



**DEPARTMENT OF SCIENCE AND TECHNOLOGY**  
**Andaman and Nicobar Administration**

# NEWS LETTER

Tech frontier

NEWSLETTER (1<sup>st</sup> Edition) JAN 2025



**विज्ञान तथा प्रौद्योगिकी विभाग**  
**DEPARTMENT OF SCIENCE & TECHNOLOGY**  
**अंडमान तथा निकोबार प्रदूषण नियंत्रण समिति**  
**ANDAMAN & NICOBAR POLLUTION CONTROL COMMITTEE**  
**अंडमान तथा निकोबार प्रशासन**  
**Andaman & Nicobar Administration**

## **IN THIS EDITION:**

**From the Secretary's Desk**

**About Department**

**Scheme for Young Scientists & Technologist(SYST)**

**Women Scientist Scheme-A (WOS-A)**

**Celebration of important days**

**Delivery of G2B Service**

**Monitoring of air quality parameters**

**Ban on Single Use Plastic**

**NGT matters**

**Management of e waste and hazardous waste**

**Latest activities**

**Our Commitment to a Sustainable Future**

**“CLEANLINESS IS NEXT  
TO GODLINESS”**

*-Mahatma Gandhi*





## FROM THE SECRETARY'S DESK :

It is with great pleasure that we present the first edition of our newsletter, highlighting the initiatives and achievements of the Department of Science and Technology (DST) and the Andaman and Nicobar Pollution Control Committee (ANPCC). These institutions are at the forefront of fostering scientific awareness, environmental sustainability, and pollution control measures in our islands.

DST organizes events like National Science Day, Earth Day, World Environment Day, and Ozone Layer Protection Day to emphasize conservation and sustainable practices. These observances engage students, researchers, and the public through discussions and awareness programs.

ANPCC plays a crucial role in monitoring environmental parameters, ensuring a healthy ecosystem. It has established an air quality monitoring network with both manual and Continuous Ambient Air Quality Monitoring Stations (CAAQMS) to track pollution levels and formulate mitigation strategies.

A significant initiative is the strict enforcement of the ban on single-use plastic. Recognizing its harmful impact, awareness drives, penalties, and eco-friendly alternatives are being promoted to make our islands cleaner and greener.

Additionally, ANPCC represents environmental concerns at the National Green Tribunal (NGT), ensuring compliance with environmental laws and policies.

I urge all stakeholders, including government agencies, industries, educational institutions, and the community, to collaborate in safeguarding the ecological balance of our beautiful islands. Let us work together for a cleaner, healthier, and sustainable future.

**A.S.P.S. Raviprakash, IAS**  
**Secretary, Science & Technology**  
**Andaman & Nicobar Administration**





## ABOUT DEPARTMENT OF SCIENCE & TECHNOLOGY

The Department of Science Technology (DST) is the Nodal Department of Andaman and Nicobar Administration for promotion of Science and Technology in Andaman and Nicobar islands. DST takes up various activities for promotion of scientific temper among the islanders particularly among the school children and collaborates with the research institutions in mainland for introduction technological intervention programs in various line departments for betterment of islands. Besides that, under the umbrella of DST, the Andaman and Nicobar Pollution Control Committee (ANPCC) is functioning. The ANPCC is responsible for monitoring and implementation of pollution control measures in Andaman and Nicobar Islands and co ordinate with various departments for mitigation of pollution.

The objectives includes promoting scientific temper and encourage technological development in the islands, to organize scientific education programmes to create scientific awareness and outlook among the children in particular and public in general by organising seminars & workshops. To coordinate with Central and State agencies for implementation of S & T intervention programmes in these islands.





## ANDAMAN AND NICOBAR POLLUTION CONTROL COMMITTEE:

Pollution Control Committee was constituted under the provision of Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 in the year 1992 to implement the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 and rules made there under is now responsible for enforcing following Acts and Rules partly and fully:

- The Environment (Protection) Act, 1986 and Rules made there under
- The Solid Waste Management Rules, 2016
- The Bio-Medical Waste (Management and Handling) Rules, 2016
- The Plastic Waste (Management) Rules 2016
- The Hazardous and Other Wastes (Management and Transboundary Movement) Amendment Rules, 2016.
- The Construction and Demolition Waste Management Rules, 2016
- The Battery Waste Management Rules, 2022.
- The Noise Pollution (Regulation and Control) Rules, 2000.

The Pollution Control Committee has been playing a key role in controlling pollution by generating data, providing scientific information, rendering technical inputs, through activities for promoting awareness at different levels.





## SCHEME FOR YOUNG SCIENTISTS & TECHNOLOGIST (SYST)

The Department facilitates the local young scientist to avail the central Scheme operated by the Ministry of Science and Technology, GOI for Young Scientists & Technologist. The scheme is focused on young scientists & technologist who have adequate background and training in fields of science and technology and show inclination to undertake socially relevant action research projects. This is also to encourage academic institutions, national labs and other S&T institutions (including voluntary organizations) to develop societal projects involving young scientists & technologist.

### Women Scientist Scheme-A (WOS-A)

The Department also facilitates central Scheme-“Women Scientists Scheme-A (WOS-A)” which provides platform to women scientists and technologists for pursuing research in basic or applied sciences in frontier areas of science and engineering. The scheme plays pivotal role in gender mainstreaming as it not only prevents brain drain from S&T system but also train and retain women in the system. The scheme initially offers opportunity to work as bench-level scientists and ultimately open new avenues for permanent position in Science & Technology.

### Women Scientist Scheme-B (WOS-B)

Women Scientist Scheme-B (WOS-B) focuses on projects related to Science & Technology (S&T) interventions for societal benefit. Such project proposal should address a well-identified societal challenge and deliver possible solution(s) by way of development of viable technology/technique and/or lab-to-land technology transfer, its adaptation and scaling up. Women scientists who wish to apply under this scheme are required to develop their own project/proposals for scientific and technological solutions to address issues preferably at enhance quality-of-life the grassroots level. The proposal must clearly bring out the societal benefit to be accrued through well conceived plan for development of technology/technique and/or adaptation/customization. The candidate should have adequate S&T skills and be adept at techniques to deliver the proposed outcome. Projects which have the potential for sustainable income generation, lead to appreciable reduction in drudgery and enhancement of quality-of-life besides capacity building of women at the grassroots level are encouraged.





### Women Scientist Scheme-C (WOS-C)

Women Scientist Scheme-C (WOS-C) is being implemented by the Patent Facilitating Centre of Technology Information Forecasting & Assessment Council (TIFAC). The scheme aims to train women having qualifications in science/engineering/medicine or allied areas in the field of Intellectual Property Rights (IPRs) and their management for a period of one year in order to develop a pool of women scientists geared to creating, protecting and managing intellectual property in India. Hands-on training on different aspects of IPRs (e.g. patent search, know-how, drafting, filing, trademarks, trade secrets, copyright etc.) is major part of WOS-C curriculum in association with various Knowledge Partners (i.e. Law firms, Knowledge Processing Organizations (KPOs), Companies, Government agencies, and so on).



**Eligibility Criteria:** (1) Women in permanent position are not eligible to apply (2) Age range: 27 years - 45 years (3) Minimum essential qualification: Master of Science; Bachelors in Engineering/Technology or equivalent. (4) Desirable qualification: Proficient in handling computerized database, collection, collation, analysis and report preparation.

#### Procedure for Applying:

Proposals are to be submitted online on WOS portal <http://online-wosa.gov.in>. Those interested in submitting proposal have to register at this portal and submit the proposal online. Please read the guidelines available on the portal carefully before submitting the proposal. Detailed guidelines are given below also. Send one hard copy of submitted proposal to Mrs. Namita Gupta, Scientist-'G', KIRAN Division, Department of Science and Technology (DST), Technology Bhawan, New Mehrauli Road, New Delhi-110016. Super scribe envelope with 'Women Scientist Scheme-B (WOS-B)'. For further inquiries regarding WOS-B please send email to [www.dst.gov.in](http://www.dst.gov.in).

#### Achievement:

A women scientist named Dr.Nitu Sindhu, ICAR, Krishi Vighyan Kendra, Andaman and Nicobar Islands, Port Blair 744101 got successfully got approval of WOS-B Proposal entitled "Economic Empowerment and Nutritional Security of Women Farmers in Andaman & Nicobar Islands through Organics Oyster Mushroom Cultivation". For the duration of 36 months.She got an amount Rs. 29,03,472/-



# DAYS CELEBRATED FOR CREATING MASS AWARENESS AMONG STUDENTS, GENERAL PUBLIC AND STOCKHOLDERS

## 1. National Science Day:

National Science Day, celebrated on February 28 in India, honors C.V. Raman's discovery of the Raman Effect. It promotes scientific awareness, innovation, and research. Department of Science and Technology conducts science seminars and competitions among Schools, colleges, and institutions to inspire young minds. This day highlights the importance of science in societal progress.



## 2. Earth Day

Earth Day is celebrated on April 22 every year to raise awareness about environmental protection and sustainability. People participate in tree-planting drives, clean-up campaigns, and educational events. Department also organises science excursion for school students. It's a global reminder to protect our planet for future generations through responsible actions and sustainable living.



## 3. World Environment Day

World Environment Day, celebrated on June 5, promotes global awareness and action for environmental protection. It encourages tree planting, waste reduction, and sustainable living. Schools, organizations, and governments host campaigns, clean-ups, and discussions to combat pollution and climate change. This day inspires collective efforts to safeguard our planet's future.





# SAVE OZONE LAYER

Caring for all life under the sun



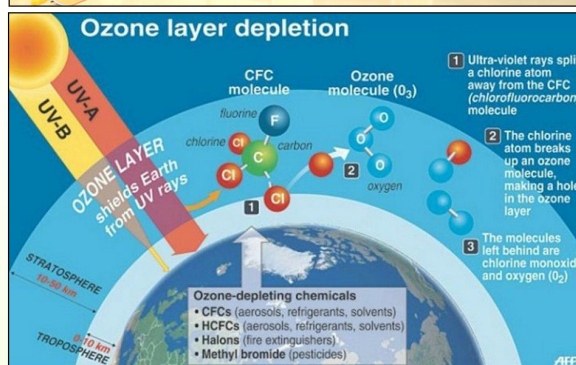
## Swachhata Hi Seva

## 5. National Pollution Day

National Pollution Control Day, observed on December 2, raises awareness about pollution and its harmful effects. It commemorates the victims of the 1984 Bhopal Gas Tragedy. Events include awareness programs and sticker on vehicle to create mass awareness to ensure a healthier and cleaner future.

## 4. Ozone Layer Day

Ozone Layer Day, observed on September 16, raises awareness about ozone depletion and the need to protect it. It marks the Montreal Protocol's success in reducing harmful emissions. Schools and organizations conduct seminars, campaigns, and eco-friendly initiatives, emphasizing global efforts to safeguard the ozone layer for future





## DIGITIZATION OF SERVICES OF THE DEPARTMENT:

### I. Grant of Consent to Establish/operate and authorisation:



The Andaman and Nicobar Pollution Control Committee grants Consent to Establish and Consent to Operate to the industrial unit as per the Section 25(1) (a) of the Water (Prevention & Control of Pollution Act, 1974 which say that “no person shall without the previous consent of the State board establish or take any step to establish any industry, operation or process or any treatment and disposal system or an extension or addition thereto which is likely to discharge sewage or trade effluents into a stream or well or sewer or on land”. And per the Section 21 of the Air (Prevention & Control of Pollution Act, 1981 which stipulates “no person shall, without the previous consent of the State Board, establish or operate any industrial plant in an air pollution control area”. ANPCC also issues authorisation under various rules framed under Environmental Protection Act, 1986

These G2B services of issue of Consent to Establish, Consent to Operate and authorisation are granted through the online portal ([www.anocmms.nic.in](http://www.anocmms.nic.in)). The applicant has to provide the information of the activity and relevant documents at the online portal to get the services.

### II. Grant of Environment Clearances:

The State Environmental Impact Assessment Authority (SEIAA) and State Expert Appraisal Committee (SEAC) constituted by the Central Government in consultation with UT Administration issues environment clearance to the major projects scheduled under the Environment Impact Assessment. (EIA) notification 2006. Last year, the committees has granted Environment Clearances to the project related to mining of stone quarries and for creating the facility for Offshore Drilling of Exploratory wells at Andaman Basin, Andaman and Nicobar Islands.





## MONITORING OF AIR QUALITY PARAMETERS:

### Manual Monitoring Stations

The 3 No. of Respiratory dust samplers' stations namely at Aberdeen Bazaar, Brookshabad and Chouldari under National Air Quality Monitoring Programme (NAMP) are installed to monitor the air quality .

The ambient air quality data with respect to PM<sub>10</sub> & PM<sub>2.5</sub> are being monitored using a Respiratory Dust Sampler on a 24-hour basis with 8 hourly intervals. The monitoring is being carried out twice a week per station as per the CPCB protocol. The average PM<sub>10</sub> concentration observed varies from 20 to 30  $\mu\text{g}/\text{m}^3$ , while PM<sub>2.5</sub> varies from 6 to 10  $\mu\text{g}/\text{m}^3$ .

### Monitoring during Diwali Festival

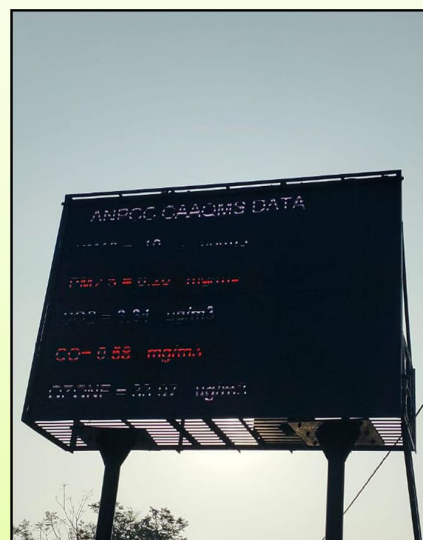
The Andaman & Nicobar Pollution Control Committee (ANPCC) also conducts short-term monitoring of various parameters for 15 days during the Diwali festival. The ANPCC sets up two Ambient Air Quality Monitoring Stations at the SVPSC office in Aberdeen Bazaar and at Dollygunj (near Shiv Temple) every year during the Diwali festival. The Ambient Air Quality is calculated by Air Quality Index (AQI). The AQI has six categories from Good to Severe to define Air Quality and to make people understand the severity of the Air Pollution. The AQI values recorded during the Diwali festival over the past three years are given below:



Location	AQI Value		
	2024	2023	2022
Aberdeen Bazar	69	36	50
Dollygunj	57	33	49
Air Quality Index	(50-100)	(0-50)	(0-50)
Category	Satisfactory	Good	Good

### Continuous Ambient Air Quality Monitoring System (CAAQMS)

Recognizing the need to monitor real time and peak concentration levels of pollutants, The ANPCC has also installed a Continuous Ambient Air Quality Monitoring System(CAAQMS) station at VIP Road Junglighat, Sri Vijay Puram on September 25, 2024 to monitor the real time data: is capable of monitoring real-time data on air pollutants including CO, SO<sub>2</sub>, NO<sub>x</sub>, NH<sub>3</sub>, O<sub>3</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>, as well as Meteorological data. The data from the CAAQMS will be transmitted to a local server at ANPCC, Department of Science and Technology, Dollygunj and to the Central Server at CPCB, New Delhi. To ensure public accessibility, two digital boards, sized 8x12 feet and 4x7 feet, have been installed at Aberdeen Bazaar and the entrance of ITF Ground, VIP Road to display real-time data. The data monitored through CAAQMS installed at Sri Vijaya Puram shows that the AQI value varies from 50 to 100 which falls under Good to satisfactory level.





# SINGLE USE PLASTIC:



In compliance with GOI directions, the Andaman and Nicobar Administration has banned single-use plastic. Frequent inspections are conducted with local bodies to raise awareness and penalize violators through surprise checks. These efforts aim to ensure environmental protection and strict enforcement of the ban, promoting a cleaner and more sustainable region

## Management of e waste and hazardous waste:

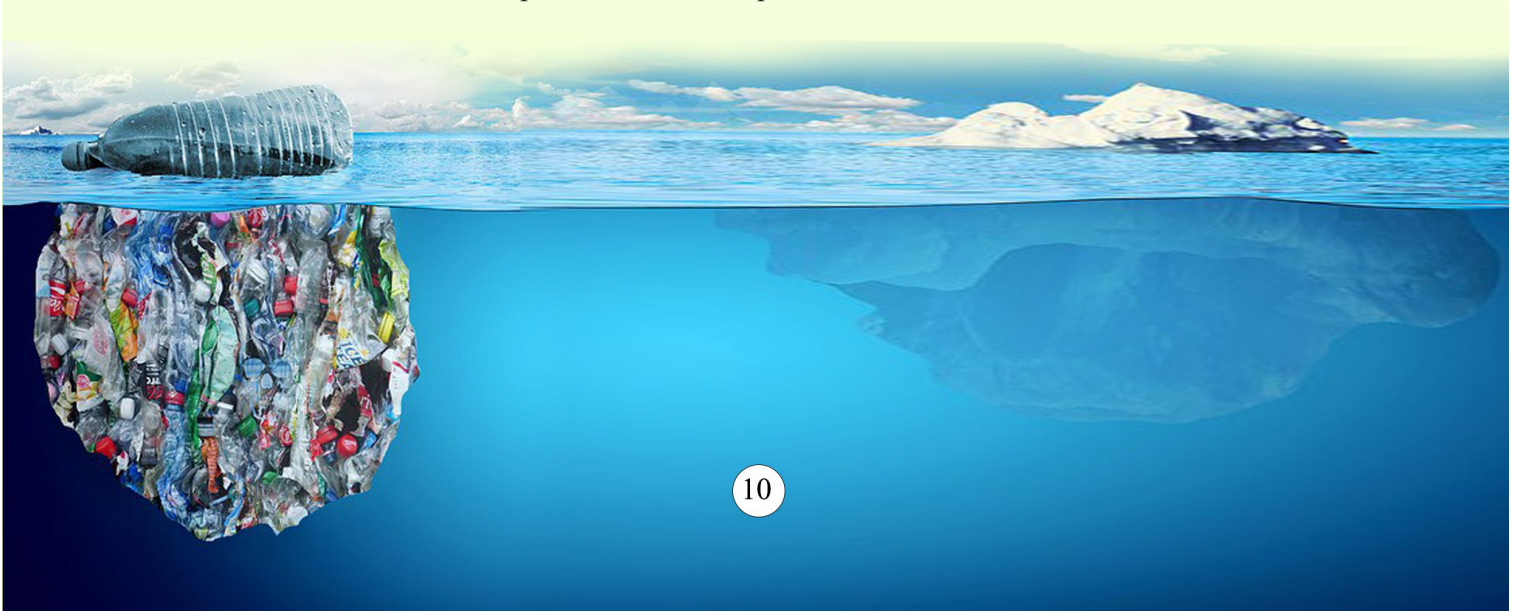
The ANPCC grants the authorisation for collection and transportation of e waste and hazardous waste from these islands to mainland and ensures that waste is properly routed to recycling units or reused, by sharing the information with the relevant State Pollution Control Boards.



## NGT matters :

The National Green Tribunal (NGT) is a specialized environmental court in India, established in 2010 to provide swift and effective justice for environmental issues. The NGT has jurisdiction over various environmental concerns, including air and water pollution, deforestation, and wildlife conservation. Through its landmark judgments, the NGT promotes environmental awareness, accountability, and sustainable development in India.

Notably, the Andaman and Nicobar Pollution Control Committee (ANPCC) has effectively complied with NGT directions, ensuring environmental compliance and promoting awareness among students to foster a sustainable consciousness and inspire eco-stewardship.





## ACTIVITIES:

### 1. Transportation of waste to mainland for recycling:

Regular inspections are conducted to grant NOC for transportation of glass waste, plastic waste, paper & cardboard waste.



### 2. Awareness program:

Awareness program conducted at Rangachang Schools, South Andaman and different school of North & Middle Andaman by the ANCC officials islands a model for ecological balance and scientific innovation.



## Our Commitment to a Sustainable Future

Through continuous monitoring, proactive policymaking, and community engagement, DST and ANPCC are dedicated to fostering scientific advancements and environmental sustainability in the Andaman & Nicobar Islands. We invite stakeholders, researchers, and the general public to join hands in making our islands a model for ecological balance and scientific innovation.



# CONTROL NOISE POLLUTION



Issued in Public Interest  
by

**DEPARTMENT OF SCIENCE & TECHNOLOGY,  
ANDAMAN NICOBAR POLLUTION CONTROL COMMITTEE  
Andaman and Nicobar Administration**



# BANNED

## SINGLE USE PLASTIC ITEMS



Single-use, plastic bodied use & throw Pens, Ear Buds with Plastic StickWraps, Plastic Straws, Plastic Bodied Cigarette Lighters



Single-use Plastic/Polystyrene/Styrofoam Plates / Bowls / Tumblers / Cups / Cutleries and related table wares



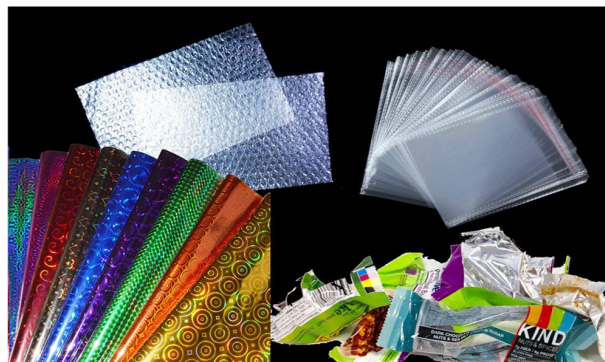
PET Bottles-Water & Beverages, including alcohol < 2L (Less than 2 Liters)



Polythene/Plastic/Polypropylene Carry Bags including all types of blended carry bags (with or without handles)



Sachets (Shampoo, Conditioner and similar personal care items, Mouth-freshener, Pickle/Jam/Sauces, Spices, condiments, etc.)



Plastic Sheet / Pouches (transparent/coloured/layered) used for packaging of Water, Cooked Food, Gift items, etc. including Bubble-Wraps

Issued in Public Interest  
by

**DEPARTMENT OF SCIENCE & TECHNOLOGY,  
ANDAMAN NICOBAR POLLUTION CONTROL COMMITTEE  
Andaman and Nicobar Administration**



## 6 TIPS TO BREAK THE PLASTIC HABIT

- |  |   |
|--|---|
| <b>1</b> <br>BYO shopping bag.                                    | <b>2</b> <br>Carry a reusable bottle and mug.  |
| <b>3</b> <br>Avoid single-use cutlery. Invest in a travel spork! | <b>4</b> <br>Say "no straw please" when you're out to eat.                            |
| <b>5</b> <br>Skip the plastic bags.                             | <b>6</b> <br>Ask for leftovers to be wrapped in foil or your own reusable container. |



## SAVE OUR PLANET STOP SINGLE USE PLASTIC

#REFUSE/PLASTIC#  
SINGLE USE PLASTICS  
#REFUSE/PLASTIC#



### ALTERNATIVES TO PLASTIC BAGS



### ECO FRIENDLY DISPOSABLE ITEMS

Enlighten one person a day  
to keep the plastic pollution away

An initiative of:

**DEPARTMENT OF SCIENCE & TECHNOLOGY,  
ANDAMAN NICOBAR POLLUTION CONTROL COMMITTEE  
Andaman and Nicobar Administration**

**Dollygunj, Sri Vijaya Puram- 744103 Tel No. 250370**

**Please send your suggestions and feedback at E-mail: [dstpcc-andamans@nic.in](mailto:dstpcc-andamans@nic.in)**