

No. PCC/DDD/NGT-673/2018/18-19/94  
Office of the Member Secretary,  
Pollution Control Committee,  
DD & DNH,  
Daman.

Date :22.06.2020

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.

**Ref.:-** Your letter No: L-34/2014-15/Legal/2019 (Part) dated 22/01/2020.

Sir,

With reference to the above mentioned subject, the progress report in respect of DNH&DD as per the format provided is enclosed for your kind 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.

**Submission of Progress Report by UT of Dadra Nagar Haveli and Daman & Diu  
(Hon'ble NGT in the matter of OA No. 673/2018 dated 06.12.2019)**

<b>Sl. No.</b>	<b>Activity to be monitored</b>	<b>Timeline</b>	<b>Compliance Status</b>
1	Ensure 100 % treatment of sewage at least in-situ remediation.	30.06.2020 for District Panchayat, Daman And 31.12.2020 for DMC, Daman.	- Pre-monsoon and Post-monsoon activities of desilting work of all natural drains and sewage is done every year .  - In 2020-21, desilting work of 38 Natural Drains, 38 Sewage line and 30 culverts with a total length of 47 km are under desilting process 75 % work completed by District Panchayat, Daman.
	Commencement of setting up of STPs and connecting all the drains and other source of generation of sewage to the STPs must be ensured.	30.09.2020 for District Panchayat, Daman And 31.12.2020 for DMC, Daman.	- For Moti Daman area, STP of 4.21 MLD capacity is operational. - For Nani Daman area, DPR for STP of 16 MLD capacity with 65 km sewage networking line is prepared and under process. - The centralized STP and Sewage Networking Project planned earlier is currently proposed at modular level in each Gram Panchayat. - Commencement and Setting up of 13.00 MLD Sewerage Treatment Plant, Silvassa is completed. Work for connection of households to the sewerage scheme is under progress.
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning.	31.03.2021	Setting up and commissioning of STP is completed. Connection of 100% Households for sewerage collection is targeted to be achieved up to 31.03.2021.
3	Chief Secretaries may set up appropriate monitoring mechanism at State Level:		Committee is being constituted at UT level and District level to monitor the progress and implementation.
	Specifying accountability of nodal authorities not		Secretary, Urban Development for municipal areas and Secretary, Rural

	below the Secretary level.		Development for Rural areas.
	Chief secretaries may have an accountable person attached in their office for this purpose.		
	Monitoring at State level must take place.	Fortnightly commencing	
4	<p>Progress report may be furnished by the State/UTs to</p> <ul style="list-style-type: none"> <li>• Secretary, Ministry of Jal Shakti.</li> <li>• Member Secretary, CPCB</li> </ul>		Report as per specified formats will be sent.
5	Progress report may be comprised of details along with completion timelines on:		
	i. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.		<ul style="list-style-type: none"> <li>- Polluting drains contributing to river pollution is already identified in the Action Plan.</li> <li>- Pre-monsoon and Post-monsoon activities of desilting work of all natural drains and sewage in the jurisdiction of District Panchayat, Daman is done every year.</li> <li>- Wastewater generating industries were identified. Industries are not permitted to discharge wastewater outside the premises and regular monitoring and inspection is being carried out.</li> </ul>
	ii. <u>Status of STPs, I&amp;D and sewerage networks.</u> Details of existing infrastructure, Gap analysis, Proposed along with completion timeline.	31.03.2021	<ul style="list-style-type: none"> <li>- For Moti Daman area, STP of 4.21 MLD capacity is operational.</li> <li>- For Nani Daman area, STP of 16 MLD capacity is under process.</li> <li>- The centralized STP and Sewage Networking Project planned earlier is currently proposed at modular level in each Gram Panchayat expected to be completed by March, 2021.</li> <li>- STP of 13 MLD capacity is located near Piparia Industrial area, Silvassa. STP is functional from 19/01/2019. As per</li> </ul>

			Census 2011, Silvassa Municipal Council has 24,105 households. Out of which, 2751 households have been connected to the sewerage scheme so far. Currently, 0.8 MLD is received at STP and 100% is treated. Moreover, 0.024 MLD treated water is being reused daily for works such as road washing, horticulture, soil compaction etc.
iii. <u>Status of CETPs.</u> Details of existing CETP and ETP infrastructure, Gap analysis, Proposed along with completion timeline, No. of industries and complying status.	--	-	<ul style="list-style-type: none"> <li>- There is no CETP installed in the UT of Daman and Dadra Nagar Haveli.</li> <li>- All the wastewater generating industries have installed ETP.</li> <li>- No industry is permitted to discharge industrial effluent outside the premises.</li> </ul>
iv. <u>Status of Solid Waste Management &amp; Details of Processing Facilities.</u> Details of existing infrastructure, Proposed along with completion timeline.	--		<p><u>Existing Infrastructure -</u></p> <ul style="list-style-type: none"> <li>• 100% Door to Door garbage collection have been initiated in Municipal area and all the 14 Gram Panchayats of Daman district.</li> <li>• The garbage collected is transported to the Processing site of Daman Municipal Council at Dunetha with the resource of respective Gram Panchayat / District Panchayat.</li> <li>• 100 % processing is achieved by collection, segregation, composting and recycling in Daman district.</li> <li>• Composting plant of 100 MT/Day is installed and operational.</li> <li>• At DNH, 100% Door-to-Door segregated waste is collected. 100% all the waste collected is processed as Solid Waste Management Plant at Kharadpada.</li> </ul>
v. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river.	--		Water quality of polluted river is enclosed as Annexure - I

<p>vi. Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.</p>	<p>On regular basis</p>	<ul style="list-style-type: none"> <li>- To prevent illegal dumping of waste, regular monitoring carried out by Municipal Council and Panchayat.</li> <li>- Awareness programmes and community mobilisation is being carried out.</li> <li>- Generated bio-medical waste disposed through the CBMWTDF M/s En-clear Pvt. Ltd., Surat, Gujarat.</li> <li>- Plastic waste generated from residential and commercial area is being collected by Municipal council and Panchayat and disposed through the recycler.</li> <li>- Other bio-degradable waste is being processed through Composing Plant of capacity 100 MT/Day.</li> <li>- Waste from Hotel and Industries are managed and process by themselves.</li> <li>- In DNH, to manage plastic waste, Solid Waste Management (Handling and Management) (Amendment) Bye-Laws, 2018 has been approved and published in Extra Ordinary Gazette on date: 10<sup>th</sup> January 2020. Further, plastic shredding machine is installed in Dadra and Nagar Haveli to convert plastic waste in refused derived fuel (RDF). Agreement is also done with authorised recyclers and cement industry to recycle plastic and use RDF. As per policy, solid waste is being processed centrally in SMC area. Silvassa Municipal Council have convinced Bulk waste generators such as Hoteliers with accommodation capacity of 100 beds or above to process their waste through composting in their respective premises. 02 hotels have already commenced to process their waste to compost. Bio-medical waste management is under the purview of Department of Health &amp; Family Welfare, D&amp;NH and DD.</li> </ul>
<p>vii. Ground water regulation.</p>	<p>31.09.2020</p>	<ul style="list-style-type: none"> <li>- 67 bore well and 33 open wells have been successfully recharged through rooftop recharging system in 14 Gram Panchayats of Daman district and are still identifying additional buildings and govt. office for the same.</li> <li>- In industrial area, all the industries were directed to obtain No Objection Certificate (NOC) from Central Ground</li> </ul>

			<p>Water Authority (CGWA).</p> <ul style="list-style-type: none"> <li>- All the upcoming construction and industrial projects shall be issued strict instruction for providing a suitable rainwater harvesting system.</li> <li>- In 2020-21, training and awareness programme under Jal Shakti Abhiyan will be organized.</li> </ul>
viii. Adopting good irrigation practices,	--		<ul style="list-style-type: none"> <li>- Farm pond of 30 x 15 mt. has been implemented in Kachigam as a part of Jal Shakti Abhiyan for Benefitting for ground water rejuvenation.</li> <li>- Training programme for awareness on Jal Shakti Abhiyan and micro irrigation projects for Farmers was conducted at FTC, Kachigam on 15th October, 2019</li> </ul>
ix. Protection and management of Flood plain Zones (FPZ),			<p>Forest department had constructed 29 check dams in the catchment area of Damanganga River for flood plain zone protection.</p>
x. Rain water harvesting,	31.09.2020		<ul style="list-style-type: none"> <li>- In 2019-20 7 Conventional RWH structures were built under Adarsh Gram Panchayat by PWD, District Panchayat, Daman.</li> <li>- Rain water harvesting was implemented with 67 Nos. of rooftop recharge of bore well and 33 Nos. of open wells in 14 Panchayats of Daman district and are still identifying additional buildings and govt. office for implementing RWH.</li> <li>- 2 Ponds have been successfully recharged during Jal Shakti Abhiyan in 2019.</li> <li>- All the upcoming industrial and construction projects shall be issued strict instruction for providing a suitable rainwater harvesting system to reduce dependency over ground water resource or to recharge the ground water table.</li> <li>- In DNH to provide rain water harvesting for 8 nos. of Borewell, 16 nos. of openwell recharge and 02 nos. of rooftop through injection well system at Mandoni and Sindoni Panchayat under Jal Shakti Abhiyan.</li> </ul>

xi. Maintaining minimum environmental flow of river,		Minimum environmental flow for the river is maintained at various locations.
xii. Plantation on both sides of the river,		<ul style="list-style-type: none"> <li>- Tree plantations were carried out by Panchayats and Industrial estate as a part of Jal Shakti Abhiyan. About 5500 trees were planted in Panchayat areas.</li> <li>- In the UT of Daman, both sides of the river are covered with the Mangroves. Necessary initiatives shall be taken by the local bodies and forest department to increase the plantation on both side of the river by creating awareness programs. In addition to that regular plantation carried out at various location.</li> <li>- Total 7500 nos. of trees are planted under Jal Shakti Abhiyan. Necessary initiatives shall be taken by the local bodies and forest department to increase the plantation on both the sides of the river by creating awareness programs. In addition to that regular plantation carried out at various location.</li> </ul>
xiii. Setting up biodiversity parks on flood plains by removing encroachment.		<p>Following bio-diversity parks had been setup in the Damanganga River catchment area:</p> <ol style="list-style-type: none"> <li>1. Nakshatra Van.</li> <li>2. City Park.</li> <li>3. Butterfly Garden</li> </ol> <p>Necessary initiatives shall be taken by the local bodies and Forest Department.</p>

**1. Monitoring Location :: At Madhuban Dam, DNH.**

Parameter	Unit	Jan-2020	Feb-2020	March-2020	April-2020
pH		7.57	7.86	7.72	7.65
BOD	mg/L	<1	<1	<1	<1
Total Coliform	MPN/100mL	27	39	33	-
DO	mg/L	6.6	6.7	6.4	6.1

**2. Monitoring Location :: at Naroli Bridge, DNH.**

Parameter	Unit	Jan-2020	Feb-2020	March-2020	April-2020
pH		8.04	8.06	7.78	7.68
BOD	mg/L	<1	<1	<1	<1
Total Coliform	MPN/100mL	39	41	41	-
DO	mg/L	6.4	6.6	6.2	5.9

**3. Monitoring Location :: at Lawachha Village, Gujarat.**

Parameter	Unit	Jan-2020	Feb-2020	March-2020	April-2020
pH		8.09	8.04	8.08	
BOD	mg/L	<1	<1	<1	
Total Coliform	MPN/100mL	94	70	63	
DO	mg/L	6.5	6.3	5.9	

**4. Monitoring Location :: Adjacent to Surat Beverages, Dadra, DNH.**

Parameter	Unit	Jan-2020	Feb-2020	March-2020	April-2020
pH		8.03	7.94	7.7	
BOD	mg/L	<1	<1	<1	
Total Coliform	MPN/100mL	70	84	79	
DO	mg/L	6.2	6.4	6.1	

**5. Monitoring Location :: at Vapi weir (over flow), Vapi**

Parameter	Unit	Jan-2020	Feb-2020	March-2020	April-2020
pH		8.07	7.75	7.93	7.86
BOD	mg/L	2	1.2	<1	<1
Total Coliform	MPN/100mL	540	540	540	-
DO	mg/L	5.9	6.5	6.2	5.9

**6. Monitoring Location :: at Namdha village, Gujarat.**

Parameter	Unit	Jan-2020	Feb-2020	March-2020	April-2020
pH		7.42	7.39	6.94	7.91
BOD	mg/L	2.8	2.4	2.8	<1
Total Coliform	MPN/100mL	>1600	>1600	>1600	-
DO	mg/L	4.5	4.2	4.3	5

**7. Monitoring Location :: at Zari Cause Way.**

Parameter	Unit	Jan-2020	Feb-2020	March-2020	April-2020
pH		7.53	7.38	7.08	7.26
BOD	mg/L	2.4	2.2	2.7	<1
Total Coliform	MPN/100mL	>1600	>1600	>1600	-
DO	mg/L	4.5	4.3	4.4	4.8

**8. Monitoring Location :: 100 meter D/S of confluence of treated effluent discharge from Khemani Distillries Pvt. Ltd. (discharge line was removed)**

Parameter	Unit	Jan-2020	Feb-2020	March-2020	April-2020
pH		8.03	7.37	7.08	
BOD	mg/L	2.3	1.9	2.7	
Total Coliform	MPN/100mL	430	350	>1600	
DO	mg/L	4.8	4.7	4.4	

**9. Monitoring Location :: at Moti Daman Jetty.**

Parameter	Unit	Jan-2020	Feb-2020	March-2020	April-2020
pH		8.01	7.72	7.10	7.5
BOD	mg/L	1.9	2.2	1.4	2.2
Total Coliform	MPN/100mL	350	220	170	-
DO	mg/L	5.8	5.5	5.4	5.9