Submission of Progress Report by UT of Dadra Nagar Haveli and Daman & Diu of the Month of July - 2020
(Hon'ble NGT in the matter of OA No. 673/2018 dated 06.12.2019)

Sl. No.	Activity to be monitored	Timeline	Compliance Status
1	Ensure 100 % treatment of sewage at least in-situ remediation.	15.07.2020 for District Panchayat, Daman And 31.12.2020 for DMC, Daman.	- Pre-monsoon activities of desilting work of all natural drains and sewage has been carried out. - Desilting work of 38 Natural Drains, 38 Sewage line and 30 culverts have been taken up. - 13 nallahs/ drains have been identified for Phyto remediation and Bioremediation measures. - NEERI has submitted a proposal on Phyto remediation and Bioremediation measures for insitu treatment of drains. The work initiated for in-situ treatment of the drain near Rajiv Gandhi Setu, Daman on pilot basis.
	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 and 4.5 KM vacuum sewage network line is ready. The said work have been proposed to be taken up under ENCORE (Enhancing Coastal and Ocean Resource Efficiency) project funded by World Bank and MoEF&CC. - The centralized STP and Sewage Networking planned earlier for Panchayat area has been dropped and decided to go for standalone modular STP for each Gram Panchayat. District Panchayat Daman is working out the details and preparation of DPR. - Setting up of 13.00 MLD Sewerage Treatment Plant, Silvassa is completed.

			Connection of households to the sewerage network is under progress. - There is no river in Diu District therefore it is not covered in the Polluted River Stretch Action Plan. - For Diu District, STP of 7 MLD is planned and DPR is approved by PWD and now under NIT approval for tendering.
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning.	31.03.2021	- Setting up of STP at Nani Daman may take more time. - DPR of the STP is ready and the approval from MoEF & CC and release of fund under ENCORE project is awaited. - Proposal is under process to get the Environmental Clearance for installation of said 16 MLD STP.
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 below the Secretary level.		Secretary, Urban Development for municipal areas and Secretary, Rural 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	Progress report may be furnished by the State/UTs to • Secretary, Ministry of Jal Shakti. • Member Secretary,		Report as per specified formats will be sent.

	CPCB		
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.		- Polluting drains contributing to river pollution is already identified in the Action Plan. - Desilting work in all natural drains and sewage drainages in the jurisdiction of District Panchayat areas and Municipal areas have been carried out. - There are 260 industries generating wastewater, 95 Nos. in Daman and 165 Nos. in DNH. All of them have installed effluent treatment plant for treatment of wastewater generated. Regular monitoring is carried out to ensure the ETP working and the treated wastewater meets the norms. - There are 59 Nos of Hotels in Daman, out of which 42 have installed Sewage Treatment Plant and 48 Nos of Hotels in DNH, out of which 20 Hotels have installed Sewage Treatment Plant. - Industries and Hotels are not permitted to discharge wastewater outside the premises and regular monitoring and inspection is being carried out. - For in-situ treatment of drains, proposal is received from NEERI for Phyto-remediation and Bioremediation of drains and river and the same is under process. The technology will be proposed at the drain near Rajiv Gandhi Setu, Daman is considered on pilot basis for in-situ treatment

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<td>ii. Status of STPs, I&D and sewerage networks. Details of existing infrastructure, Gap analysis, Proposed along with completion timeline.</td>
<td>31.03.2021</td>
<td>
- For Moti Daman area, STP of 4.21 MLD capacity is operational.

- Performance of STP :

<table>
<tr><th rowspan="2">Location</th><th rowspan="2">Technology</th><th colspan="4">Compliance status</th></tr>
<tr><th>pH</th><th>TSS</th><th>COD</th><th>BOD</th></tr>
<tr><td>Daman</td><td>SBR</td><td>7.6</td><td>7.1</td><td>36</td><td>7</td></tr>
</table>

- For Nani Daman area, STP of 16 MLD capacity is under process.

- The centralized STP and Sewage Networking Project planned earlier for Panchayat area is dropped. It is proposed to have modular level STP in each Gram Panchayat and preparation of DPR for Four Panchayat area in Daman are on.

- STP of 13 MLD capacity is located near Piparia Industrial area, Silvassa. STP is functional from 19/01/2019. A total of 3332 households have been connected to the sewerage scheme so far against 24,105 households. Currently, 1.2 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, irrigation etc.

- Sewerage networking is carried out under 2 Phase:
Phase-I : Sewerage Pipeline network of 31.6 km along with 08 pumping stations have been completed.

Phase-II : This phase is implemented in 02 parts.

Part – 01 : Project aims to provide chambers near households and / or to connect with sewerage network. Physical progress of the project is 78 % and the work is likely to be completed by 31/03/2021.

Part – 01 : Project aims to lay down the sewerage network for the remaining part of SMC area. Additional 04 pumping stations & 02 lifting stations are under construction.
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<td>Physical progress of the project is 55 % and the work is likely to be completed by 31/03/2021.

- Silvassa Municipal Council is advised to expedite the connections of household with sewer lines and STP.

- Performance of STP :

<table>
<tr><th rowspan="2">Location</th><th rowspan="2">Technology</th><th colspan="4">Compliance status</th></tr>
<tr><th>pH</th><th>TSS</th><th>COD</th><th>BOD</th></tr>
<tr><td>Dadra Nagar Haveli (DNH)</td><td>SBR</td><td>7.31</td><td>145</td><td>120</td><td>24</td></tr>
</table>

- There is no river in Diu District therefore it is not covered in the Polluted River Stretch Action Plan.

- For Diu District, STP of 7 MLD is approved under Diu Smart City. The DPR is approved by PWD and tendered, only one response is received and therefore, it is decided to go for re-tendering. Now NIT is being processed for re-tendering.</td>
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<td>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.</td>
<td>--</td>
<td>- There is no CETP installed in the UT of Daman and Dadra Nagar Haveli.

- All the wastewater generating industries have installed ETP. 95 Nos. in Daman and 165 Nos. in DNH. All of them have installed effluent treatment plant for treatment of wastewater generated.

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<tr><th>City/ District</th><th>Total no. of wastewater generating Industries</th><th>Total quantity of wastewater generation (KL/Day)</th><th>Total capacity of ETP (KL)</th></tr>
<tr><td>Daman</td><td>95</td><td>2020.74</td><td>3746.2</td></tr>
<tr><td>Dadra Nagar Haveli (DNH)</td><td>165</td><td>4515</td><td>7652</td></tr>
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- No industry is permitted to discharge industrial effluent outside the premises.</td>
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<td>iv. <u>Status of Solid Waste</u></td>
<td>31/12/2020</td>
<td><u>Existing Infrastructure –</u></td>
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	Management & Details of Processing Facilities. Details of existing infrastructure, Proposed along with completion timeline.		- 100% Door to Door garbage collection have been initiated in Municipal area and all the 14 Gram Panchayats of Daman district. - The garbage collected is transported to the Processing site of Daman Municipal Council at Dunetha with the resource of respective Gram Panchayat / District Panchayat. - The Processing of waste is done by the hired agency "M/s. C D Transport" at the Processing site of DMC jointly at a rate of Rs. 786 / MT as per the Solid Waste Management Rules, 2016. - 100 % processing is achieved by collection, segregation, composting and recycling in Daman district. - Composting plant of 100 MT/Day is installed and operational. - The recycled waste is then sent by the Waste Processing unit to the following Cement Factories to be used as Refused Derived Fuel (RDF) material:- 1. Ambuja cement in Kodinar, Gujarat. 2. Ultra Tech Cement in Dhar, Madhya Pradesh and Rajula, Gujarat. - At DNH, 100% Door-to-Door segregated waste is collected. 100% all the waste collected from Silvassa Municipal Area and District Panchayat area of DNH is processed at Solid Waste Management Plant at Kharadpada. - The facility has a capacity to process 150 MT/Day.
	v. Latest water quality of polluted river, its tributaries, drains with flow details and	--	- Pollution Control Committee, DNH and DD carry out water quality monitoring at 10 location in the River Damanganga and 02 discharge points located in Gujarat i.e. Outlet of CETP, Vapi and Outlet of ETP of

	ground water quality in the catchment of polluted river.		M/s GHCL, Bhilad, Gujarat. - During the period of monitoring from January – 2020 to June – 2020, the DO ranges between 4.2 to 6.9 mg/L, BOD ranges between <1 to 2.4 mg/L, - At 12 locations, all parameters fall well within prescribed limit of CPCB Standards of Inland Surface Water – Outdoor Bathing. Only at 04 location, Fecal coliform ranges between 540 to >1600 MPN/100 ml. - Proposal for Phyto-remediation and Bioremediation of drains and river has received from NEERI and the same is under process. The drain near Rajiv Gandhi Setu, Daman is considered on pilot basis for in-situ treatment.
	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.	On regular basis	- To prevent illegal dumping of waste, regular monitoring carried out by Municipal Council and Panchayat. - Dumping of waste is prohibited and the waste generated is transported to the processing site of Daman Municipal Council at Dunetha. - Waste from Hotel and Industries are managed and process by themselves. - Awareness programmes and community mobilisation is being carried out. - Generated bio-medical waste disposed through the CBMWTDF M/s En-clear Pvt. Ltd., Surat, Gujarat. - Plastic waste generated from residential and commercial area is being collected by Municipal council and Panchayat and disposed through the recycler. - Other bio-degradable waste is being processed through Composing Plant of capacity 100 MT/Day. - 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: 10th 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 & Family Welfare, D&NH and DD.
	vii. Ground water regulation.	31.09.2020	- 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. - Additional location for recharge of ground water is under identification 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). - All the upcoming construction and industrial projects shall be issued strict instruction for providing a suitable rainwater harvesting system. - Training and awareness programme under Jal Shakti Abhiyan will be organized.

	viii. Adopting good irrigation practices,	--	- Farm ponds have been created for ground water rejuvenation. Terrace cultivation in the undulating fields of DNH is likely follows. - Farm ponds have been maintained to check and reduce runoff. - Training programme for awareness on Jal Shakti Abhiyan and micro irrigation projects for Farmers was conducted at FTC, Kachigam on 15th October, 2019
	ix. Protection and management of Flood plain Zones (FPZ),		- 8 check dams in the catchment area of Damanganga River and 3 percolation ponds have been constructed. - All the checkdams constructed in the previous year are maintained.
	x. Rain water harvesting,	31.09.2020	- 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 during Jal Shakti Abhiyan. - 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. - In DNH 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 is provided. - Silvassa Municipal Council (SMC) have constructed Rooftop rain water harvesting systems in 15 schools & 45 Govt. buildings in SMC area to recharge ground water table.
	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,		- Tree plantations were carried out along the nallah and inlets in upstream area and along the river. - 36 Ha of Mangroves in Diu and 4lakh in Daman along Damanganga river near Moti Daman have been taken up. - 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.
	xiii. Setting up biodiversity parks on flood plains by removing encroachment.		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.