

National Mission for Clean Ganga
Submission of Monthly Progress Report in the NGT Matter OA No. 673 of
2018 for the month of November, 2021
(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:

I.	Total Population	<p>Daman Population :</p> <ul style="list-style-type: none"> - Urban : 50,000 - Rural : 147000 <p>Diu Population :</p> <ul style="list-style-type: none"> - Urban : 24000 - Rural : 28000 <p>Silvassa (DNH) Population :</p> <ul style="list-style-type: none"> - Urban : 98265 - Rural : 239385
II.	Estimated Sewage Generation (MLD) :	<p>Daman : 7.5 MLD</p> <p>Dadra Nagar Haveli : 10.5 MLD</p> <p>Diu : 3.2 MLD</p>
III.	Details of Sewage Treatment Plant	
	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, 13.00 MLD STP is operational.
	Capacity Utilization of existing STPs	In Daman, STP operational on 100 % load. In Dadra Nagar Haveli, 2.4 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. In Diu, 7 MLD STP is approved and work in under construction.
	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	2.4 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
01	Diu	7.0 MLD	--	--	Completion of the work is 15 months

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	The topographical survey work is in progress.	120 Days (Topographical survey)

IV.	Details of Industrial Pollution :	
	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 TPA	1071.34 MT/Annum
	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	3973	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- 28 TPD Silvassa Municipal Council – 55 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"> - No. of Wards – 15 - No. of wards having door to door collection – 15, - No. of wards practicing segregation at source – 09 (60 %). <p>ii. Silvassa Municipal Council :</p> <ul style="list-style-type: none"> - No. of Wards – 15 - No. of wards having door to door collection – 15, - No. of wards practicing segregation at source – 15. <p>iii. Diu Municipal Council :</p> <ul style="list-style-type: none"> - No. of Wards – 13 - No. of wards having door to door collection – 13, - No. of wards practicing segregation at source – 13.
	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	No. of drains – 13 nos

	drains having floating racks/screens installed to prevent solid waste from falling into the rivers	- After issuing the work order, NEERI has carried out pre-feasibility survey of the proposed drains (03 Nos.) for installation of In-Situ treatment in Daman.
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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	28 TPD	28 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	55 TPD	55 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	100 %	Nil

			wastes are being lifted by the industry directly from the dumpyard		
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VI.	Bio-medical Waste Management :	
	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-cler Biomedical Waste Pvt. Ltd., Surat for collection, transportation, treatment and disposal.
VII.	Hazardous Waste Management	
	Total Hazardous Waste generation	4629 MT/Annum
	No. of Industries generating Hazardous waste	822 Nos
	Treatment Capacity of all TSDFs :	Capacity of Landfill site – 02 Lakh M/Annum, Capacity of Incinerator – 2.5 M Kcal/Hr
	Avg. Quantity of Hazardous waste reaching the TSDFs and Treated	Avg. 4396.075 MT/Annum of Hazardous waste disposed
	Details of on-going or proposed TSDF	Nil
VIII.	Plastic Waste Management:	
	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.
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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 approved. After issuing the work order, NEERI has carried out pre-feasibility survey of the proposed drains (03 Nos.) for installation of In-Situ treatment in Daman.
- 04 Panchayats have been proposed for standalone modular STP i.e. Damanwada, Magarwada, Pariyari and Patlara. District Panchayat, Daman. DPR is prepared and placed before the UT Level Committee.
- **In DNH, 5832 number of households have been connected to the sewerage network.**

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. The work is being initiated for in-situ treatment of the drain near Rajiv Gandhi Setu, Daman. Pre-feasibility survey has been carried by the officials of the NEERI.

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 October, 2021 is as under :

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|-----------------------|-----------------------------|
| 1. DO | : 4.4-7.6 mg/L |
| 2. BOD | : less than 1 to 11.09 mg/L |
| 3. Total Coliform | : 36 to >1600 MPN/100 ml |
| 4. Fecal Coliform | : 8 to 1600 MPN/100 ml |
| 5. Fecal Streptococci | : 6 to 885 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.
- Deepening of ponds have been carried out to improve irrigation, ground water and to conserve rain water.

XVI. Rain Water Harvesting:

- 07 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.
- 02 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 in 300 Ha of area in Dadra & Nagar Haveli along the nallah and inlets in upstream area and along the river.
- Mangrove plantation in 60 Ha. has been taken up in Diu and Daman districts. The marshy areas near Damanganga River near Moti Daman have been planted with Mangroves.

- 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.
- Bamboo plantation have been carried out in 25 Km area 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.
- Operators of the STPs at Daman and Silvassa started use of mobile based application developed by CPCB and regularly update the status of the STP.

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).

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4. Fecal Coliform : 8 to 1600 MPN/100 ml
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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.
- The Ghoghla beach in Diu is among the 8 beaches in the country awarded with Blue Flag Certification.
- India has also bagged 3rd prize under the International Best Practices in pollution abatement in coastal regions.
- The National Centre for Sustainable Coastal Management, Chennai has been requested for preparation of action plan for Management of Coastal areas of Daman and Diu as per directions of CPCB.
- National Institute of Oceanography (NIO), Mumbai has carried out monitoring of Jampore and Devka beach in UT of Daman in 2018. As per the report, it is concluded that there is no evidence for significant deterioration of environmental quality of the beaches investigated except for high Faecal Coliform counts which is common in coastal waters of India.

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.