



*Proceedings report of*  
**One Day Annual Conference on  
Karaikal District Environment Plan**  
*held on 01.07.2022*



**Government of Puducherry**  
**Department of Science, Technology & Environment**  
**Puducherry Pollution Control Committee**

*Proceedings report of*

**One Day Annual Conference on  
Karaikal District Environment Plan**

*Date of the event:*

01.07.2022

*Venue:*

Le Symphony Hall,  
AVS Imperiaa, Karaikal, Puducherry



Government of Puducherry  
Department of Science, Technology and Environment  
Puducherry Pollution Control Committee

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## Conference Overview

An Annual Conference on the District Environment Plan for Karaikal District was organized on 01.07.2022 from 10.00 AM to 05.30 PM at the Conference Hall in AVS Imperiaa Hotel, Karaikal, by the Karaikal District Administration in collaboration with Department of Science, Technology and Environment and Puducherry Pollution Control Committee.

Earlier, during October 2021, Karaikal District Administration had prepared the District Environment Plan (DEP) in compliance with the order of the Hon'ble National Green Tribunal, dated 26.09.2019 in O.A. No. 360/2018 titled "Srinath Sharma vs. Union of India & Ors". The DEP envisages to bring the scope of environmental management to local governments and administration, so as to set their own goals and targets to achieve desired environmental quality within the district. The DEP covers action plan for 7 thematic areas viz. Solid Waste Management, Water Quality Management, Domestic Sewage Management, Industrial Wastewater Management, Air Quality Management, Mining Activity Management and Noise Pollution Management. In addition to this the action plan also covers strategies for coastal zone management, increasing green cover and water conservation and rainwater harvesting.

In order to harness the active participation of all the stakeholder in implementation of the District Environment Plan an Annual Conference was organized in compliance to the order dated 08.02.2022 of Hon'ble National Green Tribunal in the matter of O.A. No. 360 of 2018 (PB) filed by Shree Nath Sharma Vs. Union of India & Ors. Vide said Order Hon'ble Tribunal passed following directions:

*"We are of the view that recommendations made by the Monitoring/Oversight Committees headed by Hon 'ble former Judges and the representative of deficiencies in respect of other DEPs which needs to be acted upon by all the States/UTs subject to any grievance being raised before the Tribunal, in case of any difficulty. Data needs to be updated as per ground situation. In respect of Districts/States plans have not yet been prepared, the same needs to be done forthwith so that based on such plans, National plan can be prepared which may go a long way in protection and management of environment for achieving goals of Sustainable Development. The plans so prepared need to be periodically revised and updated preferably as on 31st March for every year and executed in respect of all concerned thematic areas. Compliance needs to be monitored*

*at District Level, State Level and National Level in the light of gaps identified To give impetus to compliance, in addition of having regular monthly meetings of the District Level Committees, it may be necessary to hold an annual conference to be presided over by the District Magistrates with the involvement of Educational Institutions, Welfare Associations, Local Bodies including Panchayats, Eco-clubs, other concerned Departments and activist identified by the District Administration and nominees of District Legal Services Authorities. The State PCBs/Environment Departments needs to coordinate the same. MoEF &CC/CPCB also needs to oversee and guide such exercise through their respective Regional Offices. Targets achieved and set need to be published and best practices experimented and adopted need to be mentioned Apart from the thematic areas already specified any other thematic area relating to the goals of environmentally sustainable development can also be added. Contribution of any individual I organization can be appropriately acknowledged. To begin with, such annual conferences may be held at least in one District in every State, to be identified by the Environment Department of States/UTs, with intimation to the CPCB before 30.06.2022. CPCB may compile relevant data of further progress in the matter in light of above observations and file a consolidated progress report as on 31.08.2022 by 15.09.2022"*

In compliance to the above said order, one day Annual Conference was organized by the Karaikal District Administration in collaboration with Department of Science, Technology and Environment and Puducherry Pollution Control Committee on 1<sup>st</sup> July 2022 from 10.00 AM to 05.00 PM at Karaikal. The stakeholders viz representatives of Educational Institutions, Welfare Associations, Local Bodies, Eco-clubs, other concerned Departments, Activists identified by the District Administration and nominees of District Legal Services Authorities were invited for the conference. Also CPCB was requested to nominate their representative to participate and guide in conducting the conference.

The Conference was presided by Thiru. L. Mohamed Mansoor, District Collector of Karaikal. Tmt. Smitha. R, IAS, Secretary to Government - Science, Technology and Environment delivered the Key Note Address. Thiru. S. Karthikeyan, Scientist– D, Central Pollution Control Board, Regional Office, Chennai, delivered the special address.

Officials from various government departments including PWD, LAD, local bodies, Police Department (Traffic), Health Department, Forest Department, Agriculture Department, DRDM, T&CP Department, Karaikal Planning Authority and representatives from District Legal Services Authorities, Educational Institutions, NGOs / Civil Societies and industries participated in the Conference.

The officials from DSTE and PPCC made presentations on each each thematic areas covered under the DEP during the technical sessions. Hand-in-Hand, an NGO handling Solid Waste Management in Karaikal Municipality made a presentation on maximizing recycling and achieving zero waste. Moderated discussion was held at the end of the technical session to aid for identifying better implementation pathways and addressing the challenges in the implementation of DEP.

## Inaugural Session

### Welcome Address:

Dr. R. Sagaya Alfred, Senior Scientific Officer, Department of Science, Technology and Environment, Puducherry, welcomed the Chief Guests, the participants and the Media and gave a brief introduction about the purpose of the one day conference.



### Special Address:

Shri. S. Karthikeyan, Scientist- C, Central Pollution Control Board, Regional Office, Chennai discussed the various steps taken by the Hon'ble National Green Tribunal in protecting the Environment and the importance of the conference. He appreciated the effort taken by the Karaikal District Administration, DSTE, PPCC and all other stakeholders in preparing the elaborate District Environmental Plan (DEP) for Puducherry and Karaikal regions. He pointed out that Karaikal was the first region at the national level to conduct such conference.

### Inaugural Address:

Thiru. L. Mohamed Mansoor, District Collector, Karaikal presided over the Conference. He said that environment pollution and natural resource depletion is becoming an issue of great concern and Karaikal District administration is committed in fulfilling its responsibility towards environment protection. The District Environment Plan has been prepared holistically on all aspects related to Environment Protection and Conservation which will be periodically reviewed and revised by the District Administration based on new developments. He requested the active participation of all the stakeholders in implementing the strategic actions identified in the DEP within the



timeline. He also expressed his concern about plastic pollution and said that the use of Single Use Plastic in any form should be strictly avoided in the district. He said that for the success of any environment protection action plan joint efforts of all stakeholders viz. government, private players, civil societies and citizens is required. The Annual Conference is organized with the aim of bringing all these stakeholders together for the purpose of framing and implementing the District Environment Plan.



#### Key Note Address:

Tmt. Smitha. R, IAS, Secretary to Government (Science, Technology and Environment) – cum – Chairperson (PPCC) informed that Karaikal District Environmental Plan has been prepared in compliance with the order of the Hon'ble National Green Tribunal and with an objective mainstreaming

environmental issues into the developmental planning at District level. The Karaikal District Administration with the help of Puducherry Pollution Control Committee has conducted several rounds of consultation with the line departments and prepared this Plan. The DEP for Karaikal comprises the current environmental status of the district and the gaps and action plans pertaining to Karaikal on seven thematic areas viz., solid waste management, water quality management, domestic sewage management, industrial waste management, air quality management, mining activity management and noise pollution management. It was the time that all the stakeholders come together and implement the ideas framed in the DEP in terms of policies or activities, which requires a unified commitment and coordinated efforts of all the stakeholders. It is to be highlighted that environmental actions doesn't stop with the government, but has a larger stake with the NGOs, Civil Societies, the volunteers and more importantly the general public. With this objective, one-day conference on DEP for Karaikal District was convened in compliance with the order of the Hon'ble National Green Tribunal.

She told that this conference would be a platform to build our capacity on the environmental aspects of the district of Karaikal and in strategizing such mechanisms and actions plans and in implementing them in real time.



## Technical Session

Session – 1: Overview of District Environment Plan: Thiru. K. Kalamegam, Environmental Engineer, DSTE, Puducherry.

The Hon’ble National Green Tribunal order dated 26.09.2019 in O.A. No. 360/2018 titled “Srinath Sharma vs. Union of India & Ors. directed

- All the District Collectors to prepare the District Environment Plan containing data on each environmental issue covering each city, town and village.
- All Environment Secretaries to prepare the State Environment Plan
- MoEFCC to prepare National Environment Plan
- CPCB to prepare a common framework for preparation of DEPs so that they can be easily scaled up into State and National Environment Plan.



With reference to the above order, CPCB prepared the common data sheets and templates and circulated to all districts. Accordingly, District Environment Plan for Karaikal District was prepared and published in October 2021. Thematic Areas for DEP are Waste Management Plan, Water Quality Management Plan, Domestic Sewage Management Plan, Domestic Sewage Management Plan, Air Quality Management Plan, Mining Activity Management plan and Noise Pollution Management Plan. The components of DEP are District Profile, Current status of the thematic areas, Gap between current status and desired levels, Proposal of attending the gap with time lines and designated officer for ensuring compliance to provisions under statute. The DEP is intended as a quick reference to the personnel of District Administration to:

- Identify key environmental issues within the district boundary
- Prioritize the required projects
- Strategize and plan for implementation and
- Outline tentative timelines for completion of projects.
- This report will also help regulators to monitor compliance and is structured to allow updates and monitoring at State level.

In order to harness the active participation of all the stakeholder in implementation of the District Environment Plan an Annual Conference is to be organised in compliance to the order dated 08.02.2022 of Hon’ble National Green Tribunal in O.A. No. 360/2018.

Session – 2: Solid Waste Management in Karaikal District: Current status, Gaps and Action plan (Municipal Solid Waste, Plastic Waste and C&C Waste, Bio-medical Waste)  
Dr. N. Ramesh, Senior Environmental Engineer, DSTE, Puducherry

The current status, gaps and action plan on Waste Management was deliberated in the session.



### **Solid Waste Management**

The quantum of Solid Waste Generated, processed, materials recovered and present gaps with respect to each municipality and commune panchayat were discussed. The effects of the solid waste viz. Groundwater contamination by percolation, air pollution and various diseases caused out of the solid waste. The action plan on solid waste includes 100% Door to door collection, Ensure source segregation, Adopt Scheduled collection, Biodegradable-> Composting, Non Bio-degradable-> RRP, RDF , Domestic HW-> Authorized Recycler and Bio-mining of legacy waste.

### **Plastic Waste Management**

The quantum of Plastic Waste Generated in municipality and in each commune panchayat were discussed. The effects of the plastic waste viz. Chocking the drains, effects on marine life, air pollution caused during burning and various diseases caused out of the plastic waste were discussed. The production, selling and use of Single Use Plastic (SUP) was banned in U.T. of Puducherry as per Govt. Order dt. 02.08.2019 and 30.06.2022. The action plan on plastic waste includes Facilitating setting up of Recycled plastic units, Implementing EPR of Brand owner (buyback system or collection center), Channelizing to co-processing, Ensuring supply chain for attention of SUP, Strict enforcement of SUP ban and Continuous Awareness program about ill effects of usage of SUP.

### **Bio-medical Waste Management**

Details of type of bio-medical waste, authorization obtained by Health Care Facility (HCF), Type of Hospital, Quantity kg/day and Gap in treatment of the Bio-medical waste discussed. The action plan on plastic waste includes Ensuring Obtaining Authorization by HCF, Continuous Education Programme on Proper Segregation of BMW, Ensuring Collection

of BMW within 48 hours by Common Bio-medical Waste Treatment and Disposal Facility (CBWTF), Disinfection of Liquid Waste and Avoiding mixing with MSW.

### **Construction & Demolition (C&D) Waste Management**

Current Status and Identification of gaps of C&D Waste were discussed. Action Arrangement for separate collection of C&D waste to CD waste deposition center. C&D waste generation is very low and it is mostly sold by the generators for land filling and they do not reach the Municipal Solid Waste. However, Karaikal Municipality has identified and earmarked separate land for setting up of common C&D waste deposition center.

Perspective of stakeholder departments viz. Commissioner, Karaikal Municipality, Commissioner, Kottucherry Commune Panchayat, Commissioner, Neravy Commune Panchayat, Commissioner, Nedungadu Commune Panchayat, Commissioner, T.R. Pattinam Commune Panchayat, Commissioner, Thirunallar Commune Panchayat and Commissioner, Dy. Director, Health Department as obtained during the session on the action points.

Session – 3: Hazardous Waste and E-Waste Management in Karaikal District: S. Devaanadan, Assistant Environmental Engineer, PPCC, Puducherry

### **Hazardous Waste Management**

Provision in the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, Status of hazardous and other waste generating industries in Karaikal and Inventory of Hazardous waste were discussed. The action plan on Hazardous and Other Wastes includes Regulation of Industries and facilities generating Hazardous waste, Municipality and all Commune Panchayat has to obtain authorisation for setting up of domestic hazardous waste deposition centre, Records has to be maintained in Form-3, Annual returns has to be submitted in Form - 4 of HOWM Rules,2016 to PPCC, Establishment of linkage with TSDF for scientific disposal of domestic hazardous waste, Training of workers involved in handling/ recycling/ disposal of Hazardous Wastes.



## **E-Waste Management**

Provision in the E-waste management Rules, 2016, Responsibility of Consumer or Bulk consumer, Status of E-waste management Karaikal District were discussed. The action plan on E-Waste includes Inventorization of E-waste, Collection centres need to be established through Local bodies in association with Producer through their PRO's or Recyclers or dismantlers, Local bodies are required to hand over the e-waste collected to the authorised recycler or dismantler, Refurbishers has to obtain an one-time authorisation from PPCC, Identification of Producer who have not obtained EPR through market survey, Checking and regulation of informal trading, dismantling and recycling of e-waste, Integration of informal sector, IEC plan may be firmed up and executed for educating public at large about the system of collection and an incentivising structure and Awareness campaigns and special workshop need to be carried out through Producers/ PROs/ NGOs.

Session – 4: Solid Waste Management- Recycle for Development by R.RAMESH, Project Manager, Hand in Hand, Karaikal:

The ill effects of plastic and other waste were discussed. Initiatives at an Individual level by Avoid Carry bags, Tree Plantation, Initiatives at an Institution level by Following best environmental practices (Plastics reduction, Waste segregation, Reduce & Reuse) and Initiatives at a Community level



Spreading Awareness and protect environment were discussed. The Hand in Hand, Karaikal is the NGO partner of Karaikal Municipality for door to door collection of household waste, segregation of the waste and processing of the waste. Their team work in segregating the waste in Karaikal, Upcycling Models and their waste processing methods were discussed. PPCC had sponsored 1 ton capacity of bio-digestive gasifier. All the bio-degradable waste of 1 ton capacity is converted into 30 cum of methane gas. The converted methane gas is being currently used for generation of electricity. All the street lights of the campus is being energized by the electricity.

Session – 5: Water Management in Karaikal – Current status, Gaps and Action plan (Water Quality, Domestic Sewage, Industrial Effluent, Water Conservation and Rain Water Harvesting): Thiru. K. Kalamegam, Environmental Engineer, DSTE, Puducherry

Water demand and supply scenario, causes of Water Crisis and actions required viz. Water Resource Augmentation, Sustainable Use and Pollution Prevention were discussed.



### **Water Quality Management**

Length of Coastline, number of Nalas/ Drains/Creeks meeting, number of Rivers, Lakes / Ponds, total quantity of sewage from towns and cities in District, quantity of industrial wastewater, Percentage of untreated sewage, details of bore wells and number of permissions given for extraction of groundwater, number of Groundwater polluted areas and polluted river stretches were discussed. Action points discussed are:

Inventory of water bodies - Inventory of waterbodies has been hosted in the website of district administration.

Quality of water bodies in the district - PPCC regularly conducts seasonal water quality monitoring in Arasalar river. Local bodies and PPCC have monitored water quality of few ponds. Ground water quality is monitored by the State Ground Water Unit, Agriculture Department. However, this needs to be strengthened to collect periodic water quality information on all rivers, drains, creeks, lake and ponds. The data need to be made available with district administration and information need to be disseminated. Following actions to be taken:

- (i) Creation of District Level Environment Monitoring Cell in the District Administration by District Administration to ensure periodic monitoring of water bodies for specific parameters in association with PPCC, PWD, Local bodies and State Ground Water Unit. Data shall be maintained and disseminated in the website of district administration.
- (ii) PWD and Local bodies to monitor the rivers, drains, lakes and ponds under their control as per CPCB Guidelines; State Ground Water unit to monitor ground water quality

regularly; Reports to be submitted by all agencies to the District Level Environment Monitoring Cell once in three months.

Hot spots of water contamination - PPCC is monitoring the waterbodies for contamination. Arasalar River has been identified as contaminated river stretch and action plan has been prepared and implementation of the same by Member Secretary-PPCC; Executive Engineer - PWD – I&PH; and commissioners of all Local Bodies is under progress and expected to be completed by Dec 2022.

Protection of river / lake water front - District has implemented Open Defecation Free Scheme. Also, disposal of solid wastes along river and lake front is strictly monitored and regulated by the local bodies. Idol immersion is not carried out in river and lake front and is carried out only in the designated site at coastal water of Pattinacherry village following norms prescribed by CPCB.

Inventory of sources of water pollution – PWD and Local bodies to identify the sources of water pollution in the waterbodies and drains within their jurisdiction and submit report to District Administration with copy to PPCC. Action plan and implementation to follow in time bound manner.

Oil spill disaster management (for coastal districts) – District Oil Spill Crisis Management Group and District Oil Spill Disaster Contingency Plan for the district shall be created by Dy. Collector (Disaster Management) with the help of the Disaster management cell of the district administration.

Protection of flood plains – Already formulated a District Disaster Management Plan under which flood management and protection of floodplains is included.

Rejuvenation of groundwater - Action plan to be prepared by the district Ground Water Authority to rejuvenate / recharge Ground Water, with budget and clear schedule of implementation.

Complaint redressal system - Complaint redressing system based on Mobile App and Online is available.

## **Domestic Sewage Management**

No of Class-II towns and above, No of Class-I towns and above, No of Towns STPs installed, No of Towns needing STPs, No of ULBs having partial underground, sewerage network, No of towns not having sewerage network, Total Quantity of Sewage generated in District from Class II cities and above, Quantity of treated sewage flowing into Rivers (directly or indirectly), Quantity of untreated or partially treated sewage (directly or indirectly), Quantity of sewage flowing into lakes and Total available Treatment Capacity were discussed. Action points were discussed are:

Sewage Treatment Plants (STPs) - At present there is no underground sewage collection system or sewage treatment plant in the Karaikal town and the sewage generated is mostly treated in-situ through septic tanks and soak pits. Around 2.07 MLD of untreated sewage is estimated to be discharged into the drainage channels causing pollution of waterbodies. PWD is preparing DPR for installation of 3 TPD capacity sewage treatment plant for the drainage channels in the first phase. PWD also proposes to establish underground sewage pipeline network connected to terminal sewage treatment plant of 10 MLD capacity in the town in the second phase. Following action plan to be complied: i) DPR shall be prepared by Executive Engineer, PWD – I&PH for 3 MLD STP for the drainage channels ii) Installation and commissioning of 3 MLD STP for the drainage channels by Executive Engineer, PWD – I&PH.

Underground sewerage network - DPR shall be prepared by Executive Engineer, PWD – I&PH for establishing underground sewerage network connected to terminal Sewage Treatment Plant for entire Karaikal town and implemented in time bound manner.

## **Industrial Effluent Management**

No of Industries discharging wastewater, Total Quantity of industrial wastewater generated, Quantity of treated industrial wastewater discharged into Nalas / Rivers, Common Effluent Treatment Facilities and No of Industries meeting Standards were discussed. Action plan on Compliance to discharge norms by Industries - PPCC inspecting and monitoring the industrial effluent discharge and ensures that the discharge norms are met and Complaint redressal system - Mobile App and online complaint redressal system has been provided by PPCC for pollution related complaints were discussed.

## **Water Conservation & RWH**

Karaikal district is largely depending on surface water resources for its water needs. Monsoon failure and insufficient release of water from Mettur Dam causes tremendous stress on the water resource of the district. In 2019, consequent to the deficient and uneven distribution of rainfall and inadequate receipt of Cauvery River water, the district was drought affected and most of the ponds become dry. The ground water level went down from 200 to 300 feet. To overcome the drought the district administration took up rejuvenation of village ponds with top priority and launched the Nam Neer (Our Water) project in which 178 ponds and their channels were revived within 3 months. The momentum for rejuvenation of water bodies is kept alive and each year more and more water bodies are rejuvenated and revived. During the current year 147 ponds are being desilted and rejuvenated under the NAFCC scheme of the MoEFCC.

Further, the district administration is also keen in artificial recharge of ground water through cost-effective rain water harvesting systems. A concerted effort involving various Government agencies and NGOs can create the necessary awareness among the public for installing rain water harvesting systems. In September 2021, Jal Sakthi Kendra has been established in the district by the Local Administration Department for implementing Catch the Rain scheme. The Kendra will serve as single nodal agency for all data related to water bodies and their conservation and rain water harvesting. Action points were discussed:

Augmentation of surface waterbodies - Desilting of 147 ponds under NAFCC scheme, Formation of one mini lake at Padutharkollai under NAFCC scheme and Desilting of 75 ponds under Nam Neer program.

Augmentation of ground water sources - Preparation of Action Plan for Rain Water Harvesting in Karaikal District, Preparation of DPR for Rain Water Harvesting in all government buildings with implementation timelines, Enforcement of Rain Water Harvesting in all buildings and projects where ground water is abstracted and submission of report to the district administration and IEC activities for popularizing rain water harvesting and conservation of waterbodies; at least 6 programs in a year.

Perspective of stakeholder departments viz. SE, PWD (I&PH), Karaikal and Dy. Director, LAD, Karaikal was also obtained during the session.



Session – 6: Air Quality, Noise Management, Increasing Green Cover – Current status, Gaps and Action Plan: Er. Srinivasa Rao. N, Scientific Officer, DSTE, Puducherry



### **Air Quality Management**

Current Status related to Air Quality Management process for the region of Karaikal, Status Of Ambient Air Quality & Air Quality Index and Annual average Concentration of Pollutant at the six monitored locations in the U.T. of Puducherry – 2021 were discussed. The 24 hourly average concentration of all the pollutants observed are well within the ambient air quality standards. Annual average concentration of SO<sub>2</sub> measured in all the three locations are in the range of 2.0 µg/m<sup>3</sup>, which is well within the prescribed limit of 50 µg/m<sup>3</sup>. Annual average concentration of NO<sub>2</sub> measured in all the three locations are in the ranges at 5.0 µg/m<sup>3</sup>, which is well within the prescribed limit of 40 µg/m<sup>3</sup>. Annual average concentration of PM<sub>10</sub> measured in all the three locations are in the range of 37 – 46 µg/m<sup>3</sup>, which is within the within the prescribed standard limit of 60 µg/m<sup>3</sup>. One of the reasons for low levels of pollution is that the region of Karaikal has excellent ventilation effects due to sea and land breezes which reduces pollution levels. Action plan discussed were:

Identification of prominent air polluting sources - No gaps; There is no air pollution hotspot in the district. PPCC has the inventory of air polluting industries and ensures their compliance to prescribe standards.

Ambient Air quality data - No gaps; Manual Ambient Air Quality Monitoring stations are operated by PPCC at 3 locations in the district and data is disseminated in the website of District Administration and PPCC.

Setting up of Continuous Ambient Air Quality Monitoring Station - At present there is no Continuous Ambient Air Quality Monitoring Station in the district. 3 CAAQM stations have been established by Karaikal port within their premises and the data is available for public viewing on real time basis in the PPCC website. PPCC to be establish one CAAQM station in Karaikal with real time digital display (board) of standards of air quality parameters for the

public and the same will be added to the official website of the district administration and PPCC.

District Level Action Plan for Air Pollution - Air quality is within the prescribed NAAQM Standards. PPCC shall prepare District Level Action Plan for improvement of existing air quality and to ensure that NAAQM Standards are met continuously. meeting the emission norms at all times.

Hot Spots for air pollution in district - No air pollution hot spots are located in the district and the air quality is meeting the NAAQM Standards.

Awareness on Air Quality - AAQ data from the manual monitoring stations are available to public in the website of District Administration and PPCC.

### **Noise Management**

Noise Pollution (Regulation and Control) Rules, 2000, Noise Pollution (Regulation and Control) Rules, 2010, Ambient air quality standards in respect of noise for different areas/zones, Responsibility as to enforcement of noise pollution control measures, G.O. of Govt. of Puducherry on designation of concerned authority for concerned authorities for enforcement of Noise rules and Current Status related to Noise Pollution Management were discussed. Action points discussed are:

Availability of Sound/Noise Level Meters - Sufficient number of Noise Level Meters are available with PPCC and Traffic Police.

Ambient Noise Level monitoring - Ambient Noise Level monitoring is carried out regularly at 4 locations in Karaikal town. There is no alarming noise pollution. PPCC and police department to conduct noise monitoring in noise potential areas and take action against defaulters. Report to be submitted to District Level Environment Monitoring Cell once in three months.

Signboards in Noise zones - Adequate number of sign board to be installed in the roads along silent zones.

Complaint redressing system - Mobile App and online complaint redressal system has been provided by PPCC for pollution related complaints.

## **Increasing Green Cover**

Current Status of Green Cover in Karaikal were discussed. Measures to improve Green Cover in Karaikal viz. Social agroforestry programmes, tree plantation drives by Forest Department and Agriculture Department in Karaikal, 52.54 Ha. of land under plantation by Social and Agro Forest scheme, Tree plantation under MGNREGS in the vacant lands and pond bunds by DRDA, 15000 nos. of Palm seeds sown from Mandapathur to Vanjore along seashore area by BDO, Karaikal and Rotary Club in 2020-21 – Creating natural defense against cyclones and coastal hazards, Artificial mangrove forest: Developed and maintained by the Department of Tourism, Forest and Wildlife and Fisheries in the tri junction of River Arasalar, Bay of Bengal and Beach of Karaikal (Currently, the area of mangroves is 32.3 ha. with seven species of true mangrove plants and 128 species of associated mangrove plants and Place for migratory water bird species around the year) and the district administration has initiated establishment of a Biodiversity Park in this Mangrove area were discussed. Action points discussed were:

Inventory of land available for afforestation programme - The government land suitable for afforestation drive shall be identified by Survey and Settlement Division, Revenue Dept. Forest Department and PWD – I&PH and published in the district website.

Enhancing green cover - Conducting mass tree plantation programmes in the identified sites with participation of industries, educational institutions, NGOs and public, Establishment of Biodiversity Park in Mangrove Forest by Forest Department and PWD – I&PH, Establishment of Eco- Park at PAJANCO&RI, Karaikal by PAJANCO&RI, Free distribution of 5000 Tree saplings to farmers and general public to increase green cover by Forest Department, Plantation of 1200 tree saplings in Temple land, Tree plantation along bunds of 75 Ponds proposed for desilting under Nam Neer Program and Tree plantation along bunds of 147 ponds rejuvenated under NAFCC project.

Perspective of stakeholder departments viz. Representative of Transport Department, Representative of Police Department (Traffic), Representative of Health Department, Representative of Forest Dept., Karaikal and Representative of Agriculture Dept., Karaikal was obtained during the session.

Session – 7: Mining and Coastal Zone Management – Current status, Gaps identified and Action Plan: Thiru. P. Vipin Babu, Scientist, PPCC, Puducherry

### **Coastal Zone Management**

The provisions in the Notifications of Coastal Regulation Zone (CRZ) viz. CRZ,1991, CRZ, 2011 and CRZ, 2019 were discussed. The objective of CRZ Notifications are:

- To ensure livelihood security to the fisher communities and other local communities, living in the coastal areas.
- To conserve and protect coastal stretches, its unique environment and its marine area.
- To promote development through sustainable manner based on scientific principles taking into account the dangers of natural hazards in the coastal areas, sea level rise due to global warming.



CRZ Classifications, Prohibited and Permissible activities in each CRZ category areas and preparation of Coastal Zone Management Plan were discussed.

### **Coastal Action Plan**

Puducherry Pollution Control Committee is preparing the Coastal Action Plan for the U.T of Puducherry in compliance with the Hon'ble NGT order in OA 829/2019 dated 21.09.2020. The Action Plan was submitted to CPCB on 08.12.2020 and the CPCB has requested to include additional components in the Action Plan. PPCC in consultation with the National Centre for Coastal Research (NCCR) , Chennai has taken initiatives for the preparation of the Coastal Action Plan under this the Coastal Water Quality Monitoring is proposed to be taken up in the coming months. The NCCR will monitor the coastal waters upto 5km from the shore line and also will facilitate in classifying the coastal waters into SW-I to SW-IV class waters as applicable. The coastal stretches will be mapped and the stretches will be shown based on the designated best use classification of the coastal waters in the Puducherry UT.

The various actions to be taken are:

- Identification of the Polluted river / drains reaches the sea.
- Inventorisation of the Industries discharging effluent into the sea.
- Providing sewage treatment plants to the drains that reaches the sea.

- Evolving scientific coastal area waste management system.
- Eradication of the open defecation.
- Establishing periodic coastal water monitoring network.
- Periodic monitoring of the drains and rivers entering into sea.
- Green belt development along the coastal area.
- Coordination with Institute of importance.
- Integrated coastal Zone Management Plan.
- Development of Information Education and Communication (IEC) Network.

The action plan discussed are:

Coastal Pollution - Monitoring of coastal water quality regularly by PPCC and submission of report to District Level Environment Monitoring Cell.

Shoreline Protection - Monitoring the shoreline changes at regular intervals by and submitting reports to the District Level Environmental Monitoring Cell; initiating appropriate measures for shore line protection based on long-term monitoring of shoreline changes. Action by General Manager (Envt.&Safety), Karaikal Port and Executive Engineer, PWD - I&PH

### **Mining Management**

The following points were highlighted to the participants:

- Sand mining is prohibited in CRZ areas.
- Any Sand mining activity in non CRZ area irrespective of size of the mine lease area shall be carried out only after obtaining Prior Environmental Clearance under EIA Notification, 2006 from SEIAA / MoEFCC.
- District Survey Report identifying potential sand mining areas in the district has to be prepared by the District Administration and approval of SEIAA has to be obtained before giving any mining lease.
- Sand mining to be regulated as per Guidelines published by MoEFCC in 2016 & 2020.
- Removal of sand bars shall be carried out by traditional communities, by traditional methods without machineries, and as per the Emt Management Plan in designated places after getting necessary approval from the PCZMA, competent authorities.

- The removal of sand bars shall be in compliance with the orders issued by the GoP, and as per the Procedure stipulated in the Office Memorandum issued by the MoEF&CC, Hon'ble NGT.

The action points discussed are:

Monitoring of Mining activity - There is no sand mining quarry or other mining leases issued in the district.

Inventory of illegal mining if any mining - Special Task Team has been constituted under the chairmanship District Collector for curtailing illegal sand mining and its transportation. Records are maintained by DRDM.

Environment compliance by Mining industry - There is no sand mining quarry or other mining leases issued in the district.

Perspective of stakeholder departments viz. Representative of DRDM, Karaikal, Representative of T&CP Dept., Karaikal and Representative of KPA, Karaikal as obtained during the session.

#### Session – 8: Moderated discussion with Participants

The moderated discussion session was scheduled after completing the technical session by the resource persons of wide fields to demonstrate the current status of District Environmental Plan of Karaikal and its action plan. The participants came forward to express their views in the action plan and provided various inputs for better implementation of District Environmental Plan of Karaikal. The points listed out in the sessions are stated below:

- The Commissioner, Karaikal Municipality informed that 100% door to door collection of waste is being performed from 2016. Out of 29,000 households, 14,400 households, source segregation was done from the household itself, remaining households were not segregated their waste. This was great challenge in sorting out the domestic waste. Out of 3500 Commercial establishments in Karaikal municipality, only 30% of them, disposing their waste after waste segregation. Penalty shall be imposed to the other Commercial establishment for non-segregation of their wastes. Door to door collection

system was not established in other local bodies. They are collecting waste from collection points and hotspots. Presently, Manual sweeping only performed. No machineries were involved as all the roads were narrow in Karaikal. 100% collection of Solid waste is being performed. One deposition center was established in by-pass road of Karaikal. Additional trucks were required to meet out additional households / additional waste generation when compared to the year 2016. LAD floated integrated tender to implement door to door collection in all the households in Karaikal region including all the villages. It would be implemented within 3 months. The shortage of trucks will be managed after the implementation. Liquid waste management viz. sewage and drainage were also included in the tender. Bio- methanation plant was already installed in Karaikal Municipality. Bio- methanation plants were proposed to be installed in other commune panchayats also. There was no space at present for loading recyclable waste. Drone survey was done for bio-mining of legacy waste. Removal of the waste was in progress. 70 numbers of Waste pickers were identified and ID card has been provided. Own Bye-laws was prepared and amendment was in progress. Revenue of the Karaikal Municipality was not sufficient to meet the current expenditure.

- The Commissioner, Kottucherry and Nedungadu Commune Panchayat informed that only two sanitary workers at the age of retirement were available in Kottucherry Commune Panchayat. However, collection of waste from the hotspots were performed. SE and EE, PWD extended their support in providing JCB and tripper for collection of waste. Also, students and principal of Karaikal Polytechnic College and NSS students were helping for generating electricity from waste.
- The Commissioner, Neravy and TR Pattinam Commune Panchayat informed that 3 sanitary workers are there for 4 revenue villages in Neravy Commune Panchayat. In TR Pattinam Commune Panchayat with 5 revenue villages, five sanitary workers (3 women and 2 men) were there. In both the commune panchayats, it was very difficult to collect the waste with minimum number of staffs. Revenue of the commune panchayat was not sufficient to manage the waste collection and segregation of waste. Nearby industries viz. Karaikal Port, Chemplast were extending their support in providing JCB and tripper monthly one time for collection of waste.
- The Commissioner, Thirunallar Commune Panchayat informed that less amount of sanitary workers were there. For 9 revenue villages, nearly 10,150 households were

there which generates 5 tons of waste per day. Directly, the waste from hotspots collected and dumped in the dumping yard. No door to door collection was performed, hence no segregation of waste would be performed. Sometimes, the waste pickers pick up the recyclable materials from the garbage and burns the waste which resulted in public complaints from the nearby houses. Revenue was very low to manage the waste collection and segregation of waste.

- Dr. Sivakumar Ramalingam, Assistant Professor, Civil Engg. Dept., National Institute of Technology Puducherry (NITPY) informed that the Plastic waste after the use, it reaches the ocean, disintegrates and converted as micro-plastics. The fish and other aquatic organisms eats the micro-plastics. When humans eats the fish, the micro-plastics enters the stomach of humans. Recently, micro-plastics were reported to be found in mothers' milk too. This is a serious issue of concern. The action plan should involve stringent measures towards the reduction of plastic pollution.
- Karaikal Port - In Large Industries, 99% of the waste has been streamlined. The inventory of Hazardous and other waste and status of their disposal has to be furnished in the annual report of the firm. Hence, adequate measures shall be made by the large industries to adopt novel methods to streamline the waste management process. But it is difficult for the small and medium scale enterprises and informal industries to streamline the recyclable waste and hazardous waste generated by them. Also, no disposal of e-waste or hazardous facility was available within 100 km radius of the town. The cost of their disposal was more expensive. All stakeholders shall join their hands in enhancing their competencies to adopt new technologies in handling wastes. It was informed by SEE, PPCC that more recycling industries are ready to come forward to set up their unit with disposal site, common incineration plants, treatment plants and bio medical treatment plants. But being a small area, guidelines of CPCB says that minimum 500 m of the land is maintained as buffer zone. There is no such site available in Karaikal fulfilling these conditions.
- Chemplast Sanmar – The industry is following all the rules of CPCB. The Hazardous and other waste is disposed to authorized recyclers once in 3 months.
- Karaikal Chlorides – The industry is having meager quantity of process waste which are dissolvable in nature and could be recyclable easily as per the CPCB guidelines.
- PPCL, Puducherry - The Hazardous and other waste were stored in the storage facility and disposed to authorized recyclers every month.



- SSP, Karaikal – Presently 2 Noise monitor is available with Police department. If any person wants permission to use loud speaker, it goes to local police station and local police station has to give the permission. They don't have sufficient noise monitoring instrument for that. If, additional 8 instruments are provided, it would be useful. The cost of each instrument is around 5 lakhs. It was suggested that SSP, Karaikal shall send a request letter for supplying additional 8 noise measuring instruments to PPCC. PPCC shall seek financial assistance from CPCB for procuring the instruments.
- Regional NSS Coordinator – The trees saplings are being planted with the help of students and volunteers every month. The tree Guards shall be provided to sustain for the growth of the trees to enhance the green cover of Karaikal. It was decided to seek help from the nearby industries to lay tree Guards for the planted tree saplings. The proposal for provisioning the tree guards shall be sent to DST, GoI to fund under the NGC scheme from this year by DSTE, Puducherry.
- SEE, PPCC - Every state should have at least 33% of its land cover as green cover. Puducherry is having 11.5 % and Karaikal is having 6.5% only. The green cover of the U.T. needs to be improved. It is not only the duty of PWD, LAD and Forest department to increase the green cover. Every individual as a citizen of the state shall carryout tree plantation in their nearby area. The industries shall fund under their CSR / EPR for the tree guards and supply water for the trees in places nearby their industries.





## Concluding Session

Dr. N. Ramesh, Senior Environmental Engineer, Department of Science, Technology and Environment, Puducherry, summarized the workshop proceedings and points raised by the stakeholders. He highlighted the key actions on the 10 thematic areas that has been identified in the District Environment Plan.

Some of the stakeholders have pointed out that since there is no Hazardous / Biomedical Waste Treatment and Disposal Facility, E-waste collection centers and Waste recycling units in Karaikal District disposal of these wastes becomes costlier due to high transportation costs. He said that due to the limited land resources in Karaikal it is difficult



to find suitable land for establishing TSDF as it is required to have 500 meters buffer zone around the site. However, measures are being taken to identify suitable land and establish such facilities. It is ensured that hazardous waste are not disposed in unauthorized manner by robust monitoring mechanism established by PPCC.

Regarding liquid waste management, he pointed out that the PWD is taking steps to install a 3 MLD STP in the first instance to prevent untreated waste water entering into the Arasalar River. He urged that PWD should take time bound action to prepare the DPR and install the STP within one year.

He appreciated the fact that the Karaikal Municipality is generating about 30 cu.m. of methane gas from the biodegradable wastes in its resource recovery park and the entire gas generated is used for electricity generation for street lighting within the facility, which is a successful model.

Community efforts, corporate social responsibility and employee social responsibility should be mobilized for conservation of water bodies and increasing the green cover.

The Conference ended with Vote of Thanks by Er. Srinivasa Rao. N, Scientific Officer, DSTE, Puducherry.

## Annexure – I: List of Participants

Sl.	Name	Designation	Organization	Location
1.	R. Karthik	Manager	Chemplast Sanmar Ltd.	Karaikal
2.	Dr. N. Viyasarayar	Principal	Arignar Anna Govt. Arts and Science College	Karaikal
3.	M. Santhakumar	Plant Manager	Karaikal Chlorides	Karaikal
4.	D. Nagarajan	Junior Engineer	Neravy Commune Panchayat	Karaikal
5.	U. Manimaran	Asst. Director/ Dist. Youth Coordinator	Nehru Yuva Kendra	Karaikal
6.	M. Saravanan	-	Puducherry Power Corp. Ltd.(PPCL)	Karaikal
7.	R. Ramesh	Project Manager	Hand in Hand	Karaikal
8.	Senthilkumar	Assistant	Karaikal District Collector Office	Karaikal
9.	N. Ravi	Commissioner	Thirunallar Commune Panchayat	Karaikal
10.	S. Sankar	-	Godrej Consumer Products	Karaikal
11.	P. Maiyazhagan	Junior Engineer	T.R.Pattinam Commune Panchayat	Karaikal
12.	G. Ravanan	Junior Engineer	Karaikal Planning Authority	Karaikal
13.	S. Rengaramulu	-	Hara Garden Foundation	Karaikal
14.	Dr. W.r. Bala	Junior Engineer	Avvaiyar Govt. College for Women	Karaikal
15.	R.M. Bairavan	President	Industries Forum	Karaikal
16.	RM.B. Ramaswamy	E.C.Member	Karaikal Chamber of Commune	Karaikal
17.	C. Mayavel	Member Secretary	Karaikal Planning Authority	Karaikal
18.	R. Raghavendra kumar	Urban Planner	Town & country Planning Authority	Karaikal
19.	Dr. R. Sagaya Alfred	Sr. Scientific Officer	Dept. of Science and Technology	Puducherry
20.	Dr. N. Ramesh	Sr. Env. Engineer	Dept. of Science and Technology	Puducherry
21.	Er. Srinivasa Rao. N	Scientific Officer	Dept. of Science and Technology	Puducherry
22.	K. Kalamegam	Env. Engineer	Dept. of Science and Technology	Puducherry
23.	C. Poogajendy	Jr. Engineer	Dept. of Science and Technology	Puducherry
24.	P. Vipin babu	Scientist	Puducherry Pollution Control Committee (PPCC)	Puducherry
25.	S. Devaanandan	Asst. Env. Engineer	PPCC	Puducherry
26.	A. Zaahir hussain	-	Hara Garden Foundation	Karaikal
27.	J. Senthil Kumar	Additional Director	Agriculture Department	Karaikal
28.	K. Premanand	Junior Town Planner	Town & country Planning Authority	Karaikal
29.	K. Kumara thangam	Junior Engineer	Local Administrative Department	Karaikal
30.	P. Ashok kumar	Jr. Scientific Asst.	Dept. of Science and Technology	Karaikal
31.	R. Kaviyaran	Deputy Director	Fisheries Dept.	Karaikal
32.	A.Pouchepparajou	Dean	PAJANCOA@RI	Karaikal
33.	K. Rajaganapathy	Executive Engineer	PPCL	Karaikal
34.	R. Balan	Commissioner	Kottucherry & Nedungadu Commune Panchayat	Karaikal
35.	Dr. R. Sivaraja	Deputy Director	Health Department	Karaikal
36.	S. Karthikeyan	Scientist - C	CPCB, RO, Chennai	Chennai
37.	S. Mathivanan	Vice President. (Op)	Chemplast - Sanmar Ltd.	Karaikal
38.	B.Veerababu	Dy. Manager - HR	Vaigai Industries	Karaikal
39.	R. Vaitherswaran	Manager	Karaikal Chlorides	Karaikal
40.	P. Murugan	Reg. Coordinator CSS	Education Dept.	Karaikal
41.	G. Elamurugan	Commissioner	Thirunallar & Neravy Commune Panchayat	Karaikal

42.	D. Ravisankar	General Manager EHS	Karaikal Port	Karaikal
43.	K. Rajasekaran	C.E.O	Education Dept.	Karaikal
44.	Dr.V. Lakshmanapathi	NSS Co-ordinator	Education Dept.	Karaikal
45.	P. Sureshkumar	District legal service authority	District Court	Karaikal
46.	K. chandrasekaran	Executive Engineer	Public work department	Karaikal
47.	K. Veeraselvam	Executive Engineer	I&PH, Public work department	Karaikal
48.	J. Mahesh	Assistant Engineer	I&PH, Public work department	Karaikal
49.	G. Senthilnathan	Commissioner	Karaikal Municipality	Karaikal
50.	M. Loganathan	Executive Engineer	Karaikal Municipality	Karaikal
51.	S. Jothibabu	-	Karaikal Municipality	Karaikal
52.	J. kamalakannan	-	Thirunallar Commune Panchayat	Karaikal
53.	Dr. R Sivakumar	Assistant Professor	Civil Engg. Dept., National Institute of Technology Puducherry (NITPY)	Karaikal
54.	K. Aranagrathan	Executive Officer (Temples) / BDO	BDO, Karaikal	Karaikal
55.	P. Angalan	RTO	Transport Dept.	Karaikal
56.	Dr. Sundaram	Professor	PAJANCOA@RI	Karaikal



## Annexure – II: Conference Agenda

GOVERNMENT OF PUDUCHERRY

DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT

PUDUCHERRY POLLUTION CONTROL COMMITTEE

### ANNUAL CONFERENCE ON KARAİKAL DISTRICT ENVIRONMENT PLAN

Venue: AVS Imperiaa, Karaikal

Date: 01<sup>st</sup> July 2022

Time: 09.30 A.M. to 05.15 P.M.

#### AGENDA

09.30 A.M. - 10.00 A.M.	<b>Registration</b>
10.00 A.M. – 10.30 A.M.	<b>Inaugural Session:</b> <ul style="list-style-type: none"><li>• <b>Invocation</b></li><li>• <b>Welcome Address</b> – Dr. R. Sagaya Alfred, Senior Scientific Officer, DSTE, Puducherry</li><li>• <b>Special Address</b> – S. Karthikeyan, Scientist– D, Central Pollution Control Board, Regional Office, Chennai.</li><li>• <b>Inaugural Address</b> – Thiru. L. Mohamed Mansoor, District Collector, Karaikal</li><li>• <b>Key Note Address</b> – Tmt. Smitha. R, IAS, Secretary to Government (Science, Technology and Environment) – cum – Chairperson (PPCC)</li></ul>
10:30 A.M. – 11:00 A.M.	<b>Overview of District Environment Plan:</b> <ul style="list-style-type: none"><li>• Thiru. K. Kalamegam, Environmental Engineer, DSTE, Puducherry</li></ul>
11:00 A.M. – 11:15 A.M.	<b>Tea Break</b>
11.15 A.M. to 01.00 P.M.	<b>Solid Waste Management in Karaikal District: Current status, Gaps and Action plan (Municipal Solid Waste, Plastic Waste and C&amp;C Waste, Bio-medical Waste, Hazardous Waste and E-Waste) –</b> <ul style="list-style-type: none"><li>• Dr. N. Ramesh, Senior Environmental Engineer, DSTE, Puducherry</li></ul> <b>Perspective of stakeholder departments</b> <ul style="list-style-type: none"><li>• Commissioner, Karaikal Municipality</li><li>• Commissioner, Kottucherry Commune Panchayat</li><li>• Commissioner, Neravy Commune Panchayat</li><li>• Commissioner, Nedungadu Commune Panchayat</li><li>• Commissioner, T.R. Pattinam Commune Panchayat</li><li>• Commissioner, Thirunallar Commune Panchayat</li><li>• Commissioner, Dy. Director, Health Department</li></ul>

01:00 P.M. – 02:00 P.M.	<b><u>Lunch</u></b>
02.00 P.M. – 02.30 P.M.	<p><b><i>Solid Waste Management- Recycle for Development</i></b></p> <ul style="list-style-type: none"> <li>• Presentation by Hand in Hand, Karaikal</li> </ul>
02:30 P.M. – 03:15 P.M.	<p><b><i>Water Management in Karaikal – Current status, Gaps and Action plan (Water Quality, Domestic Sewage, Industrial Effluent, Water Conservation and Rain Water Harvesting)</i></b></p> <ul style="list-style-type: none"> <li>• Thiru. K. Kalamegam, Environmental Engineer, DSTE, Puducherry</li> </ul> <p><b><i>Perspective of stakeholder departments</i></b></p> <ul style="list-style-type: none"> <li>• SE, PWD (I&amp;PH), Karaikal</li> <li>• Dy. Director, LAD, Karaikal</li> </ul>
03:15 P.M. – 03:30 P.M	<b>Tea Break</b>
03:30 P.M. – 04:15 P.M.	<p><b><i>Air Quality, Noise Management, Increasing Green Cover – Current status, Gaps and Action Plan</i></b></p> <ul style="list-style-type: none"> <li>• Er. Srinivasa Rao. N, Scientific Officer, DSTE, Puducherry</li> </ul> <p><b><i>Perspective of stakeholder departments</i></b></p> <ul style="list-style-type: none"> <li>• Representative of Transport Department</li> <li>• Representative of Police Department (Traffic)</li> <li>• Representative of Health Department</li> <li>• Representative of Forest Dept., Karaikal</li> <li>• Representative of Agriculture Dept., Karaikal</li> </ul>
04.15P.M. – 04.30 P.M.	<p><b><i>Mining and Coastal Zone Management – Current status, Gaps identified and Action Plan</i></b></p> <ul style="list-style-type: none"> <li>• Thiru. P. Vipin Babu, Scientist, PPCC, Puducherry</li> </ul> <p><b><i>Perspective of stakeholder departments</i></b></p> <ul style="list-style-type: none"> <li>• Representative of DRDM, Karaikal.</li> <li>• Representative of T&amp;CP Dept., Karaikal.</li> <li>• Representative of KPA, Karaikal</li> </ul>
04.30 P.M. – 05.00 P.M.	<ul style="list-style-type: none"> <li>• <b>Moderated discussion with Participants</b></li> </ul>
05.00 P.M. – 05.15 P.M.	<p><b>Concluding Session:</b></p> <ul style="list-style-type: none"> <li>• <b><i>Concluding Remarks</i></b> - Thiru. L. Mohamed Mansoor, District Collector, Karaikal</li> <li>• <b><i>Vote of Thanks</i></b> – Er. Srinivasa Rao. N, Scientific Officer, DSTE, Puducherry</li> <li>• <b><i>National Anthem</i></b></li> </ul>

## Annexure – III: Newspaper Clippings

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went viral on social media on Tuesday afternoon.

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# Karaikal admin sets management agenda for environment plan

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**EXPRESS NEWS SERVICE @ Karaikal**

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KARAIKAL district administration and the Puducherry Pollution Control Board have selected seven themes for the environmental plan for Karaikal. The themes include the management of: solid waste, water quality, domestic waste, industrial waste, air quality, mining and noise pollution management. They started preparing the plan in October, 2021.

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The annual stakeholders' conference took place at a private hotel in Karaikal on July 1 where the environmental plan was discussed. Officials from various departments, entrepreneurs, industrialists, social activists and representatives from Karaikal Industrial Forum participated in the meeting. R Smitha, the secretary of the science, technology and environment department, delivered a speech, while C Karthikeyan, scientist from the Central Pollution Control Board, delivered a special address. Collector Mohamed Mansoor presided over.



Collector L. Mohamed Mansoor addressing stakeholders conference | EXPRESS

According to the board, the conference is the first of such meeting held at the national level in Karaikal. The speakers addressed officials from the science, technology and environment departments on the implementation of the themes. They also spoke of increasing the forest cover area and improving the handling of medical, electronic and hazardous wastes.



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KERALA MEDICAL SERVICES CORPORATION LTD.



# காரைக்காலில் சுற்றுச்சூழல் குறித்து கருத்தரங்கம்

காரைக்கால், ஜூலை 7: காரைக்கால் மாவட்ட சுற்றுச்சூழல் திட்டம் குறித்து வருடாந்திர கருத்தரங்கம் காரைக்காலில் உள்ள தனியார் ஓட்டலில் நடைபெற்றது. நிகழ்ச்சியை அறிவியல் தொழில்நுட்பம் மற்றும் சுற்றுச்சூழல் துறை மற்றும் புதுச்சேரி மாசுக் கட்டுப்பாட்டு குடும்பத்துடன் இணைந்து காரைக்கால் மாவட்ட நிர்வாகம் நடத்தியது. இந்த நிகழ்ச்சியில் மாவட்ட சுற்றுச்சூழல் தரத்தை அந்தந்த துறைகளுக்கு இலக்குகளை நிர்ணயம் செய்யப்பட்டது. மேலும் மாவட்ட சுற்றுச்சூழல் திட்டத்தை ஏழு கருப்பொருள் பகுதிகளாக செயல் திட்டத்தை உள்ளடக்கியது.

கருத்தரங்கில் திடக்கழிவு மேலாண்மை, நீர் தர மேலாண்மை, வீட்டுக் கழிவு மேலாண்மை, தொழிற்சாலைகழிவுமேலாண்மை மற்றும் காற்று தர மேலாண்மை, ஒலி மாசு மேலாண்மை ஆகியவைகள் குறித்து கருத்தரங்கில் விளக்கி கூறப்பட்டது. இந்த கருத்தரங்கில் அறிவியல் தொழில்நுட்பம் மற்றும் சுற்றுச்சூழல் செயலாளர் ஸ்மிதா முக்கிய

## கலெக்டர் பங்கேற்பு



▶ காரைக்காலில் சுற்றுச்சூழல் குறித்து வருடாந்திர கருத்தரங்கம் நடைபெற்றது. இதில் கலெக்டர் முகமது மன்சூர் பேசுகிறார். அருகில் தொழில்நுட்பம் மற்றும் சுற்றுச்சூழல் துறை செயலாளர் ஸ்மிதா.

குறிப்புகளை வழங்கினார். மேலும் இந்நிகழ்ச்சியில் காரைக்கால் மாவட்ட ஆட்சியர் முகமது மன்சூர் தலைமை உரையாற்றினார். இந்த கருத்தரங்கில் சிறப்பு அழைப்பாளராக சென்னை மத்திய மாசு கட்டுப்பாட்டு வாரிய விஞ்ஞானியுமான கார்த்திகேயன் கலந்துகொண்டு சிறப்புரையாற்றியதுடன் ஏழுவகையான கருப்பொருள்களை எவ்வாறு கையாள்வது என்பது குறித்து விளக்கம் அளித்தார். நிகழ்ச்சியில்

மாவட்டத்தின் பல்வேறு அரசு தொழில் மற்றும் பொதுப்பணித்துறை, நல்வழி துறை அதிகாரிகள் பலர் கலந்து கொண்டனர்.

நிகழ்ச்சியில் சிறப்பம்சமாக தேசிய பசுமை தீர்ப்பாயத்தின் அணைப்பட்டி மாவட்ட சுற்றுச்சூழல் திட்டம் சார்ந்த வருடாந்திர கருத்தரங்கம் தேசிய அளவில் முதல் முதலில் காரைக்கால் மாவட்டத்தில் செயல்படுத்தப்பட்டு இருப்பது குறிப்பிடத்தக்கதாகும்.