain water harvesting structures have been installed to recharge bore wells and 33 Nos. of open wells in 14 Panchayats of Daman district.
- 2 Ponds have been successfully recharged.

- Gram Panchayats have undertaken the Rain Water Harvesting / Recharge work under their respective Action Plan. All the government premises located in Panchayat areas are being implemented RWH systems in their premises.
- All new industrial units and construction projects shall provide suitable rainwater harvesting system to reduce dependency over ground water resource or to recharge the ground water table.
- Check dams and percolation tanks have been constructed to reduce runoff and improve the ground water recharge and erosion.

**XVII. Demarcation of Floodplain and removal of illegal encroachments :**

- The illegal encroachments along the drains / nallahs have been removed by the District Administration.
- Regular inspections by Municipal Council / District Panchayat are being carried out to check the free flow of water & ensure no obstacles.

**XVIII. Maintaining minimum e-flow of river :**

Minimum environmental flow for the river is maintained at various locations. Developed the Riverfront area along Damanganga river stretch in Silvassa.

**XIX. Plantation activities along the rivers :**

- Tree plantations were carried out along the nallah and inlets in upstream area and along the river.
- Mangrove plantation in 36 Ha in Diu and 4 Ha in Daman along Damanganga river near Moti Daman have been taken up.
- Plantation near the check dams have been carried out in Dadra Nagar Haveli. Necessary initiatives are being taken by the local bodies and forest department to increase the plantation on both the sides of the river by creating awareness programs. Regular plantation have been carried out at various locations in Dadra Nagar Haveli.

**XX. Development of biodiversity park :**

Following bio-diversity parks had been setup in the Damanganga River catchment area:

1. Nakshatra Van.
2. City Park.
3. Butterfly Garden
4. Precedent Garden.

**XXI. Reuse of Treated Water :**

Treated water from STP is being reused daily for works such as road washing, horticulture, soil compaction, irrigation etc.

**XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards :**

- There is only one river Damanganga in the UT of Dadra Nagar Haveli and Daman & Diu, which is under Priority I as per the NGT order. Actions are already proposed and steps towards achieving bathing quality are taken.
- Polluted river stretches are divided in five priority category i.e. I, II, III, IV, V depending upon the BOD level:
  - i. Criteria for Priority I : BOD concentration 30 mg/l or more.
  - ii. Criteria for Priority II : BOD between 20 – 30 mg/l
  - iii. Criteria for Priority III : BOD between 10-20 mg/l
  - iv. Criteria for Priority IV : BOD between 6-10 mg/l
  - v. Criteria for Priority V : BOD between 3-6 mg/l
- Now, the quality of the river is improved and all the monitoring locations have BOD - 3 mg/l or less. Therefore, the river Damanganga does not falls under Polluted River Stretch as categorized in NGT order (i.e. Priority I, II, III, IV, V)

**XXIII. Status of Preparation of Action Plan by the 13 Coastal States :**

- Integrated Coastal Zone Management plan for Daman & Diu is proposed under ENCORE project funded by World Bank and MoEF&CC.
- Monitoring study was carried out for the beaches namely Jampore and Devka beach in Daman through NIO, Mumbai and there is no evidence of deterioration of environment quality of beaches in Daman & Diu.
- It is proposed to take up coastal water quality assessment study in Daman & Diu through National Centre for Coastal Research, Chennai.
- The Ghoghla beach in Diu is among the 8 beaches in the country awarded with Blue Flag Certification.
- India has also bagged 3<sup>rd</sup> prize under the International Best Practices in pollution abatement in coastal regions.

**XXIV. Regulation of Mining Activities in the State/UT:**

There is no mining activity carried out in the UT of Dadra Nagar Haveli and Daman & Diu.

**XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.**

Regular monitoring and inspections are being carried out to identify the polluters and any law violators in the UT. For violations, appropriate directions / notices are being issued with environmental compensation based on polluter pay principle.