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**Submission of Monthly Progress Report for the month of September, 2023 in the NGT Matter
OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)
For the State/ UT of Andaman & Nicobar Islands**

Overall status of the State:

I. Total Population:

Port Blair City (Current estimated)– 1,48,062 (1,08,058 as per Census 2011),

Rural population – 2,08,904

- Total consumption of water at Port Blair City: 25 MLD (households, shipping industries, airports, agricultural lands, fisheries, parks & green area, government institutions, industrial clusters and swimming pools, etc.)
- Total consumption of water in rural area: 12.07 MLD (55 litre per person* 2,19,535)
- Quantity of sewage generated at Port Blair city [5MLD does not require any treatment as it is used for parks, gardens, etc.] = 15.25 MLD
- Quantity of sewage generated at rural area = 9.656MLD

II. Estimated Sewage Generation (MLD) in ANI: 15.25 MLD + 9.656 MLD = 24.906MLD

III. Details of Sewage Treatment Plant:

- Existing No. of STPs and Treatment Capacity (in MLD):
 1. 130 STPs of Hotel Industry (Total capacity) = 2.303MLD
 2. Sewage generated treated through pre-captive treatment through septic tanks = 6.420 MLD
- Gap in sewage treatment = 16.183 MLD
- **MLD of sewage being treated through Alternate technology:** On-site Septic Tanks catering to 100% Households for dispersion.
 1. Work order for 03 decentralized STPs of capacity 9.76 MLD has been awarded and work is under process and will be completed by 31st August, 2023.
 2. DPR for establishing STPs for treating 18.24 MLD sewage considering the future operation of international Airport and fast development of tourism is under preparation and shall be executed under Smart City Mission and other Schemes/Plan Heads. The work is expected to be completed by 2025-26.

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*PBMC is in the process of analyzing the BOD, COD and pH value of such discharged sewage water and is taking steps to treat the same and meet the said gap.

S.No	Categorization of Units-Hotels			Total
	Red	Orange	Green	
Total No.	1	141	360	502
Units Required for installation of STP (A)	1	141	-	142
No. of Units installed STP (B)	1	130	6	137
Non-Complying(A)-(B)	0	11-(02*+01*)	-	08
Action taken by ANPCC against Non-Complying Units		Issued Closure Notices=08		

Note:

*02 units have demolished rooms and operating with a maximum of 20 rooms.

*01 unit found closed during inspections

3. Total no. of industrial units -hotels (Red, Orange and Green category) =502
4. Total no. of Red & Orange category units: 1 Red &139 Orange = 140
5. Total no. of Green category units: 362 (not required to install STP as per revised CPCB classification of industries 2016 and A&N Gazette Notification no. 234 dated 22.09.2017)
6. No. of Units Permanently Closed = 01
7. No. of Units Required for installation of STP = 139 (Since 02 units demolished the number of rooms to 20 now belong to green category, and 01 hotel is found to be permanently closed)
8. No. of Units installed STP = 137(131 STPs of Red & Orange and 6 STPs of Green category)
9. No. of Operational STPs =137(131 STPs of Red & Orange and 6 STPs of Green category)
10. No. of Complying STPs =137
11. No. of Non-complying STPs = 08 Nos.

Closure Notices issued to 08 non-complying units.

Details of each existing STP in the Hotel Industry is placed at Annexure-I

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Details of existing STPs in the State

Sl. No.	Location	Existing Capacity	Capacity being utilized	Operational status	Compliance status
1.	01 Faecal Sludge Treatment Plant (FSTP) in Port Blair City	42 KLD	100%	Operational	- Completed - All household has individual on-site pre-captive Treatment Plant established as septic tanks. - The Faecal Sludge from houses is cleared on call basis. As on date 42 KLD FSTP is established and is operational based on the assessment and DPR submitted by National Institute of Urban Affairs, New Delhi.

Open Defecation Free status

The Port Blair city of Andaman and Nicobar Islands has been declared and certified as Open Defecation Free ++ (ODF ++). In this connection, a copy of the ODF ++ certified by the IQVIA, formerly Quintiles and IMS Health, Inc

The RD&P department is creating wide sensitization and awareness generation by IEC awareness video for ODF + villages.

Andaman & Nicobar Islands has been declared as ‘1stSwachhSujal Pradesh’ in the country on 17.09.2022, for achieving 100% compliance in implementation of ‘HarGhar Jal’ & ‘ODF- a landmark achievement.

Details of under construction STPs in the State

No.	Location	Capacity of the STP MLD	Physical progress in %	Status of I&D or House sewer connections	Incremental progress	Completion timeline
1.	03 decentralized STPs in Port Blair City at MazarPahad catering Port Blair Municipal ward No.2,3,4&5	1.81 2.40 5.55	5 %	Interception & Diversion is under progress (approvals for drawings & other structural details)	5 %	2 years (31 st Aug, 23) & 5 year O&M(2028)

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Details of proposed STPs in the State

No.	Location	Capacity of the FSTP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Incremental progress	Likely Date of Completion
1.	Rest of Municipal wards (Other than Ward No.2,3,4&5)	18	At DPR Stage	10%	• 2022 (DPR Submission & Tendering) • 2025 (Expected completion)
2.	Beodnabad	0.005	At DPR Stage		-
3.	Shyamnagar	0.005	At DPR Stage		-
4.	Neil Kendra	0.005	At DPR Stage		-
5.	Netaji Nagar	0.005	At DPR Stage		-
6.	Shore Point	0.010	At DPR Stage		-
7.	Campbell Bay	0.005	At DPR Stage		-
8.	Rangat	0.010	At DPR Stage		-
9.	Long Island	0.005	At DPR Stage		-
10.	Rampur	0.005	At DPR Stage		-
11.	Madhupur	0.010	At DPR Stage		-
Total		18.065			

IV. Details of Industrial Pollution:

- No. of industries in the State: 930
Stone Crusher Units=102
HCF=259
Hotels=502
ASC=25 (4 nos. permanently closed)
SPI=2 (1 no. permanently closed)
Others=40
- Quantity of effluent generated from the industries in MLD: Not yet estimated
- Number of industrial units connected to CETP: No CETP
- No. of water polluting industries in the State:545
- Quantity of Hazardous Sludge generated from the Industries in TPD: N/A
- No. of Water polluting industries excluding Hotel industry (details of Hotels is already included in STP detail at Sl. No. III) = 45
- Total no. of units requiring ETP =40 (45-5)
[05 Permanently closed]
- Total no. of units operating with ETP =33 [03 ASC sharing one ETP; 02 cold Storage units share a common ETP]
- Total no. of units under the process of Installation of ETP = 02 Nos.

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- Total no. of units not installed ETP = 07 Nos.
- Number of non-complying ETPs = Closure notice issued to 07 units
- Number and total capacity of CETPs = No CETP established in A&NI.
(details of existing/ under construction / proposed)

ANPCC has been regularly conducting inspections to identify the compliance status of all units.

V. **Solid Waste Management:**

- Total number of Local Bodies and their Population:
 1. 1 ULB namely Port Blair Municipal Council with population of 1,08,058 (Census 2011) and current estimated to 1,48,062 in Port Blair City.
 2. 70 Gram Panchayats with population of 2,19,535 in rural area.
- Current Solid Waste Generation:

Port Blair city = 60.00TPD

Rural area = 17.50 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), biometanation, MRF etc:
 1. 24 Solid Liquid Resource Management (SLRM) Centres, 02 electric compost plants and a 3-R centre situated across all 24 municipal wards and waste is further segregated for bailing and processing for its transportation to mainland for recycling. 05 decentralised composting units and 01 Bio-methanation plant of Dr. B.R. Ambedkar Institute of Technology of 0.5 MTPD for wet waste management at Old Pahargaon. Further, 10 schools and 01 college have also made captive composting units. 21 households in Bathubasti.
 2. 26 SWM Cluster equipped with Bailing Machine and Shredding machine mapped to 70 GPs for processing of dry waste and all cluster having compost pits for wet waste processing by Vermi-composting method (among which 25 SWM Clusters are functional and 01 SWM Cluster is under construction with 55% of work is completed).

Organic waste processing units/ Material Recovery Facilities:

a). Centralized Facilities:

S. No.	Name/ Location/ Technology	Capacity (TPD)
1	Gandhi Park Vermi Compost Facility	0.70
2	Brookshabad Compost Facility	0.62
3	Anarkali Compost Facility	0.082

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4	Junglighat Electric Composting Unit	0.25
5	Mohanpura Electric Composting unit	0.25
	Total	1.902

b). Decentralized ward wise facilities:

S. No	Ward number	No of Pit/Bins	Capacity (Per day) in TPD
1	20	1	0.0084
2	6	1	0.0084
3	7	4	0.032
4	12, 13	1	0.0084
5	9	1	0.0085
	Total		0.0657

c). Organic waste management through animal feed:

S. No.	Location	No: of pigs	Quantity of waste processed
1	LalMitti	Approximately 80 adult pigs	1.50 TPD
2	Manglutan	66 adult pigs	0.33 TPD
3	Brookshabad	500-700 adult pigs	2.50 TPD
	Total		4.33

- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction):

Ward Number	Name of plant & address	Plant Type	Sub Category	Design Capacity
15	Dairy Farm C&D Storage Centre	C & D Waste Processing Facility	Storage & Reuse	5
3	C & D Collection Points, Anarkali	C & D Waste Processing Facility	Storage, Segregation & Reuse (without machinery)	5
10	PBMC C&D Centre, Near Appollo Clinic, VIP Road, Port Blair, South Andaman, A& N Islands	C & D Waste Processing Facility	Storage, Segregation & Reuse (without machinery)	5
17	C & D Waste collection Point at Dollygunj	C & D Waste Processing Facility	Storage, Segregation & Reuse (without machinery)	5
	Total			20

Minimal quantities of C&D waste are being generated in rural areas and these are used for maintenance of Path holes.

- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source:** 24 municipal wards and 70 Gram Panchayats having 100% door to door collection with segregation at source.

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- **Details of SW treatment facilities proposed and under construction (no., capacity, and technology):**

Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%): Situational Analysis and City Action Plan for Port Blair For Support for Management of Organic Waste under Project MOWI of GIZ-India is being undertaken.

Port Blair Municipal Council Solid Waste (Handling and Management) Bye Laws, 2017 to regulate waste management in Port Blair city is notified in the Gazette of A&N Island. The PBMC is empowered to take all necessary steps to ensure proper management and treatment of waste and impose penalties and fines upon defaulting units.

The Andaman & Nicobar Islands Rural Areas Solid Waste Handling & Management Bye Laws, 2019 is notified by the Directorate of RD, PRI and ULB and have provisions to collect spot fines and charges from violators under the Bye Laws.

- **No. of Waste dealer/vendors authorized for collection, segregation, pre-processing and recycling of dry/recyclable waste within their jurisdiction**

Port Blair Municipal Council (PBMC) has authorized 12 nos. of waste dealer and issued ID cards for collection, segregation, pre-processing and recycling of dry/recyclable waste within their jurisdiction.

The Directorate of RD, PRI and ULB (RD&P) has authorized 02 No. of vendor for collection, storage and transportation of Solid Waste.

Authorized Recyclers.

1. M/s CM Scrap Traders mapped with SWM Clusters in South Andaman District.
2. M/s Green Worms Solutions LLP mapped with SWM Clusters in North & Middle Andaman District.

- **No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills:** All dumpsites have been closed.
- **No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers:** Nil, however PBMC has initiated legacy waste remediation of the sanitary landfill situated in Brookshabad. The Old Common Regional Sanitary Landfill is covered with green capping and PBMC has finalized tender and awarding of work is in process. Details of Bioremediation of dumping ground/site at Brookshabad:

Particulars	Details
Total Quantity of existing Legacy Waste in Tons	1,00,000 Tons Approx.
Land Occupied by the Dumpsite in Acres	3 Acre
Proposed Method of Remediation	Windrow Aerobic Method by using Manual and Mechanical Segregation

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	Method
Land to be Recovered in Acres (Extent of Land from which waste is completely Removed)	3 Acre
End Use of Remediated Dumpsite Area	Reforestation
Estimate Cost for Remediation	8.9 Crore
Most likely Date for complete Remediation (not Beyond 31.03.2023 for ULB's <10Lakhs and 31.03.2024 for ULB's >10 Lakhs)	As per Agreement- 31.03.2023

Bioremediation of legacy waste at dump yard for 1Lakhs MT the work is in under process, 94% of physical progress is achieved.

- **No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:** No drains falling into rivers. There are 6 rivers in the island in which 5 rivers are exclusively flowing through forest areas. 1 river flows partially through forests and partially through habitated areas. The water quality was analysed and it was found well within the permissible limits.

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
1 ULB	60	55	24 SLRM centers, 02 electric compost plants and a 3-R centre	100%	-
70 GPs under Directorate of RD&P	17.5 TPD	17.5 TPD	26 SWM Clusters available	26 x 0.5 TPD	AAES accorded for proposed SWM centre at Nicobar & Nancowry Block

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VI. Bio-medical Waste Management:

- Total Bio-medical generation: 734.79 Kg/ day (As per Annual Report 2022-23)
- No. of Hospitals and Health Care Facilities: 272 Nos (As per Annual Report 2022-23)
- **Status of Treatment Facility/ CBMWTF: 07**Incinerators installed in the isolated pockets of the UT at different health institutions are used for scientific treatment and disposal of Biomedical Waste.

Sl.No.	District	Name of the HCFs	Capacity
1.	South Andaman	GB Pant Hospital	100 kg/hour
		CHC Bambooflat	50 kg/hour
		ICMR- Regional Medical Centre, Dollygunj	20 Kg/day
2.	Nicobar	CHC Nancowry	50 kg/hour
3.	North and Middle Andaman	Dr. R.P Hospital Mayabunder	50 kg/hour
		CHC Diglipur	50 kg/hour
		CHC Rangat	50 kg/hour

- **70 Nos. of Autoclaves** are operational in different HCFs of ANI to treat BMW.
- The Directorate of Health Services has informed vide letter No. BMWM/DHS/BMWM Action Plan/2019/ Part-V/262 dated 08-09-2021 that previous tender for procurement of 5 BMW incinerators at different HCFs was cancelled due to large variation in price, hence the approval for retendering is taken for the following incinerators namely:

Sl. No.	District	Name of the HCFs	Capacity
1.	South Andaman	PHC Garacharma	100 kg/hour
		PHC Hutbay	50 kg/hour
		PHC Swaraj Dweep (Havelock)	50 kg/hour
2.	Nicobar	BJR Hospital Car Nicobar	50 kg/hour
		PHC CampbellBay	50 kg/hour

- For installation of CBWTF, Directorate of Health Services DHS vide letter No. BMWM/DHS/BMWM Action Plan/2019/ Part-V/262 dated 08-09-2021 that has informed that an area of 1 hectares have been set apart at AttamPahad, Garacharma for CBWTF.
- ANPCC has submitted annual report on implementation of Biomedical Waste Management Rules for the year 2022-23.

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VII. Hazardous Waste Management:

As per the Annual Report on implementation of Hazardous waste Management Rules 2016 for the year 2021-22:

- Total Hazardous Waste generation: 116.067MT
- No. of Industries generating Hazardous waste: 29
- Treatment Capacity of all TSDFs: No TSDF (ANI falls under states/UTs generating less than 500 Metric tons per annum of land fillable hazardous waste)
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated: 33.673MT transported to Tamil Nadu and Ludhiana for recycling.
- Details of on-going or proposed TSDF: Not Required

VIII. Plastic Waste Management:

- Total Plastic Waste generation: 438MT of plastic waste from 01 Municipal Council and 250MT of plastic waste from Gram Panchayats.
- Treatment/ Measures adopted for reduction or management of plastic waste: 24 SLRM centers catering to 24 municipal wards. Further 3-R principle is used. The waste is further segregated for bailing and processing for its transportation to mainland for recycling. The waste in rural areas is managed in 24 clusters for all 70 Gram panchayats.

A scheme has been made effective wherein it is mandatory to use 8-10% of the plastic waste is to be used for construction of roads by the implementing agencies/departments such as RD&P, PBMC and APWD. Till date, **148.6075 MT** of shredded plastic waste was utilized for construction of **162.1487 Km** Road.

In rural area 59 establishments were inspected and amount of 29500 penalty levied for violation of PWMR in the month of September 2023.

In Port Blair city by conducting enforcement drive collected Rs.11,000 as penalty for breaching PWMR in the month of September 2023.

1st meeting of Special Task Force for elimination of Single Use Plastic convened on 27.04.21 under the Chairmanship of the Chief Secretary, A&N Administration. Consequently, the meeting of core committee members convened on 12.08.21. The draft action plan for elimination of Single Use Plastic is already prepared and submitted for finalization of the plan.

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The essay writing competition for school students is already conducted in all three districts. The State level evaluation of essay writing competition is completed and the list of winners at state level is published in Daily Telegrams newspaper. The entries of the winners at state level are shared to MoEF&CC for its evaluation at national level.

- IX. **Details of Alternate Treatment Technology being adopted by the State/UT:** Establishing Glass crushing unit, coconut processing unit and mechanical equipped MRF is proposed through GIZ-India project under combating marine littering program.
- X. **Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment:** No drains falling into rivers. There are 6 rivers in the island in which 5 rivers are exclusively flowing through forest areas. 1 river flows partially through forests and partially through inhabited areas. The water quality was analyzed and it was found well within the permissible limits.
- XI. **Details of Nodal Officer appointed by Chief Secretary in the State/UT:** Under Process
- XII. **Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:** 01 State Level Advisory Committee (SLAC) meetings conducted under the Chairmanship of the Chief Secretary.
- XIII. **Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river:** There are 6 rivers in the island in which 5 rivers are exclusively flowing through forest areas. 1 river flows partially through forests and partially through inhabited areas. The water quality was analyzed and it was found well within the permissible limits.
- XIV. **Ground water regulation:**

The Central Ground Water Board, Eastern Region, Kolkata conducted a meeting under the Chairmanship of Deputy Commissioner, South Andaman on 07-10-2021 at 11:00 AM in the Conference Hall of DC office to discuss Ground water Extraction Rules, Regulations. Further the procedure for implementation of guidelines to regulate and control groundwater extraction in India as per notification of Ministry of Jal Shakti, notified vide S.O. 3289(E), dt. 24th September, 2020 was discussed.

While issuing the Consent to Establish or Operate, ANPCC ensures that the unit/firms has obtained the NOC from the Central Ground Water Authority as a pre-requisite, if the firm uses ground water.

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XV. Good irrigation practices being adopted by the State: Large Scale irrigation is not practices in Andaman & Nicobar Islands due to receipt of rainfall throughout the year.

XVI. Rain Water Harvesting: Being implemented as a mandatory part while applying for Building Plan approvals to PBMC.

The foundation stone for construction of additional 10 MLD water treatment plant and two Clear water Reservoirs at Garacharma, Port Blair. A new project for laying of submarine pipeline between Rutland and Pongibaluhas already been commissioned and 6.6 MLD water is tapped to augment the water requirement of the city.

In case of Rural Areas, 160 No of building identified for Rain water harvesting in the year 2022-23 where in 33 building rain water harvesting is installed and completed.

XVII. Demarcation of Floodplain and removal of illegal encroachments: No floodplains existing in A&NI.

XVIII. Maintaining minimum e-flow of river: NA

XIX. Plantation activities along the rivers: There are 6 rivers in the island in which 5 rivers are exclusively flowing through forest areas. 1 river flows partially through forests and partially through inhabited areas (rural areas).

XX. Development of Biodiversity Park: The A&N Islands is rich in natural forest wealth and biodiversity. Nearly 85% of the area of the island is covered under natural vegetation. For the in-situ conservation of biodiversity of the islands, 6 National Parks and 96 WLS have been constituted. For ex-situ conservation and education and awareness, 1 Biological Park has been created. Further, for education and awareness for the urban mass and tourists, one Nature Park-cum-Interpretation Center has been opened in the city recently.

Further PBMC vide letter No. 41/EE-III/SWM/MC/2018-19/89 dated 16-08-2021 has informed that a committee has been constituted for Biodiversity management as per the Hon'ble NGT direction and formulated & submitted the People's Biodiversity Register (PBR) for the Port Blair City on 24-06-2021. PBMC have developed 25 Parks & gardens, 32.7 Hectares approx.

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XXI. Reuse of Treated Water:

- The treated water from 125 Nos. STPs installed in various industries and 42 KLD fecal Sludge Treatment plant are used for Gardening & Toilets flushing purposes.
- Soak pits works under progress in rural areas among which 38 Nos. Individual Soak Pits works completed and 41 nos. communities soak pit works completed.

XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards: No such river adopted in the islands.

Status of Preparation of Action Plan by the 13 Coastal States: The River Rejuvenation Committee constituted vide Order no. 3374 dated 29.10.18 has been renamed and reconstituted as 'River/Coastal Rejuvenation Committee' vide Order no. 442 dated 16.02.21 by incorporating subject officers/experts from other concerned departments of the A&N Administration. The 1st meeting of the River/Coastal Rejuvenation Committee was held on 25.03.21. The Deputy Commissioner (North & Middle Andaman District) constituted a district level committee vide Order no. 39 dated 20.04.21 and held its meeting on 21.04.21. The Deputy Commissioner (Nicobar District) constituted a district level committee vide Order no. 516 dated 25.03.21. The Deputy Commissioner (South Andaman District) constituted a district level committee vide Order no. 267 dated 06-08-21. The 2nd meeting of the River/Coastal Rejuvenation Committee was held on 29-07-21. Proposed action plan for South Andaman(SA) District has been submitted by DC SA on 25-08-2021. Proposed action plan for North & Middle Andaman(NMA) district has been submitted by DC(NMA) on 23-06-2022. Proposed action plan for Nicobar District has been submitted by DC(Nicobar) on 05-07-2022. Compilation of the River/Coastal Rejuvenation Plan is under process. Third meeting of River Rejuvenation/ Coastal Rejuvenation committee was held on 06.09.2023 at 4.00Pm in which all the three districts submitted the Coastal action plan to the committee and the coastal action plan for South Andaman District, North and Middle Andaman District and Nicobar District were finalized by the committee. The finalized coastal action plan will be sent to CMC/CPCB shortly.

XXIII. Regulation of Mining Activities in the State/UT: The Deputy Commissioner (South Andaman District), The Deputy Commissioner (North & Middle Andaman District) and The Deputy Commissioner (Nicobar District) regulate mining activities in the UT of ANI. The sand mining in coastal areas (sea sand) is being regulated by Department of Environment & Forest, A&N Islands. There is a separate authority for management of coastal areas of the island namely

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Andaman & Nicobar Coastal Zone Management Authority (ANCZMA) which also looks into matters related with sand mining in the coastal areas of the islands.

XXIV.Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring: Since 5 out of the 6 rivers in the islands flows exclusively through forests, there is no pollution reported. Further, the 6th river flows partially through forest and habituated areas (rural). No polluting industry or units exists there.

Member Secretary, ANPCC