

ANNUAL REPORT

2023
2024



Pollution Control Board, Assam

Bamunimaidam, Guwahati - 21

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Annual Report 2023-24: The Annual Report 2023-24 of the Pollution Control Board, Assam is published by Dr. Shantanu Kumar Dutta, Member Secretary, under the guidance of Dr. Arup Kumar Misra, Chairman of the Board. This informative Report highlights the activities of the Board during the financial years 2023-24.

Text Editing: Kanteswar Kalita



ড° হিমন্ত বিশ্ব শৰ্মা
Dr. Himanta Biswa Sarma

মুখ্যমন্ত্রী, অসম
Chief Minister, Assam
CMS: 7/2023/1757
Dispur
6 Ahar, 1431 Bhaskarabda
21st June, 2024

MESSAGE

I am delighted to extend my warmest greetings and commendations to the Pollution Control Board, Assam, as they present their Annual Report for 2023-24. This comprehensive document highlights the Board's relentless efforts and commitment to safeguarding our environment.

The Annual Report details the multifaceted activities of the Board, including the establishment of an extensive network to monitor air, water, and noise pollution. It showcases significant advancements in waste management and various innovative approaches aimed at mitigating environmental degradation.

A key highlight of the report is the Board's proactive engagement with local communities through awareness campaigns and outreach programmes. These initiatives have played a crucial role in educating the public on environmental issues and fostering a collective responsibility towards preserving our natural resources.

Furthermore, I am pleased to note the Board's transition to an e-office management system. This transformation not only enhances operational efficiency but also aligns with our broader goals of sustainable and eco-friendly governance.

The achievements outlined in this report are a testament to the dedication and hard work of the Pollution Control Board, Assam. I extend my heartfelt congratulations to the entire team for their exemplary contributions. Let us continue to work together towards a cleaner, greener, and healthier Assam.


(Dr. Himanta Biswa Sarma)



চন্দ্রমোহন পাটোৱাৰী

মন্ত্ৰী

পৰিবেশ আৰু বন,
এক্ট ইষ্ট পলিছী এফেয়াৰ্ছ
সংখ্যালঘু কল্যাণ বিভাগ, অসম

Chandra Mohan Patowary

Minister

Environment & Forests Department
Act East Policy Affairs Department
Welfare of Minorities Department

Government of Assam

Dispur

10.06.2024

I am happy to know that the Pollution Control Board, Assam is coming up with the publication of its Annual Report for the financial year 2023-2024 highlighting its activities during the period.

The Pollution Control Board, Assam being an autonomous statutory organization under the Ministry of Environment & Forests, Govt. of Assam, has the mandate to maintain the wholesomeness of water and air environment in the State. In accomplishing the mandates, the Board has been regularly monitoring the water and air quality at various locations across the State, regulating the industrial activities and other development projects under the provisions of Acts and Rules.

The Annual Report is an important document containing large volume of analytical data on air quality, water quality, noise levels, waste management etc. I hope that this publication will be a useful guide for all engaged in and interested in environmental data and environmental quality monitoring. I extend my best wishes to all stakeholders for this endeavour.

(Chandra Mohan Patowary)

MESSAGE

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MESSAGE

I am glad to know that the Pollution Control Board, Assam is going to publish its Annual Report-2023-2024. This Report is an important document containing large volume of analytical data on air quality, water quality, noise levels, waste management and records of outreach programme along with the highlight of other activities of the Board.

The Pollution Control Board Assam is an autonomous statutory organization under the Department of Environment & Forests, Govt. of Assam with the mandate to maintain the wholesomeness of water and air environment in the state. In accomplishing the mandates, the Board has established a wide network for regularly monitoring of water and air quality across the state and disseminating the monitoring data in public domain that can serve as the baseline information for environmental planning and pollution management.

I feel delighted at the way the Board is facilitating the industrial activities and other development projects through a complete online system under EoDB Portal and thereby promoting sustainable industrial growth in the state. Encouragingly, the Board is handling its social media platforms quite efficiently along with the other awareness raising activities among the common masses on different environmental issues, which will help in developing a sense of responsibility and public involvement in environmental protection.

I extend my best wishes to the Board for successful publication of this Annual Report.

(Ravi S. Prasad)



Dr. Arup Kumar Misra

Chairman

Pollution Control Board, Assam
(Department of Environment & Forests,
Govt. of Assam)

ড° অৰুপ কুমাৰ মিশ্ৰ

অধ্যক্ষ, অসম প্ৰদূষণ নিয়ন্ত্ৰণ পৰিষদ

(অসম চৰকাৰৰ বন আৰু পৰিবেশ বিভাগ)

FOREWORD

It gives me immense pleasure to present before you the Annual Report of Pollution Control Board, Assam for the Session 2023–2024. This has been a really eventful year with very hectic activities for the Board; marching gallantly towards the Golden Jubilee Year. Like the two previous years, number of industries of all denominations increased under the ambit of PCBA this year too bringing in more responsibility and accountability along with it. IT-based administrative reforms have been almost completed; Regional offices have been strengthened; PCBA has become outreach-partners to many institutions and NGOs; and in the process, PCBA has become one of the best performing Boards of India in implementing National Missions like National Clean Air Program (NCAP), National Ambient Air Monitoring Program (NAMP), National Water Pollution Monitoring Program (NWMP), Rejuvenation of Polluted River Stretches and most important, Mission LiFE constituting a holistic package of environmental monitoring and stewardship.

The Pollution Control Board, Assam came into existence on 02 June 1975, when concept of pollution control was very limited and fragmented in scope and far away from social development narrative. Environmental awareness was almost absent in the public domain. But suddenly due to massive rise in population, resulting in huge pressure on our finite natural resources and infrastructure, the scenario changed with occasional incidents of shocks and perturbations induced by nature. But real change came post Stockholm Summit in 1972 and subsequent formation of United Nations Environment Program (UNEP), when the world started taking stock of the “environment versus development” paradigm. Organised pollution control activities and regulatory regimes started in India with adoption of Water Act 1974 by the Parliament. The

Central and State Boards of pollution control jumped into action since 1974 or 1975 at Central and State levels. We, in Assam, received mandate to maintain the wholesomeness of the quality of water, air, land and other endowments. It has gone beyond the stipulated duties of keeping the industries and service sectors under strict vigilance, to initiate many important programs and projects to disseminate environmental data, support the State government, create mass awareness, and catalyse capacity building among students and youth to safeguard the pristine environment of Assam.

I am very happy to inform you that PCBA has made its presence felt in many such platforms which were never thought of earlier. Last year's INSORE Conference between India and Croatia, held at Guwahati, was a landmark event for us. Our participation in International Conferences in New Delhi, Mumbai, and Hyderabad were highly appreciated by our partner organisers. Many Universities, Colleges and Schools of Assam are eagerly signing MoUs with PCBA for mutual beneficial projects. PCBA single-handedly steered many campaigns on science and technology communication, solid waste management, plastic waste management, biomedical waste awareness, hazardous waste appreciation programs in the year gone by. This is not an exhaustive list; many more were there and much more are on the anvil. But, for anything to be done at a greater scale and have even greater impact on stakeholders we need your support, participation, advice and goodwill for the sake of the environment.



(Dr. Arup Kumar Misra)

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CHAPTER

I

Introduction

1. Introduction

The Pollution Control Board, Assam is an autonomous statutory organization constituted by the Government of Assam on 2nd June, 1975 under the provision of Section 4 of the Water (Prevention & Control of Pollution) Act 1974 as 'Board for Prevention and Control of Water Pollution, Assam'. The name of the Board was further amended to Pollution Control Board, Assam (PCBA) by the Government of Assam vide Notification No.STE.224/86/138 dated 12th March, 1992.

The Board with its Head Office at Bamunimaidam, Guwahati, has eleven (11) Regional Laboratories cum Offices (RLO) / Regional Offices (RO) located at – Dibrugarh, Sivasagar, Golaghat, Tezpur, Nagaon, Silchar, Bongaigaon, Guwahati, Kamrup, South Bank Chaygaon and Tinsukia. The Central Laboratory of the Board is located at the Head Office building of the Board, whereas the four (4) Regional Laboratories are functioning from the Regional Offices located at – Sivasagar, Tezpur, Silchar and Bongaigaon.

The Board was initially constituted to implement the provisions of the Water (Prevention & Control of Pollution) Act, 1974 within the territorial jurisdiction of Assam. In the subsequent period, it has been entrusted with the added responsibility of implementing the Air (Prevention and Control) Act, 1981 and other environmental Acts and Rules. At present, the Board is empowered with the provisions of the following Acts and Rules –

1.1. Water (Prevention and Control of Pollution) Act, 1974

- Rules framed under the Water (Prevention & Control of Pollution) Act, 1974 (Assam Rules-1977) and Amendment, 1992
- The Water (Prevention & Control of Pollution) Amendment Act, 1978
- The Water (Prevention & Control of Pollution) Amendment Act, 1988

1.2. Air (Prevention and Control of Pollution) Act, 1981

- The Air (Prevention & Control of Pollution) Assam Rule, 1991, framed under Air (Prevention & Control of Pollution) Act, 1981

- The Air (Prevention & Control of Pollution) Amendment Act, 1987

1.3. The Environment (Protection) Act, 1986

- The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 and its Amendments
- The Manufacture, Use, Import, Export and Storage of Hazardous Micro-organisms, Genetically Engineered Organisms or Cells Rules, 1989
- The Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996
- Ozone Depleting Substances (Regulation) Rules, 2000
- Environmental Impact Assessment Notification, 2006 with amendment in 2009
- The Noise Pollution (Regulation & Control) (Amendment) Rules, 2010
- The Environment (Protection) Amendment Rules, 2011
- The Bio-medical Waste Management Rules, 2016
- The Solid Waste Management Rules, 2016
- Construction and Demolition Waste Management Rules, 2016
- Wetlands (Conservation and Management) Rules, 2017
- The Plastic Waste Management Rules, 2016 with amendments in 2021
- The Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 with amendments in 2022
- Batteries Waste Management Rules, 2022
- E-Waste Management Rules, 2022 as amended till date

1.4. The Public Liability Insurance Act, 1991

- The Public Liability Insurance Rules, 1991 and Rules made thereunder

1.5. The National Green Tribunal Act, 2010

2. Functions of the State Board

The Pollution Control Board, Assam has been performing diversified activities within the territorial jurisdiction of the State under the provisions of the Acts and Rules. The principal mandate of the Board is to work towards a pollution-free environment and to promote sustainable industrial growth in the State. The main functions of PCBA, as spelt out in the Rules framed under the Water (Prevention & Control of Pollution) Act, 1974 (Assam Rules-1977) and Amendment, 1992 and the Air (Prevention & Control of Pollution) Assam Rules, 1991, framed under Air (Prevention & Control of Pollution) Act, 1981 are –

- To plan comprehensive programme for the prevention, control and abatement of water and air pollution in the State and to secure the execution thereof;
- To advise the State Government on any other matter concerning the prevention, control or abatement of water pollution and air pollution;

- To collect and disseminate information relating to water pollution and air pollution and the prevention, control or abatement thereof;
- To encourage, conduct and participate in investigations and research relating to problems of water pollution and prevention, control or abatement of water pollution;
- To collaborate with the Central Pollution Control Board in organizing the training of persons engaged in or to be engaged in programmes relating to prevention, control or abatement of water pollution and air pollution; and to organize mass education programmes relating thereto;
- To inspect sewage or trade effluents, works and plants for the treatment of sewage and trade effluents and to review plans, specifications or other data relating to plants set up for the treatment of water, works for the purification thereof and the system for the disposal of sewage or trade effluents or in connection with the grant of any consent as required under the Act;
- To inspect air pollution control areas, at such intervals as it may think necessary, assess the quality of air therein and take steps for the prevention, control or abatement of air pollution in such areas;
- To lay down, modify effluent standards for the sewage and trade effluents and based on the quality of receiving waters (not being water in an inter-State stream), resulting from the discharge of effluents and to classify water quality status of the State;
- To lay down emission standards, in consultation with the Central Pollution Control Board and having regard to the standards for the quality of air laid down by the Central Board, standards for emission of air pollutants into the atmosphere from the industrial plants and automobiles or for the discharge of any air pollution into the atmosphere, from any other source whatsoever not being a ship or an aircraft;
- To evolve economical and reliable methods of treatment of sewage and trade effluents, having regard to the peculiar conditions of soils, climate and water resources of different regions and more specifically the prevailing flow characteristics of water in streams and wells which render it impossible to attain even the minimum degree of dilution;
- To evolve methods of utilization of treated sewage and suitably treated trade effluents in agriculture;
- To evolve efficient methods of disposal of sewage and trade effluents on land, as are necessary on account of the predominant conditions of scant stream flows that do not provide for major part of the year the minimum degree of dilution;
- To lay down standards of treatment of sewage and trade effluents to be discharged into any particular stream, taking into account whether the minimum dilution is available in that stream and the tolerance limits of pollution is in permissible limit in the water of the stream, after the discharge of such effluents;
- To make, vary or revoke any order:
 - For the prevention, control or abatement of discharges of waste into streams or wells;
 - Requiring any person concerned to construct new system for the disposal of sewage and trade effluents or to modify, alter or extend any such existing system or to adopt such remedial measures as are necessary to prevent, control or abate water pollution;
- To lay down effluent standards to be complied with, while causing discharge of sewage or sludge or both and to lay down or modify annual effluent standards for the sewage and trade effluents;

- To advise the State Government with respect to the location of any industry which is likely to pollute a stream or well and cause air pollution;
- To perform such other functions as may be prescribed from time to time or as may be entrusted to it by the Central Pollution Control Board or the State Government;
- Issue of consent to establish/consent to operate to industries and other development projects and authorization under various Environment Protection Rules;
- Environmental education to public, students and others, and publication of mass-education materials;
- To establish or to recognize laboratories for performing functions under the Acts and Rules.

Enforcement of the provisions of the various rules and monitoring thereof made under Water, Air and Environment Protection Acts.

CHAPTER II

Constitution of the Board

The Pollution Control Board, Assam was first constituted by the Government of Assam on 2nd June, 1975 vide Notification No. HLB.264/74/Pt.1, dated 31st May, 1975 under the provisions of Section 4 of Water (Prevention and Control of Pollution) Act, 1974. The Pollution Control Board, Assam is governed by an apex policy making body, called – ‘Board’. The general tenure of the ‘Board’ is 3 years and it is the prerogative of the Government of Assam to constitute the ‘Board’ from time to time. The present ‘Board’ of PCBA was constituted by the Government vide its Notification No.ENG.1/2017/Pt-VII/74 dated 22nd December, 2021. The ‘Board’ comprises of a Chairman, a Member Secretary and 15 other members nominated by the Government of Assam.

2.1 Chairman

The Chairman of the Board is to be nominated by the State Government after being recommended by the selection committee headed by the Chief Secretary of the State. A person shall be eligible to be nominated as the Chairman of the Board possessing Degree in Engineering/Technology in Environmental Engineering or an equivalent degree thereto, Post Graduate in Environmental Engineering/two years MSc in Environmental Sciences/Environmental Management and has special Knowledge and 15 years practical experience relating to industrial pollution control, mitigation, water treatment or air pollution control devices and has rendered at least 25 years of services; or has been an officer under the Central Government or State Government or Public Sector Undertaking or a University or autonomous body or statutory body, and holds or held an analogous post on regular basis in the parent cadre or department in the pay scale as prescribed for Commissioner and Special Secretary to the Government of Assam; or has been in an All India Service or in any Civil Service of the State of Assam, holding or held the post of Commissioner and Special Secretary to the Government of Assam or its equivalent post on regular basis, and possesses a Master’s Degree in Science or Bachelor’s degree in Engineering and has knowledge and experience of at least 5 years in areas related to environment protection and industrial pollution control; and he/she is a resident of Assam for a period not less than 15 years.

2.2 Member Secretary

A full-time Member Secretary, possesses the qualification of Bachelor's Degree in Engineering or Master's Degree in Environmental/ Chemical/ Civil/ Biological Science with minimum of 10 years of experience in the field of industrial pollution control for environmental protection; or a person is in an All India Service or in any State Civil Service of the State of Assam, holding the post of Secretary to the Government of Assam or its equivalent post; and possess a Master's Degree in Science or Bachelor's degree in Engineering and has experience of at least 5 years in industrial pollution control for environmental protection and is a resident of Assam for a period of not less than 15 years is eligible for selection for the appointment as the Member Secretary.

The selection of the Member Secretary is based on the recommendation of a Selection Committee headed by the Senior-most Secretary of the Department of Environment and Forests in the Government of Assam.

2.3 Board Members

The following categories of Officials/ Non-Officials/ Experts/ Persons shall be eligible for nomination as Member of the Board –

- Government Officials not below the rank of Joint Secretary to the Government of Assam or equivalent as Government of Assam representatives from different Government Departments having concern to pollution control and management.
- Persons associated/working under local authorities functioning within the State as representative of local authorities.
- Experts in agriculture, fishery, industry, education related to environment or any other field, which in the opinion of the Government is important for pollution control management as non-official member.
- Managing Directors of companies or corporations owned, controlled managed by the Government.

The list of 'Board' members and Organizational Structure of the Board as on 31st March, 2024 is annexed herewith in *Annexure – I* and *Annexure – II*, respectively.

CHAPTER

III

Meetings of the Board

3. Meetings of the Board

The 'Board' is the apex policy making authority of the PCBA. All important decisions of the Board are taken in the meeting of the 'Board'. During the financial year 2023-2024, two (2) 'Board' Meetings were held i.e. 105th and 106th 'Board Meeting'. The important decisions taken in the 'Board' Meetings are summarized below –

3.1 'Board Meeting' No. 105: Important Decisions Taken

The 105th Board Meeting of PCBA, which was held on 14th June, 2023 in the Conference Hall of the Board adopted the following resolutions –

- The 'Board' unanimously confirmed the minutes of the 104th 'Board' Meeting.
- The Board after discussion on the action taken report on the minutes of the 104th Board Meeting suggested the following:
 - i) The amendment of the Pollution Control Board, Assam (Employees' Service) Regulation-2012 should be expedited.
 - ii) Possibilities of setting up of plastic bottle collection centres in more locations, like 'Kamakhya centre', should be explored.
 - iii) The unauthorised brick kiln industries should be brought under the ambit of the Pollution Control Board urgently. Possibilities of linking the 'Consent' with the GST and other such mechanism should be examined and explored.
- The Board approved Rs. 4644.58 lakh for expenditure for the year 2023-24.
- The Board unanimously accorded *post fact* approval for Rs.1.0 Cr. that has been contributed to the Chief Minister's Relief Fund on 07th June, 2023.
- The Board approved the proposal of establishment of two (2) new Regional Offices, one at either Boko or Chaygaon and the other at Tinsukia for administrative convenience and efficient management of

the Board's activities. The Board also accorded approval on rationalisation of a number of industries under Kamrup, Bongaigaon, Dibrugarh and Tezpur Regional Offices to distinctly earmark the jurisdictions of the two new Regional Offices.

- The Board unanimously decided to accord CONSENT to the M/S North East Onco Care, 11th Mile, Amerigog, Jorabat, Guwahati, Assam with concrete mechanism of pollution control including recycling of effluent water, etc. The Board also decided to direct the industry not to discharge any effluent outside the premises.
- The Board accepted the proposal for adoption of a Pension Scheme for the employees of Pollution Control Board, Assam, and opined that the Pension Scheme as placed before the Board requires detailed examination. Accordingly, the Board constituted a three-member committee with the following members to prepare a Pension Scheme after examining all aspects and submit the same on or before 31st July, 2023 to the Chairman, Pollution Control Board for placing the same in the next Board meeting.

Members of the 3 member committee:

- i) Dr. Shantanu Dutta, Member Secretary, PCBA
 - ii) Shri Tarun Ch. Saharia, Director, Public Enterprise Department of the Industries & Commerce Department
 - iii) Shri Arup Borpujary, Secretary, Laghu Udyog Bharati
- The Board after detailed discussion approved the proposal for adaptation of the Environment (Protection) Amendment Rules, 2022 notified by the Govt. of India vide No. Q-15017/35/2007-CPW dtd. 22.02.2022 – major provisions of which include adaptation of Zig-Zag Technology for brick production; siting criteria for brick kilns; etc., and revision of the 'Guidelines for Brick Manufacturing Industries' – published by PCBA in 2013, under the provision of recent notification.

The Board further suggested that the Department of Industries and Commerce, Government of Assam should be intimated about the Rules and Guidelines as the department is intimately associated with the brick kilns.

- The Board approved the proposal for imposition of 100% additional CTE fee as penalty while issuing consent to such industries which are set up without prior permission of the Board.
- The Board approved the proposal for rationalisation of receiving application for efficient management and issuing of Consent to – (i) tea gardens / factories with validity till 31st December instead of the present practice of 31st March, and (ii) brick industries with validity till 30th June of next financial year in place of the present practice of issuing Consent with validity till 31st March.

3.2 'Board Meeting' No. 106: Important Decisions Taken

The 106th Board Meeting of PCBA, which was held on 2nd March, 2024 in the Conference Hall of NEDFi House, adopted the following resolutions –

- The 'Board' unanimously confirmed the minutes of the 105th 'Board' Meeting. The action taken report on the decisions of the 105th Board was presented before the Board. The Board was also apprised by the Member Secretary about the successful completion of Recruitment of 74 officers and staff in the Board.

- The Board approved the budget for the year 2024-2025 with expenditure amount of Rs. 5,089.39 Lakh and estimated budget income of Rs. 5,100.00 Lakh.
- The Board accorded approval to the “Pollution Control Board, Assam (Employees’) Retirement Benefit Regulations-2024” and requested the Chairman to place the “Pollution Control Board, Assam (Employees’) Retirement Benefit Regulations-2024” before the Government for information. The salient features of the Regulation are as follows –
 - i) the Retirement Benefit will be limited to the 177 numbers of present regular employees of the Board;
 - ii) the Retirement Benefit shall be framed at 25% BP+DA, which is exactly half of the existing Old Pension Scheme (OPS) applicable to Govt. Employees;
 - iii) the family pension is proposed as 15% BP+DA, which is exactly half of the existing Old Pension Scheme (OPS);
 - iv) the Retirement Benefit shall be subjected to a maximum benefit of Rs. 50,000/- and minimum of Rs. 15,000/-;
 - v) it will be optional whether an employee subscribes to the scheme or not.

The Board also decided that for the new appointees, the Board shall follow the NPS as followed by the State Government.

- The Board approved the proposal for mandatory requirement of Consent to Operate (CTO), besides Consent to Establish (CTE), from commencement of building construction under Building Infrastructure Projects / Real Estate Projects with CTO fee based on the total project cost under the provisions of the Water Act and Air Act in force.
- The Board decided to realize one time CTE fee and CTO fee from Dental Clinics, Restaurants, Diagnostic Centres, Automobile / Vehicle Servicing Centres, etc taking 2021-2022 as the base year to bring the units under the purview of PCBA accordingly.
- The Board approved the amount of Rs.24,63,854/- including GST against the publicity work carried out for Amrit Brikshya Andolan of the Government of Assam.
- The Board approved the proposal of enhancement of Fixed Pay to Rs. 15,900/- per month with Dearness Allowance (DA), which will undergo revision whenever pay scale changes based on enhancement of DA and recommendation of Pay Commission along with Medical Allowances of Rs. 600/- per month with similar provision as in the Environment and Forest Department Notification number ECF No. 330580/141 Dated 1st January, 2024 to the Fixed Pay workers who have completed 3 years of service in the Pollution Control Board, Assam as on 01-04-2024. The Board also decided that posts are personal to the respective fixed pay workers. The Board furthermore decided that henceforth no such casual employee will be engaged by the Board.
- The Board accorded approval for enhancement of upper limit of House Building Advance from existing Rs. 15,00,000/- to Rs. 30,00,000/- without changing the existing 4% interest rate per annum.

CHAPTER IV

Committees Constituted by the Board and their Activities

4.1. Committee to Examine the Proposed Post-retirement Benefit (Pension) Scheme for the Employees of the Board

The 104th Board Meeting of PCBA constituted a committee with three (3) members from among the members of the Board to examine all aspects of the proposal of the Board for adoption of a Post-retirement Benefit (Pension) Scheme for the employees of Pollution Control Board, Assam, and submit its report on or before 31st July, 2023 to the Chairman, Pollution Control Board for placing the same in the next Board Meeting.

Members Committee:

- i) Dr. Shantanu Dutta, Member Secretary, PCBA
- ii) Shri Tarun Ch. Saharia, Director, Public Enterprise Department of Industries & Commerce Department
- iii) Shri Arup Borpujary, Secretary, Laghu Udyog Bharati

4.2. Technical Expert Committee (TEC)

In pursuance of the Hon'ble NGT orders in the matter of O.A. No. 502/2023 and subsequent implementation of the Framework on identification of Materials Generated from Industrial Processes as Wastes or By-Products, a Technical Expert Committee was constituted by the PCBA to evaluate proposals/ applications received by the Board for identification of materials as by-Products. The members of the Committee are –

- | | | |
|---|-----|---------------|
| 1. Dr. Shantanu Kumar Dutta, Member Secretary
Pollution Control Board, Assam | ... | Chairman |
| 2. Shri Anil C Ranveer, Scientist – E, CPCB, Shillong | ... | Expert Member |
| 3. Shri Pankaj Kumar Dutta, Executive Engineer
Pollution Control Board, Assam | ... | Member |
| 4. Shri Pralay Kumar Das, Executive Environmental Scientist
Pollution Control Board, Assam | ... | Member |

5. Shri B. L. Gogoi, CM, HSE, IOCL Guwahati Refinery
(Industry – Representative) ... Member
6. Shri Sanjiv Kumar, Senior Vice Principal-Business
Development, Re-Sustainability Limited ... Member
(Representative of HWTSDF)
7. Shri Ankuran Pathak, Asst. Executive Engineer ... Member
Pollution Control Board, Assam

The Committee would undertake the evaluation of the information submitted by the applicants for identification of Materials as Wastes or By-Products including Pre-feasibility Report. Environmental Impact and Risk Assessment Studies as applicable and make necessary recommendations for acceptance or rejection of all such applications. The Committee will meet as and when called for in preferred mode to undertake necessary assessments.

CHAPTER V**Water, Air and Noise
Monitoring****5. Monitoring Infrastructure**

The Board is equipped with ISO 9001:2015 and ISO 45001:2018 certified state-of-the-art Central Laboratory located at Head Office Building, Bamunimaidam, Guwahati, supported by four (4) Regional Laboratories located at – Sivasagar; Tezpur; Silchar and Bongaigaon, to carry out water, air and noise monitoring across the State.

The Central Laboratory of the Board has been assessed and accredited by the National Accreditation Board for Testing and Calibration Laboratories (NABL) vide Certificate No.: TC-11384, having issue date – 10.02.2023 and valid till 09.02.2025. The scope of the NABL accreditation covers 69 Air and Water Quality parameters.

The Central Laboratory of the Board is also recognized under Sections 12 and 13 of Environment (Protection) Act, 1986 since 2002.

The last year had been the year of modernisation, infrastructure development and manpower capacity building to augment the functional ability of the laboratory services of the Board to address to the growing environmental issues and to promote sustainable environmental management practices. Some of the important laboratory infrastructure development activities taken up by the Board are –

- Procurement of sophisticated equipment and tools, for example – GC-MS, ICP-OES, IC
- Modernisation of Laboratory as per the guidelines of the National Accreditation Board for Testing and Calibration Laboratories (NABL)
- Manpower capacity building through recruitment of scientific staff, SRF and JRF arrangement for training programme.

5.1 Water Quality Monitoring

The Pollution Control Board, Assam is carrying out its mandatory responsibility of monitoring of the wholesomeness of water resources in the State. The Board is regularly monitoring the water quality of most of the surface water bodies, viz – rivers; beels; wetlands; ponds/pukhuries, on monthly basis and sub-surface

water on half-yearly basis covering most of the districts of the State under National Water Quality Monitoring Programme (NWMP) of the Central Pollution Control Board (CPCB).

Besides the monitoring under NWMP, the Board has also been carrying out some special monitoring, like – monitoring during Ambubashi Mela at Maa Kamakhya Temple in Guwahati City; monitoring at different idol immersion sites before and during immersion of Idols of Durga Puja across the State; monitoring for compliance checking of the industries; monitoring against public complaints; and other need based monitoring.

5.1.1 Implementing the National Water Quality Monitoring Programme (NWMP)

The Board is implementing the National Water Quality Monitoring Programme (NWMP) of Central Pollution Control Board (CPCB) in the State and regularly monitoring the water quality of most of the surface water bodies, viz – rivers; beels; wetlands; ponds/pukhuries, on monthly basis and sub-surface water on half-yearly basis covering most of the districts of Assam.

At present the Board has been regularly monitoring water quality at 237 locations across the State of which 170 locations for surface water and 67 for sub-surface water. It is pertinent to note that due to the continuous pursuance by the PCBA, the CPCB has sanctioned numbers of new water quality monitoring stations in the last two (2) years, which enabled the Board to cover large number of water bodies under its water quality monitoring network in the State. Furthermore, the Board has also sent proposal to Central Pollution Control Board, Delhi for sanctioning of another 13 new monitoring stations under NWMP covering lakes/wetlands and ground water sources in the State.

5.1.1.1 Parameters Monitored

The water samples are analysed for 8 core parameters, 16 other general parameters, 6 heavy metals (twice in a year) as per the protocol of CPCB. The list of parameters analysed under water quality monitoring in Assam under NWMP are given in Table No.5.1.

Table No. 5.1: List of Parameters Observed under National Water Quality Monitoring Programme, Assam

Sl. No.	Parameters	
A	Core Parameters	1. pH 2. Temperature (0C) 3. Conductivity (μ S/cm) 4. Dissolved Oxygen (mg/l) 5. BOD (mg/l) 6. Nitrate (mg/l) 7. Fecal Coliform (MPN/100ml) 8. Total Coliform (MPN/100ml).
B	General Parameters	1. Turbidity (NTU) 2. Chloride as Cl (mg/l) 3. COD (mg/l) 4. Phosphate as P (mg/l) 5. Sulphate as SO ₄ (mg/l) 6. Total Alkalinity (mg/l) 7. Hardness as CaCO ₃ (mg/l) 8. Calcium as CaCO ₃ (mg/l) 9. Magnesium as CaCO ₃ (mg/l) 10. Total Dissolved Solids (mg/l) 11. Total Fixed Dissolved Solids (mg/l) 12. Total Suspended Solids (mg/l) 13. Sodium (mg/l) 14. Potassium (mg/l) 15. Boron (mg/l) 16. Fluoride (mg/l).
C	Heavy Metals	1. Zinc 2. Copper 3. Chromium as Cr (CrT) 4. Nickel 5. Cadmium 6. Arsenic 7. Mercury.

5.1.1.2. Surface Water Quality Monitoring under NWMP

5.1.1.2.1 Water Quality of Brahmaputra River

The Brahmaputra is one of the largest river systems of the world and the second largest river system in India. The Brahmaputra basin covers an area of 5,80,000 sq. km. of which 1,94,413 sq. km. is in India. The mighty river Brahmaputra with a well-knit network of tributaries drains an area of about 56,480 sq. km. in the state of Assam that accounts for about 72% of the geographical area of the state. The River rolls down the plains of Assam from east to west for a distance of about 640 km. before entering Bangladesh.

To ascertain the water quality of Brahmaputra River, Pollution Control Board, Assam has established 13 water quality monitoring stations under NWMP. The stations are at Dhola-Sadia, Bogibeel, Maijan, Nimatighat, Biswanath Ghat, Dhenukhana Pahar, Chandrapur, Kacharighat, Pandu, Sualkuchi, Matia, Jogighopa and Dhubri.

The water quality data for 8 core parameters for the year 2023-2024 obtained from 13 monitoring stations are presented in the following Table No. 5.2.

Table No. 5.2: Water Quality of River Brahmaputra, 2023-2024

Monitoring Station	Range	DO (mg/L)	pH	Conductivity (µS/cm)	BOD (mg/L)	NitrateN (mg/L)	Fecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)	COD (mg/L)
Dibrugarh	Min	5.0	6.8	102	2.0	0.7	360	730	10.2
	Max	8.7	7.6	140	2.7	1.2	1100	2100	16.0
	Mean	7.0	7.0	119	2.0	1.0	658	1388	12.0
Pandu	Min	6.1	7.0	126	2.0	0.6	730	1500	11.0
	Max	9.2	7.6	174	2.6	1.5	1100	2100	13.6
	Mean	8.0	7.0	148	2.0	1.0	945	1883	13.0
Nimatighat, Jorhat	Min	6.3	7.0	124	2.0	0.6	360	730	11.8
	Max	8.4	7.9	186	2.5	1.0	730	2000	16.0
	Mean	7.0	7.0	154	2.0	1.0	514	1120	14.0
Near Bridge, Jogighopa	Min	5.4	7.0	146	2.0	0.7	600	1200	10.0
	Max	7.2	7.6	170	2.7	1.7	1100	2100	12.8
	Mean	6.0	7.0	156	2.0	1.0	817	1708	12.0
Dhenukhapahar, Tezpur	Min	7.0	6.8	120	2.0	0.7	360	910	10.8
	Max	7.7	7.4	142	2.4	1.1	1100	2000	13.2
	Mean	7.0	7.0	132	2.0	1.0	716	1393	12.0
Chandrapur, Guwahati	Min	6.9	6.8	128	2.0	0.6	610	1500	11.8
	Max	10.0	8.0	152	2.6	1.1	2800	3600	13.6
	Mean	8.0	7.0	136	2.0	1.0	1062	1983	13.0
Dhubri	Min	5.2	6.8	130	2.0	0.7	620	1500	9.9
	Max	6.0	7.4	160	2.5	1.2	1100	2100	12.4
	Mean	6.0	7.0	143	2.0	1.0	903	1983	12.0
River Brahmaputra At Sualkuchi, Dist. Kamrup, Assam	Min	5.8	7.1	110	2.0	0.6	720	1400	9.3
	Max	9.9	7.9	132	2.8	1.0	1500	2100	13.0
	Mean	7.0	7.0	122	2.0	1.0	963	1933	12.0
Kacharighat, Guwahati	Min	5.4	7.2	132	2.1	0.6	360	910	11.5
	Max	9.9	7.8	210	2.5	1.0	1100	2700	13.0
	Mean	8.0	7.0	166	2.0	1.0	903	1851	12.0

Monitoring Station	Range	DO (mg/L)	pH	Conductivity (µS/cm)	BOD (mg/L)	NitrateN (mg/L)	Fecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)	COD (mg/L)
Near Bogibeel Bridge, Dibrugarh	Min	5.0	7.0	120	2.0	0.6	300	730	11.4
	Max	8.7	7.4	146	2.4	1.0	1100	2100	13.6
	Mean	7.0	7.0	131	2.0	1.0	682	1469	13.0
Biswanathghat, Biswanath Chariali	Min	7.0	6.8	92	1.8	0.7	620	1400	11.0
	Max	7.3	7.8	176	2.7	1.1	1100	2100	13.0
	Mean	7.0	7.0	125	2.0	1.0	857	1783	12.0
Matia (Bahati Ghat), Goalpara	Min	5.4	7.0	120	2.0	0.7	360	910	9.6
	Max	6.4	7.3	136	2.3	0.9	1100	2700	11.7
	Mean	6.0	7.0	126	2.0	1.0	728	1676	11.0
Near Dhola Sadiya Bridge	Min	5.5	6.9	98	2.0	0.6	730	1500	11.8
	Max	9.4	7.8	132	2.5	0.8	1500	2800	13.6
	Mean	7.0	7.0	120	2.0	1.0	1067	2083	13.0

Remarks

The Water Quality Index (WQI) of Brahmaputra River considering from upstream (Dibrugarh District) to downstream (Dhubri District) is found to be satisfactory with respect to D.O, BOD, Total Coliform and Faecal Coliform. The water quality of Brahmaputra River is fit for bathing (BOD value < 3.0 mg/l) and can be used for drinking and other domestic purposes after proper treatment.

Again, the water quality data of Brahmaputra River for its all 13 monitoring locations for the year are within the criteria value and lies in the Class C as per the water quality criteria – Designated Best Use, developed by the CPCB. The criteria values for some of the important parameters are shown in Table No.5.3.

Table No. 5.3: Criteria Value for Inland Surface Water in Class C

Sl. No.	Parameters	Criteria Value
1	pH	6.5 – 8.5
2	DO	>5.0 mg/l
3	BOD	<3.0 mg/l
4	Total Coliform	<5000 MPN/100ml
5	Faecal Coliform	<2500 MPN/100ml
6	Fluoride	1.5 mg/l
7	Sulphate	400 mg/l
8	Chloride	600 mg/l
9.	Nitrate	50 mg/l

5.1.1.2.2 Water Quality of Tributaries of Brahmaputra River

The mighty river Brahmaputra is characterised by a large number of tributaries, which confluence with it

from both right and left banks. The water quality data (core parameters) of some selected tributaries of Brahmaputra River are given in the following Table No. 5.4.

Table No. 5.4: Water Quality of Selected Tributaries of Brahmaputra River, 2023-2024

Monitoring Station	Range	DO (mg/L)	pH	Conductivity (µS/cm)	BOD (mg/L)	NitrateN (mg/L)	Faecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)	COD (mg/L)
River Bega MG Road, Mangaldoi	Min	5.0	7.0	90	3.0	0.7	910	1600	12.0
	Max	6.2	7.6	130	3.3	1.2	1100	2800	13.7
	Mean	5.0	7.0	110	3.0	1.0	971	2008	13.0
River Bharalu at Guwahati	Min	0.3	6.9	520	30.6	1.6	2300	4200	64.0
	Max	1.0	7.6	610	34.0	3.8	2900	5300	80.6
	Mean	0.5	7.0	552	32.0	3.0	2775	4417	71.0
River Burhidihing Near Duliajan at D/S, Tinsukia	Min	5.1	6.7	122	2.0	0.6	620	1400	10.2
	Max	9.0	7.7	178	2.7	1.0	1100	2100	13.2
	Mean	7.0	7.0	144	2.0	1.0	843	1767	12.0
River Dhansiri at Golaghat	Min	5.0	7.0	140	2.0	0.7	620	1100	10.9
	Max	10.5	7.9	172	2.4	1.3	940	2000	13.2
	Mean	8.0	7.0	158	2.0	1.0	837	1600	12.0
River Kulsi at Chaygaon Near NH-37 Crossing	Min	5.9	7.0	96	2.3	0.6	620	1100	10.0
	Max	10.4	7.8	122	2.7	0.9	1100	2100	13.6
	Mean	8.0	7.0	109	3.0	1.0	858	1658	12.0
River Manas at NH-31 Crossing, Barpeta	Min	5.1	6.9	132	1.9	0.6	600	1100	10.0
	Max	5.4	7.7	162	2.7	1.2	730	1500	14.0
	Mean	5.3	7.0	144	2.0	1.0	678	1283	12.0
River Beki at NH-37 Crossing at Barpeta Road	Min	5.3	6.8	136	2.0	0.7	360	1100	10.0
	Max	5.6	7.5	166	2.5	1.3	1100	2000	12.8
	Mean	5.5	7.0	146	2.0	1.0	695	1425	12.0
River Digboi at Lakhpathar, Reserve Forest, Digboi	Min	2.5	6.8	140	3.0	0.6	300	720	12.0
	Max	5.9	7.8	228	3.4	2.0	940	1600	15.0
	Mean	4.3	7.0	179	3.2	1.0	614	1328	13.0
River Dikhow at Dikhowmukh	Min	5.8	6.7	132	1.8	0.8	300	730	10.0
	Max	8.0	7.8	209	2.4	1.1	730	2800	13.7
	Mean	6.6	7.1	158	2.1	0.9	538	1359	11.9
River Mora Bharali at Tezpur	Min	4.0	6.9	132	3.1	0.8	360	1100	11.7
	Max	5.4	7.4	232	3.4	1.2	940	2000	13.8
	Mean	4.7	7.2	176	3.2	1.0	713	1508	12.3

5.1.1.2.3 Water Quality of Barak River and its Tributaries

Barak River is the second largest river system in Assam as well as in North East India. The river with total length of 900 km covers an area of 52,000 sq. Km. The River transverses a distance of 532 km in India up to the Indo-Bangla border. Barak is also a perennial river with a large number of tributaries joining both banks. The flow of the river in Assam decreases considerably during the winter season but they maintain their peak flow during summer/rainy season. The water quality of Barak River and selected tributaries (core parameters) are given below Table No. 5.5.

Table No. 5.5: Water Quality of Barak River and its selected Tributaries, 2023-2024

Monitoring Station	Range	DO (mg/L)	pH	Conductivity (µS/cm)	BOD (mg/L)	NitrateN (mg/L)	Faecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)	COD (mg/L)
RIVER BARAK AT D/S OF SILCHAR	Min	5.1	7.0	90	2.0	0.6	300	730	9.6
	Max	5.6	7.3	116	2.6	1.2	1100	2800	12.2
	Mean	5.0	7.0	106	2.0	1.0	895	1911	11.0
RIVER BARAK AT PANCHAGRAM	Min	6.0	6.8	102	2.0	0.6	620	1400	10.6
	Max	6.3	7.3	134	2.7	0.9	1100	2000	13.0
	Mean	6.0	7.0	117	2.0	1.0	795	1642	12.0
RIVER KUSHIARA AT KARIMGANJ	Min	5.6	7.0	84	2.0	0.6	360	910	10.0
	Max	6.8	7.3	108	2.5	1.0	730	1600	13.0
	Mean	6.0	7.0	100	2.0	1.0	677	1376	11.0

5.1.1.2.4 Water Quality of Beels/ Ponds/Tanks

Assam is well known for the presence of large numbers of beels, tanks and ponds are dotted all over the state. In this category, a total number of 59 ponds/lakes/ beels have been considered under NWMP across the state for assessment of water quality. The water quality data (core parameters) of some selected Beels/ lake and ponds are given in the following Table No. 5.6 and 5.7.

Table No. 5.6: Water Quality of selected Beels of Assam, 2023-2024

Monitoring Station	Range	DO (mg/L)	pH	Conductivity (µS/cm)	BOD (mg/L)	NitrateN (mg/L)	Faecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)	COD (mg/L)
MAGURI BEEL, GUIJAN, TINSUKIA	MIN	5.0	6.6	110	1.9	0.5	300	730	11.8
	MAX	8.1	7.3	168	2.7	1.1	360	1500	14.0
	MEAN	6.1	7.0	133	2.3	0.8	340	1003	12.7
KAMALPUR BEEL, KAMALPUR	MIN	1.7	7.1	992	21.0	2.0	720	1500	82.8
	MAX	4.0	7.8	1030	25	2.8	2100	3600	92.0
	MEAN	2.5	7.4	1013	22.7	2.5	1380	2692	86.4
SILSAKO BEEL, GUWAHATI	MIN	0.6	7.0	344	10.6	0.7	1500	2700	18.6
	MAX	4.6	7.5	442	18.2	1.9	2800	3600	32.4
	MEAN	2.0	7.2	389	14.5	1.2	1742	3183	25.7
SON BEEL AT KARIMGANJ	MIN	4.5	6.8	118	2.0	0.7	300	910	9.6
	MAX	6.9	7.3	144	2.8	1.1	620	1200	13.0
	MEAN	5.6	6.9	129	2.3	0.9	372	1078	11.2
CHAND DUBI BEEL, CHAND DUBI, KAMRUP	MIN	5.3	6.8	112	2.1	0.6	300	720	10.8
	MAX	9.2	7.9	132	2.7	0.8	360	1500	13.6
	MEAN	7.1	7.2	119	2.3	0.7	350	1113	12.1
SORU SOLA BEEL, GUWAHATI	MIN	0.3	7.0	362	12.6	0.7	2800	4200	47.6
	MAX	1.1	7.5	432	23.6	4.4	3600	5300	60.0
	MEAN	0.6	7.2	396	16.9	1.6	3033	4742	51.9
BORSOLA BEEL, GUWAHATI	MIN	0.3	6.8	360	12.8	0.6	2700	4200	47.2
	MAX	1.1	7.6	460	25.2	4.0	2900	4400	534.0
	MEAN	0.4	7.1	403	18.3	1.7	2817	4317	92.0

Table No. 5.7. : Water Quality of selected Ponds and Tanks of Assam, 2023-2024

Monitoring Station	Range	DO (mg/L)	pH	Conductivity (µS/cm)	BOD (mg/L)	NitrateN (mg/L)	Faecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)	COD (mg/L)
JAYSAGAR TANK, SIVASAGAR	MIN	5.1	6.9	92	1.8	0.6	300	720	10.2
	MAX	7.6	7.6	122	2.6	0.9	360	910	13.0
	MEAN	6.5	7.3	108	2.1	0.8	335	758	11.8
BORPUKHURI, NAZIRA	MIN	5.2	6.8	92	1.9	0.7	300	700	10.6
	MAX	7.9	7.4	114	2.8	1.0	360	1100	13.6
	MEAN	6.5	7.1	103	2.3	0.9	355	831	12.3
GAURISAGAR TANK, GAURISAGAR	MIN	5.0	6.7	97	1.6	0.7	300	730	7.8
	MAX	7.5	7.5	128	2.7	1.1	910	1500	15.1
	MEAN	6.4	7.1	109	2.2	0.9	524	1006	10.8
PADUMPUKHURI, TEZPUR	MIN	6.8	6.9	150	2.2	0.6	300	600	9.9
	MAX	7.9	7.4	234	2.7	1.2	360	1400	14.0
	MEAN	7.1	7.2	200	2.4	0.9	340	961	11.9
GOHPUR TANK, GOHPUR	MIN	6.8	6.8	128	2.0	0.6	300	720	11.0
	MAX	7.3	7.5	170	2.4	0.9	360	1200	13.6
	MEAN	7.1	7.1	145	2.2	0.7	345	999	12.4
BATODRAWA SATRA POND, NAGAON	MIN	5.0	6.7	81	1.8	0.8	300	730	11.4
	MAX	7.6	7.8	112	2.7	1.2	360	1200	13.6
	MEAN	5.8	7.3	95	2.2	0.9	350	1048	12.6
DIGHALI PUKHURI, GUWAHATI	MIN	5.1	7.9	176	2.3	0.6	360	1400	10.4
	MAX	10.0	8.2	200	2.8	1.3	730	1600	13.4
	MEAN	8.7	8.1	188	2.6	0.9	678	1492	11.7

5.1.1.3 Sub-surface (Ground Water) Quality monitoring under NWMP

The PCBA has been carrying out ground water monitoring in the state under NWMP. At present there are 69 numbers of ground water quality monitoring stations across the State. These Stations are either well or tube well in nature. Ground Water Quality Monitoring for the core parameters and other general parameters including heavy metals is carried out on half yearly basis i.e. one in the month of April and the other in the month of October. The water quality data of few selected Ground Water quality monitoring locations under NWMP covering almost all districts of the State for the year 2023-2024 are given in Table No. 5.8. The water quality in all monitoring locations are found to be within the permissible limit as per the standard of CPCB.

Table No.5.8: Quality of Ground Water at selected Locations of Assam, 2023-2024

Location	Month	Temp (oC)	pH	Conductivity (µmho/cm)	BOD (mg/L)	Nitrate N (mg/L)
Digboi Town	Apr	27	7.2	313	2.4	0.8
	Oct	22	6.9	308	2.5	1.0
Diphu Town	Apr	-	-	-	-	-
	Nov	26	7.0	268	2.5	1.4
Sivasagar Town	Apr	20	7.0	295	2.3	0.8
	Oct	26	6.8	298	2.4	0.9
Sonari Town	Apr	22	7.2	385	2.5	0.8
	Oct	24	6.9	378	2.6	1.0
Jorhat Town	Apr	18	7.8	366	2.4	0.8
	Oct	26	6.9	274	2.6	0.9
Silchar Town	May	24	6.8	126	2	1
	Nov	-	-	-	-	-
Barpeta Town	Apr	-	-	-	-	-
	Oct	29	7.6	166	2.5	0.9

Location	Month	Temp (oC)	pH	Conductivity (µmho/cm)	BOD (mg/L)	Nitrate N (mg/L)
Bongaigaon Town	Apr	27	6.9	318	2.3	0.7
	Oct	30	6.8	312	2.4	0.9
Noonmati, Guwahati	Apr	25	6.7	342	2.5	0.8
	Oct	25	6.8	346	2.3	0.9
NRL Colony, Numaligarh	Apr	25	6.8	214	2.4	0.8
	Oct	26	6.9	220	2.6	0.9
Silapathar Town	Apr	-	-	-	-	-
	Nov	23	7	264	2.5	1.4
Lakhimpur Town	Apr	22	7.6	262	2.4	0.7
	Oct	26	7.7	258	2.6	0.9
Mission Charali, Tezpur	May	26	6.8	280	2.1	0.8
	Nov	26	7	280	2.6	1.4
Nagaon, Panigaon	Apr	24	7.1	320	2.5	0.9
	Oct	24	6.9	324	2.6	1
Garchuk, Guwahati	Apr	22	7.6	398	2.8	1
	Oct	27	7.1	392	2.7	1.1
Nalbari Town	Apr	20	7.2	340	2.6	0.9
	Oct	19	7	344	2.5	2.5
Kokrajhar Town	Apr	25	7.7	348	2.5	0.8
	Oct	30	6.9	342	2.4	1
Dhubri Town	Apr	24	7.2	316	2.4	0.8
	Oct	29	6.8	342	2.6	0.9
Goalpara Town	Apr	27	6.8	336	2.4	1
	Oct	31	6.9	332	2.3	1.1
Karimganj Town	Apr	22	6.8	126	2.5	1
	Oct	24	6.9	132	2.6	1.1
Hailakandi Town	Apr	24	7	186	2.3	0.9
	Oct	24	6.9	182	2.2	0.8
Mangaldoi Town	May	27	6.8	360	2.2	0.9
	Nov	26	7	196	2.1	1.2
Garmur, Majuli	Apr	-	-	-	-	-
	Nov	24	6.8	194	2.1	1.6
Khanapara, Guwahati	May	24	6.8	346	2.2	0.7
	Nov	24	7	198	2.5	1
Dhekiajuli Town	Apr	26	7.8	284	2.6	0.7
	Nov	24	7.1	210	2.6	1.4

5.1.2 Water Quality monitoring before, during and after immersion of idols of Durga Puja

Apprehending the possible contamination of water bodies due to immersion of the idols as a part of the last ritual of Durga Puja, the Board has been carrying out water quality monitoring at different immersion sites across the State as per the guidelines of CPCB. In the year 2023, the Board has analysed the water quality of nineteen (19) different water bodies across the State to have a proper assessment of the probable impacts of the immersed idols on the concerned water bodies. The PCBA monitored water quality in three (3) phases i.e. Pre-Durga Puja, during immersion of idols and post Idol immersion. As per the guidelines of the CPCB, the water quality parameters analysed were - DO(mg/l), pH, BOD (mg/l), COD (mg/l), Conductance (µS/cm), Turbidity (mg/l), TDS (mg/l), Chlorides (mg/l), TSS (mg/l), Total Hardness (mg/l), Total Alkalinity (mg/l), Cadmium (mg/l), Copper (mg/l), Chromium Total (mg/l), Manganese (mg/l), Lead (mg/l), Zinc (mg/l) and Mercury (mg/l).

However, considering the limitation of this report, the water quality data covering 11 (eleven) important

parameters are presented below. The detailed analytical data is available on the web site of the Board - www.pcbassam.org.

Table No. 5.9: Water Quality Data of selected Water Bodies: Pre (10-10-2023) and During (24-10-2023) and Post (02.11.2023) Idol Immersion of Durga Puja in Assam, 2023-2024

Source of sample (River, Lake, Pond)	Event (Before/ During /Post)	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Cond (µS/cm)	Turbidity (mg/l)	TDS (mg/l)	TSS (mg/l)	Copper (mg/l)	Lead (mg/l)	Zinc (mg/l)	Chromium (mg/l)
Brahmaputra at Pandughat	Pre	8.4	1.6	12.2	160.6	28.6	80	34	0.03	0.10	0.031	0.06
	During	7.3	1.9	14.0	179.7	34.2	95	48	0.03	0.10	0.015	0.06
	Post	7.3	1.7	14.0	162.2	32.0	90.0	38.0	0.03	0.10	0.01	0.06
Brahmaputra at Kasomarighat	Pre	7.0	1.8	10.8	176.8	25.4	88	40	0.03	0.10	0.031	0.06
	During	6.6	2.6	28.0	195.3	37.5	98	52	0.03	0.10	0.010	0.06
	Post	6.4	2.2	16.2	192.2	26.3	90	48.0	0.03	0.10	0.01	0.06
Brahmaputra at Sunsalighat	Pre	7.6	2.1	12.6	161.2	22.1	79	16	0.03	0.10	0.020	0.06
	During	7.0	2.6	20.0	181.4	33.1	96	28	0.03	0.10	0.010	0.06
	Post	7.6	2.2	13.2	164.0	21.3	70	26.0	0.03	0.10	0.01	0.06
Basistha River at Basisthaghat	Pre	7.6	2.4	9.6	55.5	07.8	26	36	0.03	0.10	0.028	0.06
	During	6.0	2.7	20.0	77.2	13.6	38	42	0.03	0.10	0.011	0.06
	Post	6.2	2.2	12.8	60.2	8.9	30	34.0	0.03	0.10	0.01	0.06
Basistha Bahini River at Saukuchi	Pre	3.3	3.5	18.6	252.7	05.2	108	28	0.03	0.10	0.039	0.06
	During	1.4	3.8	26.8	278.8	11.3	122	40	0.03	0.10	0.011	0.06
	Post	2.8	3.0	22.0	257.2	8.1	102.0	34.0	0.03	0.10	0.01	0.06
Kolong River at Digarughat,	Pre	8.1	2.0	9.6	154.2	14.9	77	32	0.03	0.10	0.037	0.06
	During	7.0	2.7	24.0	194.2	32.0	95	36	0.03	0.10	0.014	0.06
	Post	8.1	2.2	17.8	182.1	17.0	84.0	30.0	0.03	0.10	0.01	0.06
Brahmaputra River at Majarbahaghat,	Pre	7.3	2.2	8.8	186.6	20.8	92	32	0.03	0.10	0.027	0.06
	During	6.9	2.7	16.0	243.0	26.8	121.	40	0.03	0.10	0.016	0.06
	Post	8.3	2.5	12.6	182.1	12.2	90.0	30.0	0.03	0.10	0.01	0.06
Digaru River at Sonapur Ghat	Pre	8.6	1.9	7.8	39.5	06.0	23	20	0.03	0.10	0.014	0.06
	During	6.2	2.8	16.0	49.8	12.0	28	32	0.03	0.10	0.010	0.06
	Post	6.8	2.2	10.8	40.61	8.9	21	18	0.03	0.10	0.01	0.06
Dikhow River at, Sivasagar	Pre	6.4	1.5	7.5	150.0	10.1	98	50	0.03	0.10	0.531	0.06
	During	6.9	1.6	7.9	200.0	16.2	110	48	0.03	0.10	0.258	0.06
	Post	7.0	1.6	7.0	215	12.6	130	66	0.03	0.10	0.272	0.06
Bhogdoi River at Jorhat	Pre	6.9	2.0	9.0	179.0	08.0	96	40	0.03	0.10	0.380	0.06
	During	6.4	1.9	9.3	210.0	18.2	116	56	0.03	0.10	0.294	0.06
	Post	6.4	1.8	8.0	214	10.0	114	54	0.03	0.10	0.467	0.06
Brahmaputra River at Dibrugarh	Pre	7.8	1.6	5.8	163.0	10.0	86	36	0.03	0.10	0.258	0.06
	During	7.5	2.2	6.2	180.0	10.8	118	56	0.03	0.10	0.258	0.06
	Post	7.0	1.4	6.2	112	8.0	104	40	0.03	0.10	0.292	0.06
Brahmaputra River at Guijan	Pre	6.8	1.8	6.6	164.0	15.3	86	54	0.03	0.10	0.243	0.06
	During	7.0	2.2	7.0	176.0	18.0	114	38	0.03	0.10	0.251	0.06
	Post	7.2	1.6	7.0	173	12.6	110	56	0.03	0.027	0.438	0.06
Dhansiri River near Dhansiri Bridge	Pre	7.2	1.3	7.6	247.0	13.6	138	28	0.03	0.10	0.028	0.06
	During	7.0	2.2	10.5	251.0	18.2	154	32	0.03	0.10	0.200	0.06
	Post	7.0	1.2	7.3	240	12.8	130	34	0.03	0.301	0.326	0.06
Gelabeel at Dergaon	Pre	7.2	1.6	7.6	175.0	12.0	86	30	0.03	0.10	0.022	0.06
	During	7.0	1.8	8.4	195.0	16.0	112	32	0.03	0.10	0.265	0.06
	Post	6.6	1.6	8.0	176	16	114	34	0.03	0.575	0.309	0.06
Kuchiara River at Kalibari, Karimganj	Pre	5.8	2.4	7.8	108.0	10.0	68	26	0.03	0.10	0.007	0.06
	During	5.5	2.6	8.4	116.0	16.0	60	38	0.03	0.10	0.010	0.06
	Post	6.2	2.2	7.4	104	12	60	32	0.03	0.10	0.01	0.06
Barak River at Sadarghat,	Pre	6.0	2.2	7.2	106.0	12.0	54	24	0.03	0.10	0.010	0.06
	During	5.3	2.4	10.6	120.0	16.0	68	34	0.03	0.10	0.010	0.06
	Post	5.8	2.6	8.0	105	12	62	38	0.03	0.10	0.01	0.06

Source of sample (River, Lake, Pond)	Event (Before/ During /Post)	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Cond (µS/cm)	Turbidity (mg/l)	TDS (mg/l)	TSS (mg/l)	Copper (mg/l)	Lead (mg/l)	Zinc (mg/l)	Chromium (mg/l)
Dhaleshwari River at Hailakandi,	Pre	5.3	2.2	8.0	108.0	16.0	52	34	0.03	0.10	0.010	0.06
	During	5.0	2.6	11.2	116.0	23.0	56	28	0.03	0.10	0.010	0.06
	Post	5.2	2.4	8.4	108	16	54	28	0.03	0.10	0.01	0.06
Pond at Bongaigaon	Pre	5.3	1.4	7.0	66.0	36.0	38	58	0.03	0.10	0.070	0.06
	During	5.1	1.8	9.2	74.0	40.0	40	64	0.03	0.10	0.008	0.06
	Post	5.2	1.2	7.4	72	26	30	70	0.03	0.10	0.312	0.06
Brahmaputra River at Jahazghat	Pre	8.0	1.4	6.2	118.0	14.0	54	18	0.03	0.10	0.020	0.06
	During	7.0	2.2	7.4	132.0	23.0	70	32	0.03	0.10	0.003	0.06
	Post	7.5	1.6	6.6	122	14	64	26	0.03	0.10	0.101	0.06
Kolong River at Neherubali Nagaon	Pre	5.6	1.4	7.0	135.0	11.2	72	18	0.03	0.10	0.028	0.06
	During	5.0	2.2	8.4	171.0	13.6	80	32	0.03	0.10	0.013	0.06
	Post	5.2	1.6	7.8	160	12.8	74	34	0.03	0.10	0.01	0.06

Remarks: The analytical data on water quality presented above reveals that the concentration of Dissolve Oxygen (DO) and most of the physic-chemical parameters are observed to have increased during the immersion period in comparison to the pre-immersion period, which again decreases in the post-immersion period. The decrease of concentration of parameters is due to the dilution effect of the water bodies. More significantly, there is almost no increase of concentration of heavy metals, mainly – copper; lead and zinc, during the period of immersion in comparison to the pre-immersion period in the year 2023, except in one or two random occasions. However, the detailed analytical data is available on the web site of the Board – www.pcbassam.org.

This may be due to the assertive steps taken by the PCBA to ensure eco-friendly celebration of Durga Puja. The Board issued directives/guidelines for the celebration as well as crafting of idols using organic colours and naturally found substances.

Some of the key initiatives taken by the Board to ensure eco-friendly celebration of Durga Puja in the State are –

1. Board issues specific guidelines to idol makers as per revised Guidelines for Idol immersion, 2020 of CPCB.
2. The Board has been publishing advertisements in the local newspapers as well as in magazines, journals and periodicals, etc., regarding use of eco-friendly material for idol making and use of biodegradable materials during the course of idol making, puja, decoration, etc.
3. The Board has been sponsoring banners for display in and around the puja mandap areas and awareness campaigns at the puja mandaps.
4. Meeting with puja committee members and district administration regarding the guidelines to be followed during Durga Puja including the immersion of idols

The Board took the initiative along with the Environment and Forest, Department, Government of Assam for amendment of – Water (Prevention & Control of Pollution) Assam Rules, 1974 with standards for idol immersion and the new Rules is named as ‘Water (Prevention & Control of Pollution) Assam (Amendment) Rules, 2022’ The Rule is available in the web site of the Board i.e. www.pcbassam.org.

5.1.3 Water Quality Monitoring Before, During and After Ambubachi Mela

The Ambubachi Mela is the most important mela celebrated in the Kamakhya Temple located on the top of Nilachal Hill of Guwahati, Assam. Ambubachi Mela is celebrated annually during monsoon season that happens to fall during the Assamese month Ahaar, around the later part of June. It is believed that the presiding

goddess of the Temple – Devi Kamakhya, the Mother Shakti, goes through her annual cycle of menstruation during this stretch. The Temple remains closed for three days during the Mela. On the fourth day, the temple doors are re-opened to devotees, who are allowed to enter the temple to worship Maa Kamakhya once again.



Meeting with Stakeholders on Draft Water (Prevention & Control of Pollution) Assam (Amendment) Rules, 2022

Every year lakhs of pilgrims – starting from sadhus to devotees, from all over India and even from abroad come to Guwahati to worship Maa Kamakhya and seek her blessings.

It is important to note that as a part of the ritual of the Mela, devotees bath in the two ponds – Saubhagya Kunda and Kaso Pukhuri, located in the premises of the Temples, which may have some impacts on their water quality. Considering the situation, the Pollution Control Board, Assam has been carrying out water quality monitoring of the said two ponds – before, during, and after the Mela.

The analytical data of the same for the year 2023-2024 shows that – there are some deviation in water quality from before the Mela to during the Mela in some parameters, especially in case of conductance, total solid, chemical oxygen demand (C.O.D.), total coliform and fecal coliform. However, it is difficult to establish a specific trend of water quality from before, during and after Mela monitoring. The detailed analytical data is available on the web site of the Board - www.pcbassam.org.

5.1.4 Water Quality Monitoring Before, During and After Maha Sivaratri Mela, Sivasagar

The festival of Sivaratri, like the previous years, was observed in the Sivasagar town from 04.03.2024 to 08.03.2024. The devotees from across the country visited the town to offer their prayers to Lord Siva at Sivadol. The RLO Sivasagar, PCBA has carried out water quality monitoring of Sivasagar Tank in three phases i.e. before (02.03.2024), during (08.03.2024) and after (11.03.2024) the Sivaratri Mela to assess, if there any, impact on the water Quality of the Tank as the holy water and milk used in the Dol during the puja rituals eventually gets discharged to the Tank. As the Sivasagar Tank is a stagnant water body and discharge of excessive milk and water may have possibility of degrading the water quality of the Tank.

The analyses of water quality data revealed a modest increase in the concentration of the Biochemical Oxygen Demand (BOD) during the Sivaratri festival, which has crossed the prescribed standard of 3 mg/l, indicating the probability of impact on water quality. However, the concentration level of BOD was observed to be within the permissible limit in the pre and post Sivaratri monitoring.

5.2 Ambient Air Quality Monitoring

The Pollution Control Board, Assam has been carrying out ambient air quality as well as noise level monitoring across the State under different monitoring programmes, like – National Air Monitoring Programme (NAMP) of CPCB; National Clean Air Programme (NCAP); special monitoring during Deepawali, during Durga Puja; and other need-based special monitoring.

5.2.1 Monitoring Networks

The Board has expanded its air quality monitoring networks in the last two years. The numbers of monitoring station – Continuous Ambient Air Quality Monitoring Stations (CAAQMS) and Manual Ambient Air Quality Monitoring Stations (MAAQMS), numbers of sample analyses and the coverage of city/towns/rural areas under the air quality monitoring network of the Board have increased significantly. At present, the Board is monitoring ambient air quality through 63 manual ambient air quality monitoring stations (MAAQMS), covering 16 urban centers and in 3 rural areas, and by 9 continuous ambient air quality monitoring stations (CAAQMS) covering six urban centres.

5.2.2 Implementation of National Air Monitoring Programme (NAMP)

5.2.2.1 Manual Ambient Air Quality Monitoring Station

The PCBA has been implementing the National Air Monitoring Programme (NAMP) of CPCB in the State since 1991 as per the monitoring protocol provided by the CPCB. At present there are 63 manually operated ambient air quality monitoring stations (MAAQMS). The List of Manual Monitoring Station under NAMP, 2023-2024 is given in Annexure - III.

5.2.2.2 Air Quality of Selected Cities / Towns of Assam

Table No. 5.10: Ambient Air Quality of different City/ Towns of Assam, 2023 (Annual Average Concentration of MAAQMS integrated with CAAQMS data from January to December)

Sl. No.	City/Towns	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
1	Bongaigaon (2 MAAQMS)	5.3	12.1	51	24
2	Tezpur (1 MAAQMS)	8.0	16.5	61	32
3	Dibrugarh (1 MAAQMS)	5.7	11.5	46	22
4	Golaghat (1 MAAQMS)	6.0	12.1	53	24
5	Margherita (1 MAAQMS)	5.8	11.7	55	26
6	Daranga (1 MAAQMS)	6.2	14.0	72	35
7	Lakhimpur (1 MAAQMS)	5.3	14.5	65	31
8	Guwahati (10 MAAQMS+4 CAAQMS)	12.9	12.3	109	53
9	Nalbari (3 MAAQMS+1 CAAQMS)	5.8	10.6	111	51
10	Nagaon (3 MAAQMS+1 CAAQMS)	8.5	15.6	101	46
11	Sivasagar (3 MAAQMS+1 CAAQMS)	5.6	11.3	45	22
12	Silchar (3 MAAQMS+1 CAAQMS)	8.5	9.8	46	26
13	Tinsukia (3 MAAQMS)	6.0	12.1	52	25
14	Byrnihat (1 MAAQMS+1 CAAQMS)	21.8	24.4	270	133
National AAQ Standard for Residential/Commercial Area for Annual Average		50	40	60	40

5.2.3 Ambient Air Quality Monitoring During Durga Puja, 2023-2024

To assess the impacts of different activities on ambient air quality before and during the Durga Puja, the Board has monitored four (4) important ambient air quality determining parameters i.e. NO₂, SO₂, PM₁₀ and PM_{2.5} at selected locations in different puja mandaps of Assam.

Table No. 5.11: Ambient Air Quality of different City/Towns of Assam during Durga Puja Festival 2023-2024 (Based on 24 hrs Average Data of MAAQMS)

Monitoring location	Parameters monitored (Units in µg/m ³)											
	Before Durga Puja (10/10/2023)				During Durga Puja (21/10/2023)				During Durga Puja (24/10/2023)			
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}
Bamunimaidam	6.5	16.0	56	30	6.7	17.5	91	30	6.3	17.0	80	30
Gopinathnagar	6.7	16.2	74	35	6.5	10.7	86	45	6.5	15.8	70	32
Santipur	6.5	15.5	37	20	6.5	15.3	41	22	6.5	15.8	49	23
Khanapara	6.5	15.5	97	45	7.3	15.8	99	48	6.3	15.5	98	44
Nalbari College	5.8	16.5	66	30	5.2	14.7	74	36	5.5	15.5	99	42
Power House Rd.	5.3	15.3	54	25	5.3	15.3	119	63	4.7	13.3	98	45
Milanpur-Nagaon	7.2	15.5	34	15	6.5	14.7	68	16	7.0	14.7	77	18
Girls' College-Nagaon	6.2	13.0	91	43	9.7	15.5	84	40	6.5	15.2	65	32
Melachakar	4.8	9.8	24	15	5.0	10.2	36	12	5.0	10.2	46	12
ONGCL G.House	4.8	9.8	31	17	6.2	12.0	56	16	4.8	10.0	30	18
Rudrasagar	4.0	8.3	19	10	6.2	11.7	43	21	5.7	11.2	40	20
Tarapur-Silchar	5.7	6.8	32	12	8.7	10.0	46	23	8.0	9.1	43	19
Kathal Road	7.3	9.0	41	19	11.0	11.3	45	22	8.2	9.0	53	26
Dibrugarh	4.3	9.3	14	8	5.0	10.5	40	18	5.0	10.2	20	16
Golaghat	4.7	9.8	25	17	5.2	10.7	42	22	5.8	11.7	57	14
Tezpur	7.5	14.2	30	14	7.3	16.3	32	15	7.7	17.0	46	21
Borguri-Tinsukia	4.7	9.8	21	10	5.3	10.7	36	17	5.5	10.5	44	17
Shreepuria	5.5	10.8	32	12	5.8	11.7	46	24	6.0	11.8	53	25
Shivdham	4.7	9.8	25	12	4.0	8.6	17	10	4.5	9.5	14	9
Margherita	4.7	9.7	28	13	4.8	10.0	45	14	4.5	9.5	35	16
Lakhimpur	5.2	14.3	50	26	4.7	13.2	56	25	5.7	16.8	66	35
NAAQ Standard for Residential/ Commercial Area for 24 hrs. Average	80	80	100	60	80	80	100	60	80	80	100	60

5.2.4 Ambient Air Quality Monitoring During Deepawali Festival, 2023-2024

To assess the impacts of firecracker bursting during Deepawali on ambient air quality, the Board has monitored four (4) important ambient air quality determining parameters i.e. NO₂, SO₂, PM₁₀ and PM_{2.5} at selected locations in different cities/towns of Assam.

The analytical data given in the Table No. 5.12, reveals that SO₂ and NO₂ before and during Deepawali festival in all monitoring stations were within the prescribed National Standard i.e. 80 µg/m³. It is also observed that there is no clear trend of increase or decrease of SO₂, NO₂, PM₁₀ and PM_{2.5} values from before Deepawali days to during Deepawali days. However, in some cases there have been marginal increased of concentration of PM₁₀ and PM_{2.5} during the Deepawali day in comparison with the days before the Deepawali. This indicates the possibility of having some impacts of firecrackers bursting on ambient air. The high level of PM₁₀, PM_{2.5} concentration in ambient air is very harmful to human health.

Table No. 5.12: Ambient Air Quality Before and During Deepawali Festival at selected City/Towns of Assam, 2023-2024

Monitoring Location	Parameters Monitored (Units are in $\mu\text{g}/\text{m}^3$)							
	Before Deepawali on 06.11.2023				During Deepawali on 12.11.2023			
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}
Bamunimaidam, Guwahati	6.8	14.8	150	62	6.5	16.2	290	130
Khanapara, Guwahati	6.5	16.3	148	63	6.8	16.7	243	125
ITI Buiding, Guwahati	6.7	16.8	109	47	7.0	18.2	241	120
Santipur, Guwahati	6.5	152.5	83	45	6.3	14.2	101	48
Boragaon, Guwahati	--	--	--	--	--	--	--	--
Gauhati University Campus	6.7	15.0	55	30	6.2	14.7	140	52
Bonda, Guwahati	6.3	14.8	74	35	6.2	14.8	103	54
Barpara, Bongaigaon	6.0	11.0	52	23	16.0	22.0	90	46
OIL Campus, Bongaigaon	5.0	10.0	46	20	5.0	11.0	51	25
WRD Campus, Nagaon	8.2	16.0	76	34	8.0	15.5	100	51
Milanpur, Nagaon	8.3	16.0	96	24	7.8	15.8	118	56
Nowgaon Girls College, Nagaon	5.3	11.1	124	66	10.2	17.0	98	50
Nalbari College, Nalbari	5.5	13.7	109	58	5.2	14.3	178	80
Golaghat RO, Golaghat	5.3	10.8	46	15	4.8	10.0	40	21
Chowkidinghee, Dibrugarh	5.7	11.3	45	22	6.7	13.3	55	28
CIL Complex, Margherita	7.0	14.0	84	30	9.2	18.2	117	58
Borguri, Tinsukia	5.8	11.5	52	22	7.5	14.8	82	24
Shivdham, Tinsukia	--	--	--	--	--	--	--	--
Shreepuria, Tinsukia	7.0	14.0	64	17	8.8	17.8	68	30
Polo Field, Tezpur	6.0	14.2	65	33	6.0	14.3	109	50
Bazar Patti, Lakhimpur	7.0	9.0	48	25	9.7	11.5	68	35
Indo-Bhutan Border, Baksa	--	--	--	--	--	--	--	--
ONGC Guesthouse, Sivasagar	5.3	10.7	51	11	7.8	15.8	114	28
Melachakar, Sivasagar	5.2	10.5	53	18	7.2	14.2	90	40
Janiganj, Silchar	--	--	--	--	--	--	--	--
Tarapur, Silchar	7.0	9.0	48	25	9.7	11.5	68	35
Kathal Road, Silchar	9.0	10.0	42	21	12.0	13.0	58	38
National Ambient Air Quality Standard (for Residential areas)	80	80	100	60	80	80	100	60

Remark: From the data presented above and their analyses, it can be concluded that there is no specific trend of increase or decrease of monitored ambient air pollutants values as well as ambient noise level during the days before Deepawali and days after Deepawali. The level of SO₂ and NO₂ were found well within the prescribed National Standards. However, the concentration of PM₁₀ and noise level values depicts some increase in many cases during the Deepawali days in comparison to the days before the Deepawali days. This indicates possibility of having some impacts of firecrackers bursting during the Deepawali days on the ambient air as well as on ambient noise levels in the areas of monitoring.

5.3 Ambient Noise Monitoring

5.3.1 Noise Level Monitoring During Durga Puja, 2023-2024

The Board has carried out noise level monitoring at selected Durga Puja Mandaps in Guwahati city and in other important towns of the State with an objective to assess the impacts of various activities including the sound of loud speaker used in the Puja Mandaps.

Table No. 5.13: Noise Level Monitoring During Durga Puja, 2023-2024

Sl. No.	City/Towns	Location	AMBIENT NOISE LEVEL DURING DURGA PUJA Leq (in dBA)		
			Before Durga Puja	During Durga Puja	
			10.10.2023	21-10-2023	24-10-2023
1	Guwahati	Ganeshguri (C)	69.2	73.2	62.0
2		Bharalumukh (C)	58.9	76.3	62.3
3		Pandu (C)	55.8	72.8	62.5
4	Golaghat	College Tiniali (R)	72.3	77.1	76.5
5	Sivasagar	Melachakar (R)	55.9	58.0	55.7
6		Central Market (C)	62.7	70.4	62.6
7		Sivadol, near DC Office (S)	54.4	61.3	57.5
8	Silchar	DC Office, Silchar (S)	48.5	61.0	50.7
9		Premlata, Silchar (C)	63.3	76.5	66.5
10		Ambicapatty (R)	56.3	61.8	59.0
11		Link Road (C)	57.2	65.5	59.8
12		District Court (S)	50.7	58.3	52.8
13		Rangirkhari (R)	63.7	74.3	65.0
14	Tezpur	Mahabhairab Mandir(S)	66.9	63.7	71.4
15	Lakhimpur	Circuit House (R)	59.5	67.5	60.5
16	Bongaigaon	Civil Hospital (S)	43.1	55.4	53.0
17		Barpara (R)	48.5	66.3	63.7
18		Mayapuri (C)	61.1	73.5	65.1
19		Chapaguri (C)	60.1	72.1	65.2
20	Dibrugarh	HS Road (C)	65.8	74.6	76.7
21		Dibrugarh University (S)	66.5	57.0	50.1
22		Milanpur (R)	60.8	62.1	64.4
23	Nagaon	BP Civil Hospital (S)	60.5	82.1	62.3
24		Milanpur Area (R)	62.7	82.1	61.7
25		Haibargaon Bazar Area (C)	81.9	66.3	62.5

5.3.2. Noise Level Monitoring During Deepawali, 2023-2024

The Board has carried out noise level monitoring in selected places of Guwahati city and in other important towns of the State with an objective to assess the impacts of firecrackers bursting on noise level during Deepawali festival.

Table No. 5.14: Ambient Noise Levels Before and During Deepawali Festival at selected City/Towns of Assam, 2023-2024

AREA	LOCATION	ZONE	AMBIENT NOISE LEVEL Leq (in dBA)	
			Before Deepawali 06.11.2023	During Deepawali 12.11.2023
GUWAHATI	Ulubari	R	65.90	71.90
	Ganeshguri	C	66.80	71.60
	M.M.C Hospital	S	57.90	78.80
BONGAIGAON	Barpara	R	53.80	68.30
	Mayapuri	C	66.20	75.50
	Civil Hospital	S	50.70	56.40

BARPETA	Azad Nagar	R	55.00	63.70
	Bus Stand	C	67.10	71.70
	FAAMCH	S	51.50	55.00
TEZPUR	Mahabhairab	C	65.16	76.40
	Mazgaon	R	--	--
	Civil Hospital	S	--	--
LAKHIMPUR	Circuit House,	R	60.20	70.65
GOLAGHAT	Market Area	C	73.06	81.93
DIBRUGARH	PCBA RO Office	R	59.68	79.71
TINISUKIA	Maruwaripatty	C	74.78	91.71
DHEMAJI	Civil Hospital	S		
SIVASAGAR	RLO,Sivasagar	R	54.70	75.20
CHARAIDEO	Daily Market, Sonari	C	65.30	78.50
JORHAT	Atilagaon	R	62.20	67.80
	Medical College	S	--	--
SILCHAR	DC Office	S	--	--
	JaniganjTarapur	R	--	--
	Ambicapatty	R	--	--
NAGAON	Near BP Civil Hospital	S	63.90	66.00
	Haiborgaon Bazar Area	C	81.90	83.05
	Milanpur	R	62.20	64.20
	Near Hojai Civil Hospital	S	62.20	81.01
	Kalibari Road	R	62.70	66.26
	Market Area	C	62.06	82.68
MARIGAON	Maya Bazar	C	61.46	82.05
	Morigaon Civil Hospital	S	58.85	79.81
	Near Morigaon Girls' High School Area	R	62.21	65.83

Remark: The ambient noise level shows the increase of ambient noise level during the Deepawali days in comparison to the days before the Deepawali days. Moreover, it is also observed that there is no clear trend of increase of noise from the Deepawali days of the year 2022 to Deepawali days of the Year 2023.

5.3.3 Noise Level Monitoring During Maha Sivaratri Mela at Sivasagar, 2023-2024

The Board has been carrying out ambient noise level monitoring during the Maha Sivaratri Mela at Sivasagar. The noise level during the Sivaratri Mela 2024 was found to be above the permissible limit as per the standards specified for all four zones i.e. Industrial, Commercial, Residential and Silence zones. The slight increase of noise during the Mela may be attributed to the large gathering of people and continuous movement of vehicles across the Sivadol campus.

Table No. 5.15: Noise (Ambient Standards) in dB (A)

During day time (between 6.00 AM & 10.00 PM)		During night time (between 10.00 PM & 6.00 AM)	
Industrial Zone	75	Industrial Zone	70
Commercial Zone	65	Commercial Zone	55
Residential Zone	55	Residential Zone	45
Silence Zone	50	Silence Zone	40

CHAPTER VI

Present State of Environment, Environmental Problems and Counter Measures

6.1. Critically Polluted Industrial Area

Central Pollution Control Board, Delhi (CPCB) has identified Byrnihat industrial area of Assam in Kamrup Metro district as Critically Polluted Area (CPA) with Comprehensive Environmental Pollution Index (CEPI) Score of 78.31. As per the Action Plan submitted to CPCB, the Board has been carrying out environmental quality monitoring, has prepared a GIS-based demarcation map of the area and database on industries in the area to make environment management more comprehensive.

The Board has been monitoring has the ambient air quality in the Byrnihat CPA through manual ambient air quality monitoring station and Continuous Ambient Air Quality Monitoring Station (CAAQMS) in the area. The data generated through these stations have been regularly sent to CPCB. The integrated data generated from both the stations are presented in Table No. 6.1.

Table No. 6.1: Ambient Air Quality of Byrnihat, 2023-24
(Integrated data of one MAAQMS and one CAAQMS)

Sl. No.	City/Towns	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
1	January, 2023	36.2	30.5	453	248
2	Februray, 2023	29.6	27.3	368	176
3	March, 2023	32.3	27.8	343	155
4	April, 2023	32.6	33.0	272	134
5	May, 2023	24.4	24.0	233	121
6	June, 2023	23.4	19.8	202	86
7	July, 2023	20.8	18.8	155	71
8	August, 2023	21.0	17.6	177	90
9	September, 2023	10.6	20.0	247	114
10	October, 2023	10.2	21.2	255	119
11	November, 2023	7.7	20.6	271	130
12	December, 2023	9.9	29.5	267	151
Annual Average		22.0	24.0	270	133

6.2. Polluted River Stretches

Central Pollution Control Board, Delhi identified 44 No. of rivers in the State as Polluted River Stretches in the year 2018 based on BOD value (> 3.0mg/l) of the year 2016-17 under NWMP. The polluted river stretches were categorized in 5 priority ranks, i.e. from Priority I to Priority V with increasing severity of pollution. The Board has taken up many actions to bring the BOD level down in the identified river stretches. Some of them are –

- The PCBA has prepared Action Plans for the rejuvenation of the identified river stretches, which have been approved by the CPCB
- The Board is co-ordinating with different stakeholders, like – Environment and Forest Department, Govt. of Assam; Panchayat and Rural Development (PNRD), Govt. of Assam, DoHUA pertaining to the implementation of the Action Plans.
- The Board is regularly monitoring the water quality of these 44 river stretches. The monitoring data shows that the water quality of 35 rivers out of 44 identified polluted river stretches have improved and at present there are only nine (9) rivers with BOD value higher than the prescribed standard. The results have been intimated to CPCB and request has been made to re-notify the status of Polluted River Stretches of Assam based on recent monitoring data.
- The PCBA is also submitting Monthly Progress Report (MPR) with respect to polluted river stretches to Environment & Forest Department, Government of Assam for onward submission to Union Ministry of Jal Shakti, Delhi. Based on the MPR from different states, the Union Ministry of Jal Shakti convene Central Monitoring Committee Meetings (CMC) from time to time and discusses about the implementation of Action Plans. A total of 18 CMC meetings have been held so far through Video Conferencing Mode.

However, present status of these 44 rivers as per the monitoring of the Board is shown in the Table No. 6.2 below.

Table No. 6.2: Status of Polluted River Stretches as per Monitoring of PCBA

Priority	No. of stretches declared in 2018	No. of stretches in 2019 (Jan to December 2019)	No. of stretches in 2020 (Jan to December 2020)	No. of stretches in 2021 (Jan to December 2021)	No. of stretches in 2021 (Jan to December 2022)	No. of stretches in 2021 (Jan to March 2023)
Priority I	03	05	03	01	01	01
Priority II	01	-	01	03	03	03
Priority III	04	-	01	01	01	01
Priority IV	03	-	-	-	-	-
Priority V	33	09	01	04	04	04
Not Polluted	-	30	38	35	35	35
Total	44	44	44	44	44	44

6.3. Non-attainment City/Towns

The Central Pollution Control Board has identified 132 cities across the country, those who failed to attain the national standard of air quality, namely concentration of PM₁₀ in the ambient air, as Non-attainment city/towns (NAC). Out of these identified 132 NACs, 5 cities/ towns are in Assam, which are – Guwahati, Nalbari, Nagaon, Sivasagar and Silchar.

6.3.1 Implementation of National Clean Air Programme

The Ministry of Environment, Forest & Climate Change, Government of India launched a nationwide programme in the year 2019, called National Clean Air Programme, with the principal objective of improvement of air quality in the identified NACs within the stipulated time period. Initially, the target of the NCAP was to reduce air pollution – mainly concentration of particulate matter (PM₁₀), in the identified non-attainment cities/towns (NACs) of India up to 20% to 30 % by the year 2024 in comparison to the year 2017 by engaging all stakeholders. The MoEF&CC has revised the target of achievement and now, the programme envisages to achieve reductions up to 40% or achievement of National Ambient Air Quality Standards for Particulate Matter 10 (PM₁₀) concentrations by 2025-26.

The Pollution Control Board, Assam carried out different activities under the National Clean Air Programme (NCAP) under the approved action plans to improve air quality of the said city and towns of the State in association with the stakeholder departments of the Government of Assam, such as – Transport Department; Public Works Department; Forest Department; Food, Civil Supplies and Consumer Affairs Department; Police (Traffic); National Highways Authority of India; Industry Department; Urban Local Bodies; Urban Development Department and District Administration of concerned districts.

The Board has assigned the responsibility of implementing the NCAP to its Regional Offices, located at – Kamrup (Amingaon); Guwahati; Nagaon; Sivasagar; and Silchar, at ground level under the guidance of the Head Office. A brief note on the activities carried out by the Board in the last two years is given in the following sections –

6.3.2 Monitoring of Air Quality

6.3.2.1 Installation of Manual Ambient Air Quality Monitoring Station

Pollution Control Board, Assam has installed 8 manual ambient air quality monitoring stations under National Clean Air Programme (NCAP) at 5 non-attainment city/towns of Assam. Locations of these monitoring stations are given in the Table No. 6.3.

Table No.: 6.3: Manual Ambient Air Quality Monitoring Station under NCAP

Sl. No.	Station Name with Station Code	District	Address
Monitoring Station under NCAP			
1.	Bonda (Code : 1055)	Guwahati	SC Johnson Products Pvt. Ltd., Bonda, Guwahati
2.	Byrnihat (Code : 1056)	Guwahati	Central Academy for State Forest Service, Byrnihat
3.	DC Office Nalbari (Code : 1057)	Nalbari	Amtron Office Building, DC Office, Nalbari
4.	Power House Rd. Nalbari (Code : 1058)		H.N. 398, Near APDCL Sub-division(I), Power House, Nalbari-781335.
5.	Milanpur, Nagaon, (Code : 1059)	Nagaon	Office RLO-Nagaon, PCBA, Milanpur, Nagaon
6.	Girls' College, Nagaon (Code : 1060)		Nowgaon Girls College, Nagaon
7.	Rudrasagar (Code : 1061)	Sivasagar	GGs-II of Rudrasagar Oil Field, ONGCL, Sivasagar
8.	Kathal Road (Code : 1062)	Cachar	House No. 1018, Ward no. 16, Kathal Road, Silchar

6.3.2.2 Installation of Continuous Ambient Air Quality Monitoring Station

The Board installed nine (9) nos. of Continuous Ambient Air Quality Monitoring Station (CAAQMS) in the five Non-attainment cities/towns of Assam of which five (3) in Guwahati City and one (1) each in Nagaon, Nalbari, Sivasagar and Silchar towns. Out of the nine (9) CAAQMSs, seven (7) stations have been installed in last two (2) years. (Table No. 6.4).



Manual ambient air quality monitoring Stations under NCAP

Table No. 6.4: Continuous Ambient Air Quality Monitoring Stations under NCAP

Name of the Town/City	Location of CAAQMS
	CAAQMS under NCAP
Guwahati	1. Indian Institute of Technology, Guwahati
	2. Central Academy for State Forest Service (CASFOS), Byrnihat
	3. Lokpriya Gopinath Bordoloi International Airport (LGBI), Borjhar.
	4. Head Office Building of PCBA at Bamunimaidam, Guwahati
	5. Physics Department Building, Cotton University, Panbazar, Guwahati
Nagaon	6. Nagaon College, Nagaon
Nalbari	7. Nalbari Municipal Board Office at Supermarket, Nalbari
Silchar	8. Silchar Development Authority Office Building, Silchar
Sivasagar	9. Sivasagar Girls' College, Sivasagar

Presently, taking together with the earlier installed two (2) CAAQM Stations at Guwahati – Head Office Building of PCBA at Bamunimaidam and Physics Department Building, Cotton University, Guwahati, the Board is operating 9 nos. of CAAQM Station in the State.



Images of CAAQMS installed in NACs in Assam (left and middle) and digital display board attached with CAAQMS

6.3.3 Air Quality in NACs

Based on the Ambient Air Quality monitoring data generated from the above-mentioned MAAQMS and CAAQMS along with existing MAAQMS under NAMP at each NACs, the trend of monthly mean concentration of PM₁₀ for the year 2023 is presented in the Table No. 6.5.

Table no.: 6.5. Monthly Average concentration of PM₁₀ during 2023 of 5 NACs of Assam (Integrated Data of Manual and Continuous AAQM Stations)

Month/year	Guwahati	Nalbari	Nagaon	Sivasagar	Silchar
January, 2023	209	209	207	74	61
February, 2023	207	183	179	74	63
March, 2023	152	140	157	53	53
April, 2023	112	102	92	46	49
May, 2023	74	95	74	42	46
June, 2023	65	79	65	32	39
July, 2023	48	50	49	22	36
August, 2023	52	59	42	22	33
September, 2023	62	67	67	31	38
October, 2023	71	82	65	34	37
November, 2023	120	134	108	58	46
December, 2023	137	134	114	58	48
Annual Mean concentration (µg/m³)	109	111	102	46	46

Note: Integration of data of 7 MAAQMS and 4 CAAQMS

6.3.4 Source Apportionment and Emission Inventory and Carrying Capacity Study

Source Apportionment, Emission Inventory and Carrying Capacity Study for the five non-attainment cities of Assam is being carried out by IIT-Guwahati, one of the technical partners of NCAP, Assam.

Memorandum of Understanding (MoU) between respective Urban Local Bodies of NACs, PCBA and Institutes of Repute (IoRs), such as – IIT, Guwahati for Guwahati city and Nalbari town; Tezpur University for Nagaon town; CSIR-NEIST, Jorhat for Sivasagar town; and NIT Silchar for Silchar town, has also been signed to work together for control and abatement of air pollution in the NACs.

6.3.5 Awareness Campaign at Schools and Colleges

The Board carried out a number of awareness camps in different secondary schools, senior secondary schools and colleges covering the 5 NACs in the financial year 2023-2024. The basic objectives of the campaign at schools/colleges were –

- to create awareness on the rising trend of air pollution in our country, especially in urban centers;
- to make the students aware of the health impacts of polluted air and some safety measures;

- to raise awareness on the impacts of air pollution on our environment and measures to reduce it;
- to share information on air pollution and its global trend;
- to share some easy-to-follow tips to reduce air pollution at individual level.

6.3.5.I Awareness Camps at Guwahati City, 2023-2024

Awareness camp at Tata Institute of Social Sciences (TISS): The Office organised an awareness camp at Tata Institute of Social Sciences (TISS) on October 13th, 2023 in collaboration with the NGO "Aaranyak" and Srujan Guru – a proposed Waste to Wealth manufacturing unit



Awareness camp at TISS, October 13th, 2023

Awareness camp at India Carbon Ltd.: On February 2nd 2024, the Office conducted a mass awareness programme in collaboration with India Carbon Ltd. The event commenced with a field visit to Monsoon Polymer Pvt. Ltd. Guwahati followed by an awareness meet at India Carbon Limited, Noonmati. A large number of students from different universities and colleges in Guwahati, including Cotton University, B. Borooah College, Handique Girls' College, LCB College, and Royal Global University, actively participated in the programme. Dr. Arup Kumar Misra, Chairman, PCBA; Dr. Shantanu Kumar Dutta, Member Secretary, PCBA and other senior officials of the Board as well as officials from India Carbon Ltd deliberated in the event and interacted with the students.



Dr. Arup Kumar Misra, Hon'ble Chairman, PCBA, (left) interacted with the students in the programme at India Carbon Ltd.

Awareness camp at B. Borooah College: Another mass awareness programme was organised by the Office in collaboration with the Department of Chemistry and Advanced Level Institutional Biotech Hub at B. Borooah College on 22nd March, 2024. Students from the departments of Botany, Chemistry, Geography, Physics, and Zoology presented papers on various topics such as solid waste management, plastic waste management, abatement of air pollution, etc.

Vehicular Emission Testing and Awareness Drive: The Office has carried out a series of vehicular emission testing drives as well as awareness creating initiatives among the drivers on vehicular pollution and maintenance of vehicles to minimize pollution in Guwahati city. The Hon'ble Chairman, PCBA, Dr. Arup Kumar Misra also took part in the drive in 2024.



Representative images of the Awareness Camps organized by RO Guwahati at B. Boroohah College, Guwahati



Vehicular emission testing drives as well as awareness creating initiative on vehicular pollution carried out by RO Guwahati 2024

6.3.5.2 Awareness Camps at Nagaon Town, 2023-2024

Awareness Camp in the Year 2023-2024: The Office organized four (4) awareness camps under NCAP in the year 2023-2024. The institutions covered under this series of camps were –

Awareness Camp at Sonai Academy: Awareness campaign under NCAP was conducted at Sonai Academy, Nagaon on July 21, 2023 where around 125 students as well as the Principal and the faculties participated.

Awareness Camp at Renaissance Jr. College: Awareness campaign under NCAP was conducted at Renaissance Jr. College, Nagaon on July 25, 2023 where around 110 students as well as the Principal and the faculties participated.

Awareness Camp at Matrix Jr. College: Awareness campaign under NCAP was conducted at Matrix Jr. College, Nagaon on July 27, 2023 where around 120 students as well as the Principal, faculties and supporting staff also participated.



Snapshots of Awareness Camps organised by RO Nagaon under NCAP

6.3.5.3 Awareness Camps at Silchar Town, 2023-2024

- 17 Awareness Meets in High Schools and Higher Secondary Schools were conducted at Silchar city regarding Air Pollution Control under NCAP.
- Awareness meet was conducted in collaboration with the ULB, Silchar, DICC & Self Help Group etc.,.



Awareness meets conducted in collaboration with the ULB, Silchar, DICC & Self Help Group

6.3.6 Publication of Awareness Messages

The Board has also been publishing awareness messages on air pollution, easy-to-follow tips to combat air pollution and infographs containing information on air pollution in various journals, magazines, periodicals, souvenirs, etc., regularly as an awareness building initiative under NCAP.



Representative image of published Awareness Messages and Info-graphs

6.3.7 Awareness through Social Media

The Board has been carrying out intense awareness through Social Media handles, namely Facebook@PCBAAssam, Twitter@PCBAAssam and Instagram@pcbassam using static posts, reels, short videos, live programmes, infographics, etc., since June 2022. In its social media campaign, the Board stressed on regular updates of Air Quality Index (AQI) of the 5 NAC of the State; awareness messages and info-graphics on different aspects of air pollution; highlights of awareness meet. It is pertinent to note that the social media handles of the Board have shown a remarkable growth of their followers, engagement rates and reaches, which reflects the meaningful connections that the Board's Social Media Handles could establish with the audience. For example, the Facebook page of the Board had 7,886 followers; 5,8,660 reaches till March, 2024.



Representative Posts in Social Media Handles of PCBA pertaining to implementation of NCAP

6.3.8 Awareness Programme: with the Owners of Brick Kiln industries

The PCBA arranged awareness meeting with the owners of brick Kiln industries as well as with the members of the brick kiln association under different RO/RLO regarding Air quality improvement and adoption of Zig-Zag technology to reduce emission.



Representative moments of meeting with brick kiln owners association related to the adoption of Zig Zag technology under NCAP by the ROs of the Board

6.3.9 Celebration of International Day of Clean Air for Blue Skies, 2023

The Board celebrated the International Day of Clean Air for Blue Skies on 7th Sept, 2023 with a number of activities to raise awareness among the masses on the need for reducing air pollution to keep our skies looking blue. A blue sky is a clear indication of no pollution behind it. The Head Office as well as the ROs and RLOs of the Board organized different activities to mark the celebration of the Day on the theme – ‘Together for Clean Air.’ A brief resume of the celebration of the Day by the Board at different places of the State is presented below –

Head Office: An awareness meet cum discussion was organized jointly by the Pollution Control Board, Assam and the Centre for Clouds and Climate Change Research, Cotton University, in the campus of the University at Guwahati on the occasion.

The celebration of the Day started with the ceremonial lighting of the lamp followed by the welcome address by the Vice Chancellor of the University. The Vice Chancellor in his succinct yet impactful welcome address

underlined the significance of the Day. The other dignitaries who deliberated on the occasion were – renowned scientist and environmentalist Prof. B. N. Goswami; Dr. Rahul Mahanta, Associate Professor and Director of the Centre for Clouds and Climate Change Research, Cotton University; Shri Diganta Bora, IPS, Police Commissioner, Guwahati; Shri Monoj Saikia, Chief Environmental Scientist, PCBA and Dr. G. K. Misra, Addl. Chief Environmental Scientist, PCBA.



Moments of Celebration of International Day of Clean Air for Blue Skies, 2023 at Cotton University

A large number of students from various colleges and universities actively participated in the event, and engaged in thought-provoking discussions on air quality, environmental conservation, and the importance of collective action for reduction of air pollution and environment management.

As a part of the celebration of the Day, a poster writing competition was also organised and the winners were felicitated in the meet. The event underscored the dedication of the PCBA towards environmental awareness and sustainable practices, inspiring all those present to embark on a collective journey toward cleaner air and a healthier future. The event demonstrated that, indeed, we are “Together for Clean Air.”

The ROs and the RLOs of the Board also celebrated the Day with various activities.

6.4. Waste Management

The PCBA is mandated with the responsibility of implementing the identified provisions of different waste management Rules framed under the Environment (Protection) Acts, 1986. The status of implementation of different waste management rules during the period 2022-2023 is presented below –

6.4.1. Hazardous Waste Management

The Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and its Amendments Rules shall apply to the management of hazardous and other wastes as specified in the Schedules to these rules. The basic objective of the Rules is to ensure safe and environmentally sound management of hazardous and other wastes listed in the Rules through proper storage, transportation, reuse, recycle, recovery, treatment and disposal.

The Rules specify the duties and responsibilities of every stakeholder starting from the waste generators to different government departments/agencies including CPCB and the SPCBs/SPCCs.

6.4.1.1 Inventory of Hazardous Waste

The PCBA has carried out inventory of hazardous waste and has taken up many other activities as per the provision of the Rules. A summary of hazardous waste generation and management status are given in the following Table No. 6.6 and 6.7.

Table No. 6.6: Abstract of Hazardous Waste Management, 2022 - 2023

Name of District	Number of HW Generating Industries	Number of Unit Possesing Authorization	Number of Unit Submitted Annual Returns	Hazardous Waste Generation (in MT per year) within the State (as listed in Schedule-IV)				Total Quantity (MT)	Quantity of HW Imported (MT)	Quantity of HW Exported (MT) (outside the State)
				Landfillable	Incinerable	Recyclable	Utilizable			
Baksa	1	0	0	0	0	0	0	0	0	0
Chirang	3	1	1	2855.15	0	1166.75	30516.35	34538.25	0	0
Bongaigaon	3	2	2	1	0.04	108.13	0	109.17	0	1.789
Cachar	11	11	11	1.5	0	19.63	1.53	22.66	0	0
Hailakandi	1	1	1	0	0	0.82	0	0.82	0	0
Karimganj	3	3	3	0	0	3.151	0	3.151	0	0
Charaideo	5	5	5	0.335	0.21	94.256	30.57	125.371	0	141.085
Darrang	4	4	4	0	0.23	1.725	0	1.955	0	0
Dibrugarh	15	15	8	5155.81	6.385	378.667	806.436	6347.298	0	717.7
Tinsukia	10	10	8	922.48	0.005	712.65	3647.7	5282.835	0	708.53
Golaghat	3	3	3	1035.28	0.018	566.541	34892	36493.83	0	8268.341
Goalpara	5	4	3	2.935	0	286.762	0.97	290.667	0	287.44
Nalbari	2	1	1	0	0	8.299	0.778	9.077	0	0
Sivasagar	3	3	2	3505.72	1.857	13.117	22.166	3542.86	0	0
Nagaon	14	12	7	47.56	0.277	51.951	44.795	144.583	0	
Morigaon	3	1	3	0	0	9.922	0	0	0	
Kokrajhar	1	1	1	10	0	45.68	1.76	57.44	0	0
Karbi Anglong*	2	1	1	0	2.6	0.6	0	3.2	0	0
Sonitpur	10	2	10	0	0.8	20.408	0	21.208	0	0
Hojai	4	4	3	0	0	5.085	0	5.085	0	0
Jorhat*	6	3	5	891.45	1.445	37.489	20.96	951.344	0	0
Dima Hasao	2	2	2	0	0	6.08	0	6.08	1147	0
Kamrup (M)	88	67	48	789.5293	4.914	2146.512	15319.112	18260.067	109.71	361.55
Bajali	0	0	0	0	0	0	0	0	0	0
Barpeta	0	0	0	0	0	0	0	0	0	0
Biswanath	0	0	0	0	0	0	0	0	0	0
Dhemaji	0	0	0	0	0	0	0	0	0	0
Dhubri	0	0	0	0	0	0	0	0	0	0
Lakhimpur	1	0	0	0	0	6	0	0	0	0
South Salmara-Mankachar	0	0	0	0	0	0	0	0	0	0
Majuli	0	0	0	0	0	0	0	0	0	0
Udalguri	0	0	0	0	0	0	0	0	0	0
West Karbi Anglong	0	0	0	0	0	0	0	0	0	0
Kamrup (Rural)	70	67	43	158.2	182.4	2377.6	1705.3	4423.5	0	0
Total	270	223	175	15376.97	201.15	8067.83	87010.47	110640.5	1256.71	10486.44

*Data related to the districts are to be verified

Table No. 6.7: List of Authorized Recyclers / Utilizes / Pre-processors / Co-processors of Hazardous Waste, 2022- 2023

Sl. No.	Name & Address of the Facility	Type of Hazardous Waste authorised for Recycling / Utilization / Co-Processing	Authorised Recycling / Utilization / Co-Processing Capacity (MTA)	Quantity Recycled / Utilized / Co-processed (MT)	Quantity Recycled / Utilized / Co-processed (MT)	
					Imported (From other states)	Other than Imported
A	List of Authorised Recyclers of Hazardous Waste					
1	Kamakhya Power Solutions, 15th Mile, Byrnihat, Kamrup Metro	Used Lead acid battery	9600	3508.42	25	3483.42
2	Modern Lube Industries, A.K Azad Road, Kamrup (M)	Used oil and waste oil	2000	156	NIL	156
3	Shree Sai Vamika Industries, North Guwahati, Kamrup (Rural)	Used Lead acid battery	9600	2514.9	160.535	2354.364
4	Progressive Industries, Rani Industrial Area, Kamrup (Rural)	Used oil and waste oil	1500	72	NIL	72
5	G.S. Lubes, Madalpur, Changsari, Kamrup (Rural)	Used oil and waste oil	1440	592	NIL	592
6	Anubhav Industries, Chatabari, Chayygaon, Kamrup (Rural)	Used Lead acid battery	9600	427.432	NIL	427.432
7	Nirmaan Industries, Amingaon, Kamrup (Rural)	Used Lead acid battery	1200	121.724		
8	Purbanchal Chemicals, Gauripur, Kamrup (Rural)	Used oil and waste oil	3000	Not submitted Annual Returns		
9	RESS Iron and Steel Ltd., IGC Matia, Goalpara	Used Lead acid battery	1000	790	NIL	790
E	List of Authorised Co-processors of Hazardous Waste					
1	Calcom Cement (Dalmia), Umrangsho, Dima Hasao	HW suitable for co-incineration	5000	1695.66	1147.54	548.12
	Total			8182.476		7875.216

6.4.1.2 Directive and Notification

The Pollution Control Board Assam has issued necessary directives to number Industrial units and isolated storages for implementation of the Integrated Guidance framework for Chemical Safety.

- i) Action taken reports have been received from the major units which are under scrutiny. Further correspondence in this regard shall be initiated.
- ii) The Board has notified that submission of Details on Onsite Emergency Plans and Safety reports and Safety Audit reports in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 is mandatory for processing of CTE/CTO applications in respect of the

Isolated Storages and Industries covered under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.

- iii) Monitoring of compliances to the Integrated Guidance framework for Chemical Safety in respect of the Isolated Storages and Industries covered under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 by units operating has been initiated and shall be integrated with the periodic inspection undertaken by officials of the regional offices of the Board.
- iv) The Board has already formulated an SOP for processing consent applications submitted by oil and gas exploration, development and production installations wherein submission of Onsite as well as Offsite Emergency Response Plans have been notified as mandatory for obtaining necessary consent to operate from the Board.
- v) The Board has issued necessary directions to M/S Lakwa Thermal in order to ensure implementation of The MSIHC Rules, 1989 for prevention of chemical accidents.
- vi) Inventorisation of chemical industries covered under the MSIHC Rules, 1989 is under progress.

6.4.1.3 Establishment of Transport, Storage and Disposal facility (TSDF) for Hazardous Waste

On constant pursuance of the Board, the Govt. of Assam has allocated 20 acres of land to M/s Mumbai Waste Management Ltd. for establishment of Transport, Storage and Disposal facility (TSDF) for hazardous waste management integrated with Common Bio-Medical Waste Management Facility (CBWTF) at Lekai, Dibrugarh. This will be first much needed TSDF facility in the State.

6.4.1.4 Consultation Meet

- (a) The Board organised a consultation meet with the Hydrocarbon Industries in association with Numaligarh Refinery Ltd. at Numaligarh. The Meet was conducted to discuss issues pertaining to Environmental Compliance including Hazardous Waste Management.



Consultation meet with the Hydrocarbon Industries at Numaligarh

- (b) A Consultation Meet was successfully conducted by RLO -Sivasagar on 11th March, 2024 at the Office premises pertaining to implementation of the Integrated Guidance framework for Chemical Safety in respect of the Isolated Storage and Industries covered under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 in compliance with the order of Hon'ble NGT in O. A. No. 60/2021. The representatives from OIL; ONGCL Assam Asset, Jorhat Asset; Oilmax; Lakwa Thermal Power Plant; C2+ Recovery plant, Lakwa; BCPL attended the meeting.

6.4.1.5 Workshop on Hazardous Waste Management

The Board organised a workshop on Hazardous Waste Management on 28th August, 2023 from 10.00 AM at the Auditorium of Institution of Engineers (India), Assam State Centre in association with Laghu Udyog Bharati, Purvottar Prant. The Workshop was attended by the senior officials, technical officers and scientific officers of PCBA; members of Laghu Udyog Bharati; representative of hazardous waste generating units; hazardous waste transporters; and of hazardous waste storage facilities from across the State.

In the Workshop, a Memorandum of Understanding (MoU) was also signed between the PCBA and Laghu Udyog Bharati to work together under a set of agreed action points for management of plastic waste.



Dr. Arup Kumar Misra, Chairman, PCBA (left) and moment of signing of MoU with Laghu Udyog Bharati by Dr. Shantanu Kumar Dutta (right) in the Workshop on 28th August, 2023

6.5. E-Waste Management

The important steps taken up by the Board for proper management of E-waste in the State are summarised below –

- i) **Enforcement of E-Waste Management Rules, 2016:** Action has been initiated for implementation of action plan pertaining to enforcement of E-waste Management Rules, 2016. The Pollution Control Board Assam has initiated necessary action to establish a mechanism to address the issue of illegal / informal processing of e-waste in the state of Assam. Accordingly, the Regional offices of the Board have been carrying out frequent drives to check informal trading and dismantling of e-waste and subsequently channelizing the E-waste to authorised agencies.
- ii) **Granting of Authorisation:** The Board has granted authorisation to one (1) dismantling unit in the state. The process of verification of the facilities of dismantling and recycling regarding their compliance status with respect to guidelines of CPCB has been done and reports have already been forwarded to CPCB.
- iii) **Direction Issued:** The bulk consumers located in the State have been directed to channelize the e-waste generated in the premises to authorised agencies only. E-waste collection drives have been undertaken to check illegal dismantling. The Board has initiated correspondence with the state government in this regard.
- iv) **Awareness Programme:** An Awareness Programme cum Workshop on Environmentally Sound Management of E-waste was conducted by the Board at its Conference Hall in the Head Office on 01st December, 2022.



Snapshots of Awareness Programme cum Workshop on E-Waste Management

The Board also organised a number of similar awareness programmes in association with different NGOs, PROs, recyclers etc. as part of the IEC campaign for environmentally sound E-waste management.

- v) **E-waste Detox Drive:** With the support of Pollution Control Board of Assam, Earthful Foundation, a local NGO, successfully completed the Drive across Guwahati city from 4th to 12th January, 2023. Electronic Waste Detox Drive is an awareness and collection initiative for proper handling of electronic waste generated at household, industrial and institutional level. During this drive, 3000 kgs of electronic waste was collected and handed over to recycling partner Hulladek for its proper recycling and disposal. Citizens and students from across the city actively participated in this drive.



Chairman, PCBA, Dr. Arup Kumar Misra inaugurated the E-Waste Detox Drive in presence of ED, Guwahati Refinery



E-Waste Detox Drive organised by Earthful Foundation, a local NGO, with the support of Pollution Control Board of Assam

- vi) **Workshop:** The Board organised a workshop in collaboration with Hulladek Recycling Private Limited on 1.12.2022 with an objective to sensitize various stakeholders including PSUs, educational Institutions, and government agencies regarding E-waste management. Multiple media campaigns on E-Waste management have also been initiated.

6.6 Plastic Waste Management

Pollution Control Board, Assam has taken many actions to implement the Rule 4(2) of the Plastic Waste Management (Amendment) Rules, 2021 and 4(1) (c) of Plastic Waste Management Rules, 2016 and its Amendment Rules, 2021, which prohibits the – “manufacture; import; stocking; distribution; sale and use of following Single Use Plastics (SUP), including polystyrene and expanded polystyrene commodities with effect from 01st July, 2022”. The prohibited items are –

- a) ear buds with plastic sticks, plastic sticks for balloons, plastic flags, candy sticks, ice-cream sticks, polystyrene (thermocool) for decoration;
- b) plates, cups, glasses, cutlery such as forks, spoons, knives, straws, trays, wrapping or packing films around sweet boxes, invitation cards and cigarette packets, plastic or PVC banners less than 100 micron, stirrers;
- c) carry bags made of virgin or recycled plastic with less than 120 micron thickness.

A summary of the activities taken up by the Board for proper implementation of the ban on identified SUPs is presented below –

6.6.1 Directions and Initiatives

- a) The Board has issued public notice prohibiting the – “manufacture; import; stocking; distribution; sale and use” of banned SUPs in the state of Assam.
- b) The PCBA has set up a State Control Room (SCR) to monitor enforcement of the SUP ban.
- c) PCBA has taken actions to ensure that all six (6) registered SUP manufacturing units located in Assam stop manufacturing of prohibited SUP items like plastic cups, spoons, etc. All 6 units have shifted operations to manufacturing of compostable/biodegradable commodities.
- d) The joint teams of local bodies and PCBA are carrying out regular inspections for enforcement of the SUP ban.
- e) Enforcement of ban on identified Single Use Plastic (SUP) items as per the Plastic Waste Management Rules, 2016 and its Amendments. About 7000 inspections have been carried out by the PCBA and ULBs. More than 966 violations have been detected, more than 69,844 kg of SUP items has been seized and fine worth of Rs. 8,29,731/- has been imposed on violators during the period from 1st July 2022 to 30th April, 2024.



Market Inspection cum Seizure Drives against banned SUPs carried out by the Officials of the Board with other members of the Task Force across the state, 2023-2024



Market Inspection cum Seizure Drives against banned SUPs carried out by the Officials of the Board with other members of the Task Force across the state, 2023-2024

6.6.2 IEC Activities: Mass Awareness Programme

- To create awareness among the common people, the Board has regularly posted public notices, awareness messages and infographics on banned SUP items and their alternatives on social media platforms; viz. Facebook; Instagram and Twitter; telecast awareness message on SUP ban through local satellite channels and published awareness messages and infographics in print media.

Notice on prohibition of SUPs as well as list of prohibited SUPs have been uploaded on the website and social media platforms of the Board for greater publicity and awareness.



Selected posts on Single Use Plastic in social media platforms, 2022-2024

- Public announcement through vehicle-mounted loud speakers was carried out in markets by PCBA.
- The Board organised several meetings and workshops for stakeholders along with the extensive awareness campaign and market survey, even before the day of actual enforcement of the ban on selected SUPs.
- The Board organized training programme/meeting with – ULBs; Hotels and Restaurants Association of Assam; Laghu Udyog Bharati; PIBOs and PWP regarding registration on EPR portal along with awareness camps in educational institutions for the children.
- The PCBA in association with Niloy (NGO) organised workshops in different schools in the months of January to March, 2024 to raise awareness on single use plastic pollution and also distributed cloth bags as a gesture to encourage people to use cloth bags and other bags made of bio-degradable materials in place of single use plastic bag.



Awareness Programme on SUP organised by PCBA in association with Niloy (NGO) at Hengrabari High School, Guwahati on 29-01-2024



Awareness Programme on SUP organised by PCBA in association with Niloy (NGO) at Dr. S Radhakrishnan Academy, Guwahati on 07-02-2024



Awareness Programme on SUP organised by PCBA in association with Niloy (NGO) at Kaliram Baruah Girls' High School, Guwahati on 16-02-2024



Awareness Programme on SUP organised by PCBA in association with Niloy (NGO) at Kaliram Natun Fatasil, Guwahati on 19-03-2024

6.6.3 Management and Disposal of Plastic Waste

- a) Pollution Control Board Assam is registering all plastic waste recyclers and plastic producers to ensure proper implementation of Extended Producer Responsibility (EPR). Under EPR, plastic producers and brand owners are liable for recycling and disposal of the plastic packaging introduced by them into the market.
- b) The Calcom Cement Limited, Umrangso has been authorized by the Board for co-incineration of non-recyclable plastic waste. The cement plant is monitored to ensure that necessary pollution control measures are adopted. Around 14877 MT of plastic waste recovered during bio-mining of legacy waste at Guwahati has already been co-incinerated at Dalmia Cement Bharat Limited, Lumshnong, Meghalaya.

c) Status of Implementation of Plastic Waste Management Rules, 2016 in the Year 2022

● Plastic Waste Generation	: 83.4214 TPD
● Plastic Waste Collected	: 61.098 TPD
● Plastic Waste Processed	: 50.6719 TPD
● Capacity of registered Plastic Manufacturing Units (TPD)	: 328
● Total Number of ULBs	: 104
● No. of ULBs provided complete Annual Report	: 74
● Total No. of Gram Panchayat	: 2201
● No. of registered producers/brand owners/importers as per Rules 9 and 13 of PWM Rules	: 67
● Number of registered plastic waste recyclers	: 14
● Capacity of recyclers	: 32886
● Quantity of waste co-processed in plastic waste in Cement Kilns	: 26
● No. of registered units manufacturing compostable plastic	: 1
● Total capacity of Units manufacturing compostable plastic	: 360 TDP
● Imposition of ban on plastic carry bags	: Yes
● Status of action taken on non-compliance of PWM Rules	: PCBA is monitoring all plastic producers and recyclers to ensure compliance
● Status of marking & labelling on plastic carry bags and multi layered packaging (Rule 11)	: Implemented
● Engagement of civil societies / groups with waste Pickers [Rules 6 (f)]	: Engaged by ULBs
● Action taken w.r.t. creation of awareness among stakeholders [Rules 6 (e)]	: Workshops and other IEC activities

6.7 Solid Waste Management

The Pollution Control Board, Assam, in exercising power and delivering duties and responsibilities under the Solid Waste Management Rules, 2016, has issued notices and guidelines to the Urban Local Bodies (ULBs) to ensure proper implementation of the Rules. The Board also organised a number of meetings and workshops to sensitize the municipal bodies on solid waste management practices. The status of solid waste management in the ULBs of the State for the year 2022 is presented below –

Solid Waste Management Status, 2022

- Solid Waste Generation in the State : 1284 TPD
- Solid Waste Collection : 1030 TPD
- Solid Waste Treated : 652 TPD
- Landfilled Waste : 340 TDP
- Total number of city/towns : 104
- Total number of Urban Local Bodies : 104
- Good practices in cities/towns : The waste to wealth initiative of Bijni Municipal Board presents a traditional approach for empowering women through active participation of SHGs and positively altering agricultural practices. Women self-help groups have been trained by the Department of Agriculture, Bijni and with the joint effort of different SHGs of Bijni Town about 500 Kg of vermincompost is ready for sale.
- House to House collection : Practised in all ULBs
- Solid Waste Processing Facilities setup (Composting) and Processing Capacity : 5 Nos. with total capacity 333 TDP
- Solid Waste Processing Facilities setup (Bio-Gas) and Processing Capacity : 1 No. with total capacity 7.5 TDP
- Processing Facilities operational (Composting) and Processing Capacity : 4 Nos. with total capacity 123 TDP
- Processing Facilities operational (Bio-Gas) and Processing Capacity : 1 No. with total capacity 7.5 TDP
- Processing Facilities under installation (Composting) and Processing Capacity : 1 No. with total capacity of 150 TDP
- Processing Facilities under installation (Bio-methanation) and Processing Capacity : 1 No. with total capacity of 60 TDP
- Landfill sites identified : 104
- Landfill constructed : 1
- Landfill under construction : 1
- Landfill in operation : 1
- Landfill exhausted : 1

- Landfill capped : 1 (Bio-mining under process)
- Dumpsites reclaimed/capped : 3 (under process)
- Monitoring at waste processing / landfill sites : Waste processing facility at Boragaon (under Guwahati Municipal Corporation)
- Ambient Air : SO₂ and NO₂ within permissible limit
- Ground Water parameters within permissible limit (Ground Water near the facility)

6.8 Bio-medical Waste Management

6.8.1 Implementation of Bio-Medical Waste Management Rules, 2016

Bio-medical waste (BMW) is a health hazard. Disposal of untreated BMW may lead to severe land and water contaminations. It may spread many diseases too. To ensure safe handling, storage, treatment and disposal of such waste, the Ministry of Environment, Forests and Climate Change, Government of India notified the Bio-Medical Waste Management Rules, 2016 under the Environment (Protection) Act, 1986 on 8th April, 2016 in supersession of the Bio-Medical Waste (Management and Handling) Rules, 1998. The Board has been implementing designated provisions of the Rules in the State. The present status of Bio-medical Waste Management in Assam for the year 2022 is presented below –

1. Total No. Health Care Facility/Occupiers	1537
i. Bedded Hospitals and Nursing Homes (Bedded)	767
ii. Clinic and Dispensaries	289
iii. Veterinary Institutions	115
iv. Animal Houses	7
v. Pathological Laboratory	327
vi. Blood Bank	15
vii. Clinical Establishment	15
viii. Research Institutions	1
ix. AYUSH	1
2. Total No. of Beds	30423
3. Status of Authorization	
i. No. of Occupiers applied for authorization	446
ii. No. of Occupiers granted Authorization	276
iii. No. of application under consideration	159
iv. No. of applications rejected	4
v. No. of Occupiers in operation without applying for authorization	1100
4. Quantity of Bio-medical Waste generation (in kg / day)	8229.3194
i. Bio-medical Waste generated by bedded hospital	7395.967
ii. Bio-medical Waste generated by non-bedded hospital	833.3524
iii. Any others	0

5. Bio-medical Waste treatment and disposal (kg / day)	
a) By captive bio-medical waste treatment & disposal by Health Care Facilities	
i. No. of Health Care Facilities having Captive treatment & disposal facilities	597
ii. Total Bio-medical Waste treated & disposed by Captive treatment facilities (kg / day)	3068.45
b) Bio-medical Waste treated & disposed by Common bio- medical waste treatment facilities	
i. No. of Common bio-medical waste treatment Facilities in operation	2
ii. No. of Common bio-medical waste treatment Facilities under construction	0
iii. Total bio-medical waste treated in kg / day	2140.48
iv. Total treated bio-medical waste disposed through authorised recyclers (kg / day)	755
6. Total number of violation by	
i. Health Care Facilities (bedded and non-bedded)	482
ii. Common Bio-medical Waste Treatment Facilities	0
iii. Others	2140.48
7. Show Cause Notice / Direction Issued to Defaulters	
i. Common Bio-medical Waste Treatment Facilities	1
ii. Others	80
8. Any other relevant information	
i. No. of Workshops / Training conducted during the year	5
ii. No. of occupiers installed liquid waste treatment facility	778
iii. No. of Captive Incinerator complying to the Nos.	28
iv. No. of Occupiers organised training	139
v. No. of Occupiers constituted bio-medical Waste management committee	526
vi. No. of Occupiers submitted Annual Report for the previous calendar year	215
vii. No. of Occupiers practising pre-treatment of Lab microbiology & Bio-Technology Waste	225
viii. No. of Common Bio-medical Waste Treatment Facilities that have installed Online Emission Monitoring System	1

6.8.2 Establishment of CBWTF

The Board facilitated the setting up of the second Common Bio-medical Waste Treatment Facility (CBWTF) of Assam at Bajali, Bajali district, which is designed to cover the Bajali, Barpeta, Goalpara, Bongaigaon, Kokrajahr, Chirang and Dhubri districts of the State.

6.8.3 Training cum Awareness Drive on Bio-medical Wastes Management

Pollution Control Board, Assam has organised a series of one-day training program cum awareness drive on "Safe Handling and Disposal of BMW at Healthcare Facilities across the State. The essence of these programmes is presented below –

i) Training cum Awareness Programme on BMW Management and proper implementation of Barcode System

The Board organized an awareness meet on issues related to Bio Medical Waste Management (BMW) and proper implementation of Barcode System together with installation of GPS in BMW carrying vehicles in collaboration with Apollo Hospitals and Sri Sankardeva Nethralaya in the Nethralaya Auditorium on 21st September, 2022. The Chairman, PCBA; Principal, GMCH; Member Secretary, PCBA; Director, Sri Sankardeva Nethralaya; and other dignitaries spoke on the occasion. The representatives from a large number of health care facilities participated in the meet.



A few moments of the Training on BMW at Sri Sankardeva Nethralaya, Guwahati

ii) Training cum Awareness Programme on Safe Handling and Disposal of BMW at Healthcare Facilities

The PCBA organised a series of one-day training cum awareness programme on Safe Handling and Disposal of BMW at Healthcare Facilities and in association with WHO, and iFOREST – NGO. In the year 2023-2024, the Board organised three (3) such programmes in three zones of Assam –

- Training cum Awareness Programme at Sri Sankardeva Nethralaya, Guwahati on 22nd May, 2023;
- Training cum Awareness Programme at Jeevan Jyoti Healthcare and Research Centre, Silchar on 09th February, 2024;
- Training cum Awareness Programme at Dibrugarh on 12th February, 2024.



Training Programme on BMW Management at Sri Sankardeva Nethralaya, Guwahati



Training Programme on BMW Management at Silchar on 09th February, 2024



Training Programme BMW Management at Dibrugarh on 12th February, 2024



Training Programme BMW Management at Dibrugarh on 12th February, 2024

Dr. Arup Kumar Misra, Chairman, PCBA; Dr. Shantanu Kumar Dutta, Member Secretary, PCBA, Shri Gokul Bhuyan, ACEE; representative of WHO and iFOREST; invited guests/ resource persons; and other senior officials of the Board deliberated on different issues pertaining to the bio-medical waste management in the health care facilities. The programmes were attended by a large number of participants from different health care facilities of the respective zone.

CHAPTER VII

Industrial Pollution Management

The principal mandate of the Board is to work towards ensuring pollution-free environment and to promote sustainable industrial growth in the State under the purview of the Water Act and Air Act in place. In pursuing its mandates, the PCBA has been using different instruments to monitor and regulate the industrial activities as outlined below –

7.1 Consent Management

One of the main tasks of the Board is to issue consents to industries/processing units/ other developmental and business activities in compliance with the provisions of Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 and the Rules framed thereunder. The consent needs to be obtained in two phases – Consent to Establish (CTE) and Consent to Operate (CTO).

The Consent to Establish (CTE) is to be obtained prior to carrying out any construction work at the proposed site to establish industry / other unit or for expansion of existing plant / diversification of existing unit. Although, the CTE is a onetime process but it should be renewed if the unit is not commissioned within the stipulated time as specified in CTE conditions. Further, if renewal of CTE is not sought within the validity period, fresh application has to be made.

The CTE is followed by the Initial Consent to operate for one year and subsequent annual renewal or renewal in time as specified by the Board as Consent to Operate (CTO). At present the PCBA is granting CTO for a maximum period of five (5) years at one go under given conditions to selected categories of industries.

7.2 E-governance Initiative

Pollution Control Board, Assam has been providing complete online, hassle free and time bound Consent Management services under Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 since 2016 in pursuant to the Ease of Doing Business Act 2016 (EoDB) of Government of Assam. Presently, the Board is using *OCMMS – Online Consent Management and Monitoring System*, portal developed by NIC, Delhi for the processing of CTE and CTO. The PCBA has specified a window of 50 days' time to issue CTE and CTO from the date of receiving the respective applications, which are otherwise completed

in all aspects. Now, an industry can apply for all consents related services through online simply through <https://eodb.assam.gov.in/> or <http://asocmms.nic.in/OCMMS/>. The Board has successfully integrated EoDB and OCMMS to facilitate hassle free processing of consents and authorizations to entrepreneurs, institutes and business houses.

The Board is also providing Authorization Management services under Hazardous Waste and Other Wastes (Management and Transboundary Movement) Rules, 2016 and Amended Rules, 2022; E-waste (Management) Rules, 2016; and Registration under Plastic Waste Management Rule, 2016 and Amendment Rules, 2021 through online service.

7.3 Consolidated Consent and Authorization (CC&A) Management

Besides streamlining and simplifying the regulatory regime of consents and authorizations management, the Board has taken a bold initiative in the form of introduction of 'Consolidated Consent and Authorization' (CC&A) management system, which provides for a one shot application and clearance of the consents under Water Act, Air Act, and Authorization under Hazardous Wastes Management Rules / Bio Medical Waste Management Rules.

7.4 Consents Applications Disposal Status, 2023-2024

The Board has issued a total number of 2082 Consent to Establish (CTE) certificates and 12411 no. of certificates for Consent to Operate (CTO) to different industrial and service sector units in the year 2021-2023. The Regional Office wise consents applications disposal status during the given period is presented in the Table No. 7.1 and 7.2.

Table No. 7.1: Consent to Establish Industries: Status of Applications, 2023-2024

Sl. No.	Regional Office / Regional Laboratory cum Office	Consent to Establish Industries: Status of Applications		
		Period: April 2022 to March, 2023		
		Received	Issued	Rejected
1	RO, Dibrugarh	237	192	49
2	RLO, Sivasagar	155	123	32
3	RO, Golaghat	51	32	19
4	RLO, Tezpur	107	59	48
5	RO, Nagaon	296	240	46
6	RLO, Silchar	130	114	16
7	RLO, Bongaigaon	163	105	58
8	RO, Guwahati	141	94	47
9	RO, Kamrup	140	100	40
10	South Bank	82	50	32
	Total	1502	1109	387

Table No. 7.2: Consent to Operate Industries: Status of Applications, 2023 - 2024

Sl. No.	Regional Office / Regional Laboratory cum Office	Consent to Operate Industries: Status of Applications		
		Period: April 2022 to March, 2023		
		Received	Issued	Rejected
1	RO, Dibrugarh	222	153	69
2	RLO, Sivasagar	147	119	28
3	RO, Golaghat	124	57	67

4	RLO, Tezpur	196	156	140
5	RO, Nagaon	320	260	60
6	RLO, Silchar	143	120	23
7	RLO, Bongaigaon	224	174	50
8	RO, Guwahati	162	150	12
9	RO, Kamrup	162	127	58
10	South Bank	-	-	-
Total		1700	1316	507

7.5 Implementation of BRAP (Business Reform Action Plan), 2022-2024

In order to create investor-friendly ecosystem across India, the Government of India started a comprehensive reform exercise called Business Reforms Action Plan (BRAP) in the year 2015. The broader aim of this Plan is to boost investor confidence, foster business friendly climate and augment Ease of Doing Business to make the life of the citizens easier across the country by introducing an element of healthy competition through a system of assessing states based on their performance in the implementation of Business Reforms Action Plan. Out of 352 action points incorporated in the BRAP-2022, PCBA is involved with 41 (forty one) BRAP reform points and the Board has successfully complied with all the BRAP points.

7.6 Establishment of TSDF

The Board is instrumental in facilitating the setting up the first Transport, Storage and Disposal Facility (TSDF) at Lekai, Dibrugarh for management of Industrial Hazardous Waste. The project is in implementation stage.

7.7 Public Hearing

The Board is also mandated to conduct public hearing before granting consent to establish for siting of new industries or expansion of the existing one after the industry in question receives clearance from the concerned authorities as per the Environmental Impact Assessment Notification 2006 and its Amendments. The Board assigned the responsibility of conducting the Public Hearing with due approval of the Head Office



Photograph of Public Hearing conducted by the Board



Snapshots of public hearings conducted by PCBA

following all laid procedure. The Regional Office wise number of public hearings conducted by the Board in the year 2023-2024 is given below –

7.8 Adoption of Zig-Zag Technology for Brick Kilns

Zig-Zag Technology for brick kilns as well as Piped Natural Gas as fuel are rapidly gaining acceptance for their very low pollution potential and economy in the long run. In pursuant to the directive of the National Green Tribunal (NGT), the Board has issued directive to all brick kilns of the State to adopt Zig-Zag Technology or Piped Natural Gas as fuel. Now, without adopting either of the technology no CTE shall be issued by the Board to any brick kiln to be set up.

The Regional Offices of the Board have organized many discussions cum meeting with the brick kiln associations and brick kiln owners across the State to raise awareness on the issue and modality of adoption of the said technologies in brick kilns of the State.

7.9 Visit cum Inspection

To ensure industries that they adopt adequate pollution control devices / measures as well as the state of their functioning and compliance with the provisions of the Acts and Rules, the officials of the Board have been visiting the industrial units regularly. The Chairman and the Member Secretary of the Board also visited different industrial units across the State to make sure that provisions of the Acts and Rules were complied with in true spirit and to encourage them to switch to cleaner technology and sustainable industrial management practices.

For instance, the Regional Office Guwahati of the Board has carried out more than 20 inspections of various units during this year and issued 319 notices to various defaulting units including – hotels; healthcare facilities; dental clinics; restaurants; automobile establishments; and marriage halls, among others, for



Chairman, PCBA (left) and Member Secretary, PCBA (right) during Inspection of different industrial sites



Chairman, PCBA (left) and Member Secretary, PCBA (right) during Inspection of different industrial sites Officials of PCBA during Inspection of different industrial units

regularization of Consent to Establish (CTE) / Consent to Operate (CTO) for ensuring compliance with the regulatory requirements. The other Regional Offices are also doing similar activities to ensure that industrial processes are going on as per the provision of the Acts and Rules.




Officials of the Board during monitoring of industrial Waste Water and Emission

7.10 Monitoring


The Board has adopted a transparent mechanism for periodical monitoring of industrial emissions, effluent and noise level to ensure the compliance of prescribed standards by industrial units. The Board has been carrying out such monitoring on its own and also accepted the monitoring reports of the authorised 'Third Party'.

7.11 Public Notice

The Board has issued many public notices/ directions/ guidelines to the industrial houses and service sector units in the last two (2) years, utilizing the power conferred under Acts and Rules, to keep the units updated with the provisions of Acts and Rules as well as to ensure their compliance. The gist of a few such public notices/ directions/ guidelines is presented below:




POLLUTION CONTROL BOARD, ASSAM
(Department of Environment & Forests, Government of Assam)
অসম প্রদূষণ নিয়ন্ত্রণ পৰিষদ
(অসম চৰকাৰৰ বন আৰু পৰিবেশ বিভাগ)
SABE Accredited Testing Laboratory : Certificate No. TC-11384



No WB/T-218/19-20/Part-I/19

Dated Guwahati, the 1st Jan, 2024

Public Notice



Sub: Compliance of E-waste (Management) Rules, 2022 – reg.

The Ministry of Environment Forest and Climate Change (MoEF&CC), Govt. of India has notified the E-waste (Management) Rules, 2022 vide notification No GSR801(E) dated November 02, 2022, which have come into effect from April 01, 2023. In compliance with the provisions of the E-Waste (M) Rules, 2022, an online EPR E-Waste portal has been developed by Central Pollution Control Board (CPCB) where entities such as Producers, Manufacturers, Recyclers, and Refurbishers of the E-Waste are required to be registered. The portal is available at URL <https://eprewastecpcb.in/>

In accordance with the provisions of the aforementioned Rules, all the Manufacturers, Producers of Electrical and Electronic Equipment (EEE) including entities who offers to sell under their own brand assembled and imported EEES, importers of the used EEES, Recyclers and Refurbishers of E-Waste within the State of Assam are hereby directed to immediately register on the said EPR Portal. In case any of the aforementioned entities are found to be operating their business within the State without registration on the Portal, necessary legal action shall be initiated as per provisions of the existing legislations.

Please treat the matter with utmost priority.

Yours sincerely,

\


(Shantanu Kr. Dutta)
Member Secretary

Memo No WB/T-218/19-20/Part-I/19 - A
Copy to:

Dated Guwahati, the 1st Jan, 2024

2335

1. Sri Anand Kumar Director & DH, WM-III Division, Central Pollution Control Board, "Parivesh Bhawan", East Arjun Nagar, Shahdara, Delhi – 110032. Email: wm3.cpcb@gov.in
2. All Regional Heads, RO/RLO, Guwahati / Kamrup (R)/ Tezpur/ Nagaon/ Golaghat/ Sivasagar/ Dibrugarh/ Bongaigaon/ Silchar, Pollution Control Board, Assam.
3. P.A. to the Chairman, PCBA for kind appraisal of the Hon'ble Chairman.
4. The EITO, Pollution Control Board, Assam for uploading in the Board's Website.


(Shantanu Kr. Dutta)
Member Secretary



Pollution Control Board:: Assam
Bamunimaiadam, Guwahati-21

PUBLIC NOTICE

No. WB/G-295/21-22/284

Dated Guwahati the 11th August, 2023

Sub: Directions to Hotels, Health Care Facilities and Automobile Service Stations in the State.

All the Hospitals, Hotels, Resorts and Automobile Service Centres in the State are hereby directed to install a Treated Water Storage Tank (TWST) with a minimum capacity of 10 KL to store the treated water from the ETP/STP by October 15, 2023. The tank may be installed either over ground or underground. There should not be any bypass system of the ETP and treated water should be routed mandatorily into the TWST from which the Board shall collect samples for verification of compliance and examine the adequacy of the ETP. All the units must install flow meter at the discharge line from the TWST and records must be maintained accordingly.

Failing to comply with the above condition shall attract a minimum environmental compensation fine of Rs. 5000/- per day w.e.f. October 02, 2023.

/
(Shantanu Kr. Dutta)
Member Secretary

Memo No. WB/G-295/21-22/284-A,
1237

Dated Guwahati the 11th August, 2023

Copy to:

1. The all Regional Heads, ROs, PCBA.
2. P.A. to the Chairman, PCBA for kind appraisal of the Hon'ble Chairman.
3. WhatsApp – Parivesh Asom group/Website/Social Media Platform of PCBA.

Shantanu Kr. Dutta
Member Secretary

**Pollution Control Board, Assam**

(Department of Environment & Forests, Government of Assam)

অসম প্রদূষণ নিয়ন্ত্রণ পৰিষদ

(অসম চৰকাৰৰ বন আৰু পৰিৱেশ বিভাগ)

NABL Accredited Testing Laboratory : Certificate No. TC-11384

**LIFE**
Lifestyle for
Environment

No.WB/T-218/19-20/Part-I/19

Dated Guwahati, the 1st Jan, 2023**Public Notice**

Sub: Compliance of E-waste (Management) Rules, 2022 – reg.

The Ministry of Environment Forest and Climate Change (MoEF&CC), Govt. of India has notified the E-waste (Management) Rules, 2022 vide notification No. GSR801(E) dated November 02, 2022, which have come into effect from April 01, 2023. In compliance with the provisions of the E-Waste (M) Rules, 2022, an online EPR E-Waste portal has been developed by Central Pollution Control Board (CPCB) where entities such as Producers, Manufacturers, Recyclers, and Refurbishers of the E-Waste are required to be registered. The portal is available at URL <https://eprewastecpcb.in/>.

In accordance with the provisions of the aforementioned Rules, all the Manufacturers, Producers of Electrical and Electronic Equipment (EEE) including entities who offers to sell under their own brand assembled and imported EEES, importers of the used EEES, Recyclers and Refurbishers of E-Waste within the State of Assam are hereby directed to immediately register on the said EPR Portal. In case any of the aforementioned entities are found to be operating their business within the State without registration on the Portal, necessary legal action shall be initiated as per provisions of the existing legislations.

Please treat the matter with utmost priority.

Yours sincerely,

(Shantanu Kr. Dutta)
Member Secretary

Memo No.WB/T-218/19-20/Part-I/19 - A

Dated Guwahati, the 1st Jan, 2023

Copy to:

- 2335
1. Sri Anand Kumar Director & DH, WM-III Division, Central Pollution Control Board, "Parivesh Bhawan", East Arjun Nagar, Shahdara, Delhi – 110032. Email: wm3_cpcb@gov.in
 2. All Regional Heads, RO/RLO, Guwahati / Kamrup (R)/ Tezpur/ Nagaon/ Golaghat/ Sivasagar/ Dibrugarh/ Bongaigaon/ Silchar, Pollution Control Board, Assam.
 3. P.A. to the Chairman, PCBA for kind appraisal of the Hon'ble Chairman.
 4. The EITO, Pollution Control Board, Assam for uploading in the Board's Website.

(Shantanu Kr. Dutta)
Member Secretary



**Pollution Control Board:: Assam
Bamunimaadam, Guwahati-21**



PUBLIC NOTICE

No. WB/G-295/21-22/282

Dated Guwahati the 11th August, 2023

Sub: New Environmental Standards for Hot Mix Plant.

It is for general information that the Ministry of Environment Forest and Climate Change, Govt. of India has notified the Environment (Protection) second Amendment Rules, 2023 vide G.S.R.376(E) dtd. 18th May, 2023 pertaining to Hot Mix Plant. The salient features are as under –

1. Particulate matter concentration in stack emission.
 - i) Hot Mix Plant (Batch type) - 150 mg/Nm³
 - ii) Hot Mix Plant (Drum type) - 300 mg/Nm³
2. Siting criteria for installation of Hot Mix Plant.
 - a) 1 km from boundary of cities and towns.
 - b) 0.50 km from habitation.
 - c) 0.20 km from National or State Highways (from centre line).
 - d) 0.50 km from School or College and temples.
 - e) 1 km from Hospital, Court and Tourist spot.
3. In case any existing HMP is not compliant to the siting criteria at para – 2 above, the unit has to erect 6 metre high compound wall of G.I. sheets along the plot periphery.
4. The HMP shall be equipped with proper air pollution control devices:
 - a) Drum type - Cyclone or multi-clones with wet scrubber.
 - b) Batch type - Multi-clones with bag filters.

PCBA shall enforce the above new Standards which will be effective from **17th November, 2023.**

(Shantanu Kr. Dutta)
Member Secretary

Dated Guwahati the 11th August, 2023

Memo No. WB/G-295/21-22/282-A,
Copy to: 1235

1. The all Regional Heads, ROs, PCBA.
2. P.A. to the Chairman, PCBA for kind appraisal of the Hon'ble Chairman.
3. WhatsApp – Parivesh Asom group/Website/Social Media Platform of PCBA.


Member Secretary



**Pollution Control Board:: Assam
Bamunimaiadam, Guwahati-21**

PUBLIC NOTICE

No. WB/G-295/21-22/283

Dated Guwahati the 11th August, 2023

Sub: Issue of Consent and Authorization to Waste Collectors.

PCBA takes a decision to stop issuing of Consent and Authorization to Waste Collectors as management of hazardous and non-hazardous waste generated in any industry is solely a responsibility of the occupier. All the occupiers of hazardous and non-hazardous wastes are hereby directed to ensure that such waste are disposed of as per the provisions of the hazardous wastes (Management and Transboundary movement) Rules, 2016, Plastic Waste Management Rules, 2016, Solid Waste Management Rules, 2016 as amended, E-Waste Management Rules, 2016 and Battery Waste Management Rules, 2016. The occupiers of such wastes shall keep record of final disposal of various wastes and submit annual return to PCBA as per the provisions of the Rules, as applicable.

/
(Shantanu Kr. Dutta)
Member Secretary

Memo No. WB/G-295/21-22/283-A,
1236

Dated Guwahati the 11th August, 2023

Copy to:

1. The all Regional Heads, ROs, PCBA.
2. P.A. to the Chairman, PCBA for kind appraisal of the Hon'ble Chairman.
3. WhatsApp – Parivesh Asom group/Website/Social Media Platform of PCBA.

12/8/23
Member Secretary



Pollution Control Board:: Assam
Bamunimaidam; Guwahati-21
(Department of Environment & Forests :: Government of Assam)
Phone: 0361-2652774 & 2550258; Fax: 0361-2550259
Website: www.pcbassam.org



No. WB/T-298/21-22/74

Dated Guwahati, the 31st August, 2022

PUBLIC NOTICE

This is for information of all concerned that the **Packaged Drinking Water Manufacturing Units** fall under the definition of **Producers, Importers and Brand Owners (PIBOs)** as per Plastic Waste Management Rules, 2016, as amended, either as **Producer** (if the units producing PET bottles by blow moulding of PET Preform through and) or as a **Brand Owner** (if the units do not produce PET bottles but sell the products with their brand name).

As per Rule 13 of the said Rules, all PIBOs are required to obtain Registration through the centralized EPR portal. A Public Notice regarding requirement of Registration was already issued by the Board vide No. WB/T-298/21-22/52 dtd. 18-08-2022.

All **packaged drinking water manufacturing units** operating in the State of Assam are hereby directed to apply for Registration, as applicable, through the centralized EPR portal (<https://www.eprplastic.cpcb.gov.in/plastic>) within **fifteen (15) days** from the date of issue of this Notice. If the units fail to comply with the directive, necessary action shall be initiated as per the provisions of the Environment (Protection) Act, 1986.

/

(Shantanu Kr Dutta)
Member Secretary

Memo. No. WB/T-298/21-22/74-A

Dated Guwahati, the 31st August, 2022

Copy to:

1. P.A to the Chairman, PCBA- for kind appraisal of the Hon'ble Chairman.
2. ✓ All Packaged Drinking Water Manufacturing Units in Assam.

Shantanu Kr Dutta

(Shantanu Kr Dutta)
Member Secretary



**Pollution Control Board:: Assam
Bamunimaidam; Guwahati-21**

(Department of Environment & Forests :: Government of Assam)
Phone: 0361-2652774 & 2550258; Fax: 0361-2550259
Website: www.pcbassam.org

No. WB/T-298/21-22/79
1261

Dated Guwahati the 7th of September, 2022

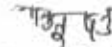
Public Notice

This is for kind attention of all **Cement Plants** in the state of Assam that Cement manufacturing units fall under the definition of Brand Owners as per plastic Waste Management Rules, 2016 as amended. Brand Owners have the liability under Extended Producers Responsibility (EPR) to manage post consumer plastic packaging introduced by them into the market.

As per Rule 13 of the said Rules, Brand owners are required to obtain registration through the centralized EPR portal. A public notice regarding requirement of registration was already issued by the Board vide No. WB/T-298/21-22/52 dtd 18-07-22.

All Cement manufacturing units operating in the state of Assam are hereby advised to apply for Registration as applicable, through the centralized EPR portal (<https://www.eprplastic.cpcb.gov.in/plastic>) within 15 days from the date of issue of this notice.

Brand owners falling under Micro and Small Enterprises Category, as per the criteria of Ministry of Micro, Small and Medium Enterprises, Government of India, are exempted from obtaining the said Registration.



(Shantanu Kr Dutta)
Member Secretary

Memo. No. WB/T-298/21-22/79-A
1261

Dated Guwahati the 7th of September, 2022

Copy to:

1. P.A to the Chairman, PCBA- for kind appraisal of the Hon'ble Chairman.
2. All cement manufacturing units in the state of Assam.

/

(Shantanu Kr Dutta)
Member Secretary



Pollution Control Board, Assam

(Department of Environment & Forests, Government of Assam)

অসম প্রদূষণ নিয়ন্ত্রণ পৰিষদ

(অসম চৰকাৰৰ বন আৰু পৰিবেশ বিভাগ)

SABL Accredited Testing Laboratory : Certificate No. TC-11384



No. WB/T-319/22-23/25

Dated: Guwahati, the 18th of December, 2023

2240

PUBLIC NOTICE



Subject: Implementation of guidelines on EPR for plastic packaging - reg.

Whereas, it is observed that most of the Producer, Importer & Brand Owner (PIBOs) and Plastic Waste Processor (PWPs), registered through the centralized EPR portal have not fulfilled their EPR obligations including filing of annual report. Therefore, the following directions are issued to all PIBOs and PWPs for immediate action:

1. All PIBOs are directed to procure EPR certificates for fulfilling the EPR obligations immediately.
2. All PIBOs and PWPs are directed to submit Annual Returns through the EPR portal immediately.
3. All PWPs are directed to ensure that EPR certificates are generated in accordance with CPCB's guidelines such as uploading of GST invoices corresponding to sales etc.

Failure to comply with the above directions shall lead to levying of Environmental Compensation Fine (ECF) as per the existing guidelines.

(Shantanu Kr. Dutta)
Member Secretary

Memo WB/T-319/22-23/25-A

Dated: Guwahati, the 18th of December, 2023

Copy to:

1. All PIBOs and PWPs in the State of Assam.
2. P.A to the Chairman, PCBA- for kind appraisal of the Hon'ble chairman.

(Shantanu Kr. Dutta)
Member Secretary



Pollution Control Board, Assam

(Department of Environment & Forests, Government of Assam)

অসম প্রদূষণ নিয়ন্ত্রণ পৰিষদ

(অসম চৰকাৰৰ বন আৰু পৰিৱেশ বিভাগ)

NABL Accredited Testing Laboratory : Certificate No. TC-11384



No.WB/T-319/22-23/26

Dated Guwahati the 2nd of February, 2024

Public Notice

Sub: Registration of PIBOs under Plastic Waste management Rules, 2016 as amended.

Whereas, it is observed that a large part of Category I Plastic Packaging, especially packaged water drinking bottles, introduced into the market are not properly accounted in the centralized EPR portal.

Therefore, for proper implementation of Extended Producer Responsibility (EPR) under the Plastic Waste management Rules, 2016 as amended, all **PET Preform manufacturers** located in Assam are directed to register through the centralized EPR (eprplastic.cpcb.gov.in) portal within 7 days from the date of issue of this notice.

Further, All PET preform manufacturers are directed to ensure that PET Preforms with water packaging capacity of less than 500 ml are not supplied to Packaged Drinking Water producing units.

(Shantanu Kr. Dutta)
Member Secretary

Memo No.WB/ T-319/22-23/26

Dated Guwahati the 2nd of February, 2024

Copy to:

1. P.A to the Chairman, PCBA- for kind appraisal of the Hon'ble Chairman.
2. PCBA Website

(Shantanu Kr. Dutta)
Member Secretary



**Pollution Control Board, Assam
Bamunimaidam, Guwahati-21**



PUBLIC NOTICE

No. WB/T-298/20-21/40

Dated Guwahati, the 29th June, 2022

**Notice for Prohibition of Production, Stocking, Distribution, Sale & Use of
Single Use Plastic (SUP) Items**

Whereas, it is a well-known fact that severe damage is caused to the environment due to extensive use of Single Use Plastics (SUPs) and plastic carry-bags.

Whereas, the Central Government has notified the Plastic Waste Management (Amendment) Rules, 2021 vide No.G.S.R. 571(E) dtd 12/08/21.

Whereas, as per Rule 4(2) of Plastic Waste Management Rules, 2016 (as amended), "the manufacture, import, stocking, distribution, sale and use of following **Single Use Plastic (SUP)**, including polystyrene and expanded polystyrene, commodities shall be prohibited with effect from **01st July, 2022**".

- a) Ear buds with plastic sticks, plastic sticks for balloons, plastic flags, candy sticks, ice-cream sticks, polystyrene [Thermocol] for decoration;
- b) Plates, cups, glasses, cutlery such as forks, spoons, knives, straw, trays, wrapping or packing films around sweet boxes, invitation cards, and cigarette packets, plastic or PVC banners less than 100 micron, stirrers.

Whereas as per Rule 4(1)(c) of PWM Rules, 2016 (as amended), "carry bags made of virgin or recycled plastic, shall not be less than seventy five (75) microns and with effect from 30th September 2021 and one hundred twenty (120) microns in thickness with effect from 31st December, 2022".

This notice is being issued to inform all Producers, Stockists, Retailers, Shopkeepers, e-commerce companies, street vendors, commercial Establishments (malls/Market place/ Shopping Centres/ Cinema houses/ Tourist locations / Schools / Colleges / Office Complexes / Hospitals & other intuitions) and general public to stop production, stocking, distribution, Sale & use of identified Single Use Plastic (SUP) items as per the said MoEF&CC Notification. Further, necessary action is to be taken by all concerned entities to ensure zero inventories of the aforementioned SUP items before 1st July, 2022.

Any violations of the above regulations shall attract penalty as per the provisions of the Environment (Protection) Act, 1986 including seizure of goods, levying of Environmental compensation and closure of operation as deemed fit.

(Shantanu Kr. Dutta)
Member Secretary

Memo No. WB/T-298/20-21/40-A

Dated Guwahati, the 29th June, 2022

Copy to:

1. The Addl. Chief Secretary to the Govt. of Assam, Environment & Forests Department, Dispur, Guwahati-06 for kind information.
2. Website, Pollution Control Board, Assam (www.pcbassam.org).

(Shantanu Kr. Dutta)
Member Secretary

CHAPTER VIII

Capacity Building

Coping with the increasing quantum of work and their changing dimensions, infrastructure as well as manpower capacity building is very imperative for an organization like Pollution Control Board, Assam. The Board has been pushing very hard for its capacity building in the recent times. A brief description on the infrastructure and manpower capacity building in the last two years is presented below –

8.1. Manpower Capacity Building

8.1.1 New Recruitment

After a long period of almost ten (10) years, the Board successfully completed the recruitment against 74 no of posts in different cadres as per the 'Pollution Control Board, Assam (Employees' Service) Regulation-2012,' which was lying vacant for last many years. This effort of recruitment ended up the straggling of the Board in accomplishing its duties and responsibilities. The entire academic exercise pertaining to the selection of candidates for recruitment was conducted by the IIT Guwahati on request of the Board, whereas the Board provides all ancillary supports to IIT Guwahati. A brief summary of the recruitment process is outlined below–

The Pollution Control Board Assam issued advertisement on **27th March, 2023** for recruitment of the post as follows –

Sl. No.	Name of Post	Number of Post
1.	Assistant Planning and Research Officer	01
2.	Assistant Engineer	17
3.	Environmental Scientist	07
4.	Assistant Programmer	01
5.	Junior Accountant	05
6.	Administrative Assistant – II	17
7.	Scientific Assistant III	01
8.	Grade IV	25
Total:		74

- A total **32,144** no. of applications were received through online mode;
- Written Test was conducted in **17** venues across the State on: **27-11-2023 and 10-12-2023**;
- A total of **16,406** no. of candidates have appeared in the written;
- A total **434** no. of candidates have qualified for Interview;
- Interviews were completed in 3 days from **22-01-2024 to 24-01-2024**;
- Final Result was declared on **07-02-2024**.
- Appointment Letter Distribution

The Board organized a Ceremonial Appointment Letter Distribution Function on 13th March, 2024 at Shri Shri Madhabdev International Auditorium, Srimanta Shankardeva Kalakshetra, Guwahati.

Hon'ble Minister Shri Chandra Mohan Patowary, Environment & Forests; Act East Policy Affairs and Welfare of Minorities departments, Government of Assam attended the Function as Chief Guest and distributed appointment letter among the selected candidates. The other dignitaries present on the dais on the occasion and participated in the appointment letters distribution activity were – Shri Ravi S. Prashad, IAS, Special Chief Secretary to the Government of Assam; Shri M. K. Yadava, IFS, Special Chief Secretary, Forest Department; Shri R. P. Singh, IFS, PCCF & HoFF; Dr. Arup Kumar Misra, Chairman, PCBA; Dr. Shantanu Kumar Dutta, Member Secreary, PCBA.

The function was attended by a large number of senior government officials, invitees, parents of the selected candidates and the officials from PCBA and Forest Department.



Moments of Ceremonial Distribution of Appointment Letter to the selected candidates in PCBA

8.1.2 Training for Office and Staff

As a part of its manpower capacity building initiatives, the Board has been nominating its technical officers, scientific officers as well as the administrative staff to attend different training programmes conducted by reputed organizations/institutions within the State or country and even for over-seas trainings.

8.1.2.1 Training Programmes Organized by other Organizations

The list of officers/staff of the Board attended different training programmes organized by other organizations / institutions in the year 2023-2024 are given in Table No.: 8.1

Table No.8.1: List of Employees attended Training Programmes Organized by other Organizations in the Year 2023-2024

Training in the year 2023	Training venue	Scheduled date	Persons nominated
Reservation in Services	Assam Administrative Staff College	27 th to 28 th June, 2023	Sri Hemanta Saikia, AM (HRA)
Rain Water Harvesting	Assam Administrative Staff College	10 th to 11 th July, 2023	Ms. Mousumi Bardalai, SEE Ms. Rita Sarania, SEE
Solid Waste management	Assam Administrative Staff College	4 th to 5 th Aug, 2023	Ms. Mousumi Bardalai, SEE Sri Kulen Talukdar, SEE
Labour Codes, Issues and Perspectives	VV Giri Nat LabourInst, Noida	11 th to 15 th Sept, 2023	Abhik Saha, AA-I Hemanga Goswami, Junior Acc
Green Economy	Assam Administrative Staff College	30 th and 31 st Oct, 2023	Mridul Dev Adhikary, SES Sri Kulen Takukdar, SEE
Critical Thinking for Strategic decision making	Assam Administrative Staff College	1 st and 2 nd NOV, 2023	Sri Pratap Kr. Sarmah, SES Ms. Shaista Akhtar, DM (HRA) Ms. Ditisri Goswami, AA-I
Office Procedure, Accounts & Financial Rules	Assam Administrative Staff College	27 th to 29 th Dec, 2023	Sri Binoy Chkalita, Dy. Mg Ms. Nandita Das, AA-I Sri Bikramjit Singha, Jr. Acc
Landfill groundwater pollution management and valorization of mining/industrial wastes through bio-composting and Waste to Energy	National Institute of Technology, Silchar	31 st Jan to 2 nd Feb, 2024	Navaneeta Nath, AEES

8.1.2.2 In-house Training for Office and Staff

The Board has also been organizing in-house training programmes for its officers and staff on different issues to tune the employees with the demands of the immersing situations and to increase functional ability.

The Board organised a day-long Workshop on Exposure to Geospatial Technology for its Officials on November 16 with the technical support of Aaranyak, a leading NGO of the North East. The Workshop was stated with the inaugural speech by Chairman, PCBA Dr. Arup Kumar Misra followed by the speech of the Member Secretary, Dr. Shantanu Kumar Dutta. Both the speakers highlighted the importance of application of Geospatial Technology (Remote sensing, GIS and GPS) in the field of pollution management and the scope of implementation in PCBA for improvement of its functioning.

The technical sessions of the Workshop was conducted by GIS experts from Aaranyak, namely – Madhumita Borthakur, Senior GIS Analyst; Avishek Sarkar, GIS Analyst; and Mithilesh Padhan, GIS Analyst. The technical sessions were basically limited to – Introduction to Geospatial Technology (Remote sensing, GIS and GPS);

GIS Data sources and Application of Google Earth Engine in estimating various pollution indicators. The programme concluded with an interactive session.



Workshop cum training on Exposure to Geospatial Technology

8.2 Infrastructure Capacity Building

8.2.1 Upgradation of Central Laboratory:

Central Laboratory of Pollution Control Board, Assam (PCBA) has been modernized and upgraded to a State of Art Laboratory by developing infrastructure in it and installing sophisticated instruments like – GC-MS, ICP-OES, Ion Chromatograph (IC) etc. The Laboratory has been assessed and accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) covering 69 Air and Water Quality parameters.



Views of State of Art Laboratory Central laboratory of the Board

8.2.2 Inauguration of New Regional Office:

The Board established two (2) new Regional Offices – Regional Office South Bank, at Chaygaon and Regional Office Tinsukia at Tinsukia. Now, with this two Regional Offices, the total number of Regional Offices of the Board goes to 11. The Regional Office South Bank was officially inaugurated on 22nd February, 2024 through a small ceremonial function attended by Hon'ble Chairman and Member Secretary and other senior officials of the Board.

CHAPTER IX**Environmental
Awareness and People
Outreach Programme**

Environmental awareness among the general public is the key to effective implementation of environmental legislations and environment management. To ensure these, the PCBA has been conducting various activities on its own as well as working with civil society organizations, NGOs and institutions to organize different activities to create awareness among the people on different environmental issues over the years. However, the student community has always remained the special target group as far as the environmental awareness activities of the Board are concerned. A brief account of such activities carried out by the Board in recent times is presented below –

9.1 Collaboration for Environmental Awareness and Management

The PCBA added a new dimension towards achieving its mandates by introducing collaborative efforts with institutions of high repute in the State for – promotion of sustainable environment management practices; raising of awareness on environmental issues; promotion of environmental studies etc. The Board has already signed Memorandum of Understanding (MoU) in this regard with universities, colleges and other organizations that includes a defined set of work plan, to be carried out jointly in a five years time frame.

Colleges under MoU with PCBA

- Oil India Limited, Duliajan
- B. Borooah College, Guwahati
- Sonapur College, Sonapur
- M. N. C. Balika Mahavidyalaya, Nalbari
- D.H.S.K. College, Dibrugarh
- Arya Vidyapeeth College
- Laghu Udyog Bharati, Purvattar Prant

It is significant to note that many other such institutions have also expressed their willingness to work with PCBA for the cause of environment. The Board is planning to bring all of these interested institutions under similar arrangement in the coming days.

Important Components of MoU

- To promote sustainable practices in the College and its surrounding communities, with a particular focus on reducing pollution and improving waste management practices. To work collaboratively on research, development and implementation of sustainable practices in the College, including renewable energy, waste reduction and water conservation.
- To develop joint programs, initiatives, and activities to raise awareness and educate the community about environmental issues and the importance of sustainability.
- To establish a monitoring and reporting system to evaluate progress towards shared goals and identify opportunities for continuous improvement.
- The College agrees to implement specific environmental policies and programs including reducing energy consumption, noise pollution, reducing carbon emission promoting sustainable transportation and implementing a waste management plan.
- To jointly apply for research projects on topics of mutual interest to various funding agencies.
- To jointly organize outreach programmes related to various contemporary environmental issues. The PCBA agrees to provide technical expertise and support, including training and education, on request from the College.
- Both parties agree to establish a joint committee to oversee the implementation of this MoU and to meet regularly to review progress and identify opportunities for collaboration.
- Both parties agree to contribute resources and funds, as and when needed, on mutual understanding to support the activities outlined in this MoU.

9.2 Implementation of MoU

It is pertinent to note that the Board has already started implementing action points under the MoU signed with different institutions. A few such activities are outlined below –

9.2.1 Arya Vidyapeeth College, Guwahati

Awareness Meet: The PCBA joined hands with the Department of Zoology, IQAC and Students' Union of Arya Vidyapeeth College, Guwahati, in organizing awareness meet on Rejuvenation of Sola Beel, an important storm water reservoir of Guwahati city, which is degraded due to encroachment and dumping of garbage in and around the water body, on 01-12-2023 in the College Auditorium. The Department has signed a Memorandum of Understanding



Dr. Arup Kumar Misra, Chairman, PCBA, in the Awareness Meet at Arya Vidyapeeth College

(MoU) with the PCBA for five (5) years, under which they will take up future steps for the revival of the water body. Dr. Arup Kumar Misra, Chairman, PCBA; Dr. Chandashree Bhuyan, HoD Zoology Department, Arya Vidyapeeth College; Shri Gokul Bhuyan, ACEE, PCBA interacted with the participants in the event.

9.2.2 MNC Balika Mahavidyalaya, Nalbari

a) **Awareness Meet:** The Board organized an awareness meet on promotion of Mission LIFE action points and other environmental issues in association with MNC Balika Mahavidyalaya, Nalbari in the month of October, 2023. Dr. Arup Kumar Misra, Chairman, PCBA; Dr. Shantanu Kumar Dutta, Member Secretary, PCBA; Shri Arup Barpujari, Board Member, PCBA; Principal MNC Balika Mahavidyalaya interacted with the students on different environmental issues.



Dr. Shantanu Kumar Dutta, Member Secretary, PCBA in the Awareness Meet at MNC Balika Mahavidyalaya, Nalbari

b) Workshop on Hazardous Waste Management

The Board organized a workshop on Hazardous Waste Management on 28th August, 2023 at the Auditorium of Institution of Engineers (India), Assam State Centre in association with Laghu Udyog Bharati, Purvottar Prant. The Workshop was attended by the senior officials, technical officers and scientific officers of PCBA; members of Laghu Udyog Bharati; representative of hazardous waste generating units; hazardous waste transporters; and of hazardous waste storage facilities from across the State.



Dr. Arup Kumar Misra, Chairman, PCBA (left) and moment of signing of MoU with Laghu Udyog Bharati by Dr. Shantanu Kumar Dutta (right) in the Workshop on 28th August, 2023

c) Awareness cum Training Programme on Biodegradable Waste Management, Organic Farming and Installation of Waste Disposal Facility

As a part of the implementation of the MoU signed by the Board with M.N.C. Balika Mahavidyalaya, the Board implemented a Project on 'Biodegradable Solid Waste Management and Organic Farming' in the College with the following objectives –

- to install a set of composting unit – 'Waste Assimilator' within the College campus;

- to create a pool of trained teachers on Decentralized Solid Waste Management who can train and motivate students;
- to create knowledge and awareness on need of prevention of present “Use and Throw Practice”;
- to impart training on source segregation and utilization of biodegradable solid waste as resource through ‘Waste Assimilator’;
- to impart training on development of organic garden on the College premises
- to impart training on decentralized plastic waste management
- to create awareness on the importance of Green and Clean College campus.

The Board engaged ENVIRON, a Guwahati-based NGO to implement the project in the College. Dr. Amarjyoti Kashyap, the founder president of the NGO and the inventor of the ‘Waste Assimilator’, took the leading role in implementing the project in the College and impart necessary training to the faculties and students. He also addressed many awareness meetings pertaining to the project implementation in collaboration with the College authority. A few visuals of the project implementation and monitoring are presented below –



Different phases of training on source segregation and utilization of biodegradable solid waste as resource through ‘Waste Assimilator’ and development of Organic Garden at M.N.C. Balika Mahavidyalaya



Inspection of source segregation and utilization of biodegradable solid waste as resource through 'Waste Assimilator' and Organic Garden at M.N.C. Balika Mahavidyalaya by Officials of PCBA



Moments of training on decentralized plastic waste management at M.N.C. Balika Mahavidyalaya

9.3. People Outreach Programme

The PCBA has been carrying out different People Outreach Programme (POP) on its own as well as collaborating with institutes of high repute and NGOs to promote – awareness building on environmental issues; sustainable environmental management practices; Mission LIFE action points; research in the field of science and environment, etc. A brief note on a few such programmes is presented below –

9.3.1 POP at Bhattadev University

The Board associated with Bhattadev University and Assam Science Society in organizing the 67th Annual Technical Session of Assam Science Society cum National Seminar on "Current Developments in Science and Technology" in Bhattadev University, Pathsala, Assam on 6th April, 2023.



Dr. Arup Kumar Misra, Chairman, PCBA during his deliberation in the Seminar

9.3.2 POP at Kumar Bhaskar Varma Sanskrit and Ancient Studies University, Nalbari

The Board organised an awareness programme on “Air Pollution and Promotion of Mission LiFE Action Points” in association with Kumar Bhaskar Varma Sanskrit and Ancient Studies University, Nalbari on its premises on 29th August, 2023. The Vice Chancellor of the University; Dr. Arup Kumar Misra, Chairman, PCBA; Shri Gokul Bhuyan, ACEE, PCBA; Shri Pratap Sarmah, SES, PCBA deliberated on the occasion.



Awareness Programme at Kumar Bhaskar Varma Sanskrit and Ancient Studies University, Nalbari

9.3.3 POP at Bapuji Mahavidyalaya, Sarthebari

The Board associated in organizing an awareness meet on “Air Pollution and Promotion of Mission LiFE Action Points” with Bapuji College, Sarthebari. Dr. Arup Kumar Misra, Chairman, PCBA; Dr. Shantanu Kumar Dutta, Member Secretary, PCBA; and other senior officials of the Board participated in the meet and interacted with the students.



Snapshots of the Programme at Bapuji Mahavidyalaya, Sarthebari

9.3.4 POP on Single Use Plastics cum Industrial Exposure on Plastic Technology

An Awareness Meet was jointly organised by Central Institute of Petrochemicals Engineering & Technology (CIPET): CSTS, Guwahati in association with Pollution Control Board, Assam on 21st September, 2023 on Single Use Plastics cum Industrial Exposure on Plastic Technology. Dr. Arup Kumar Misra, Chairman, PCBA and Dr. Shantanu Kumar Dutta, Member Secretary, PCBA represented the Board in the Meet and interacted with the participants on the theme.



Dr. Arup Kumar Misra, Chairman, PCBA (left) and Dr. Shantanu Kumar Dutta, Member Secretary, PCBA (right) during interaction with the participants

9.3.5 POP through Cultural Forms – Street Play, Music Show etc.

Save Bharalu Initiative

The PCBA took up an awareness drive in association with the Centre for Cultural Integration through different performing art forms, like – street play, roadside music show etc. on 9th April, 2023 to make an appeal to the people of the city to save the Bharalu river from pollution.



Dr. Arup Kumar Misra, Hon'ble Chairman, PCBA and Dr. Shantanu Kumar Dutta, Member Secretary, PCBA took part in the cultural shows on the Save Bharalu Initiative, 9th April, 2023

9.4 Celebration of International Days and Events

9.4.1 Celebration of World Environment Day, 2023

The Board has been celebrating the World Environment Day (WED) since the year of its inception with different activities, like – drawing & painting competition; quiz competition; plantation & distribution of saplings; and discussion cum seminar, to promote awareness among the common masses on the theme announced by the UNEP every year. On the occasion of WED, the Head Office of the Board at Guwahati as well as nine (09) ROs and RLOs located at – Dibrugarh; Sivasagar; Golaghat; Tezpur; Nagaon; Silchar; Bongaigaon; Kamrup and Guwahati organised many people outreach programmes covering a wide range of activities across the State. A brief account of the celebration of WED 2023 is given below –

9.4.1.1 Walkathon, 2023

As a part of the celebration of World Environment Day, 2023, the Pollution Control Board, Assam organized an event – Walkathon and Plogging, on 5th June, 2023, which started from the Latasil playground, Guwahati. The Hon'ble Chairman, PCBA, Dr. Arup Kumar Mishra and Member Secretary, Dr. Shantanu Kumar Dutta flagged

off the event in presence of the senior officials of the Board. The Chairman also shared his insights on WED 2023 theme 'Beat Plastic Pollution' to the gathering before flagging off the event and also interacted with the media personals.

The walkathon, which was participated by more than 400 people from different fields like NGOs, industrial representatives, students from different educational institutions, members from Bharat Scout and Guide, and senior citizens, started from Latasil playground via Dighalipukhuri, Pan Bazaar, and back to Latasil playground. The key highlights of the event were

- To raise awareness and stand united to promote environmental consciousness and inspire change.
- To walk for impact: Every step you take contributes to a greener and healthier planet.
- To get inspired: Learn from environmental experts who will share their insights and motivate us to take action.
- To engage with the community: Connect with like-minded individuals and organizations passionate about saving our planet.

The participants demonstrated colourful placards with messages like –'Change Habit, carry reusable Jute Bags or Cloth Bags for shopping'; 'Plastic waste pollute environment, Refuse items in single-use-plastic carry bags; 'Don't dispose plastic waste with other solid wastes or in drains', 'Dasa Putra Sama Brikaha' etc.

Another component of the event was jogging around Latasil playground. The aim of this event was to make it the perfect opportunity to exercise, connect with nature and contribute to a cleaner and greener Earth.

The event concluded with the distribution of saplings and plantation drive across Latasil playground in order to sensitize the people to preserve the environment.





A few moments of the Walkathon and Plogging events organized by PCBA on 5th June 2023 in Guwahati city

9.4.1.2 Awareness campaign through Print Media

The Board launched a week-long mass awareness campaign in association with 'The Assam Tribune' – the most circulated English daily newspaper of Assam, as a part of World Environment Day (WED), 2023 celebration and published infographics on the WED 2023 theme i.e. Beat Plastic Pollution, continuously from 29th May, 2023 to 5th June, 2023 in the Paper. Images of a few published infographics are as follows–



Images of published infographics on theme 'Beat Plastic Pollution' in the most circulated English daily newspaper of Assam



Images of published infographics on theme 'Beat Plastic Pollution' in the most circulated English daily newspaper of Assam

9.4.1.3 People Outreach Programme at Tihu College

The Board organized POP in association with the Eco Club of Tihu College at Tihu College as a part of WED 2023 celebration. A team of senior officials of the Board participated in the programme. The activities organized on the occasion were –

- Plantation of saplings on the College premises
- Poster making competition
- Publication of leaflet on impacts of Single Use Plastic (SUP) on environment

- Presentation on innovative ideas of students on alternative of SUP items made out of locally available biodegradable materials
- Awareness Meet cum Discussion on theme – Beat Plastic Pollution



Snapshots of activities organized by PCBA as a part of WED 2023 celebration at Tihu College, Tihu on 5th June

9.4.1.4 Celebration of WED by ROs and RLOs

Each RO and RLO of the Board organised different activities in their areas of respective jurisdiction to raise awareness amongst the common masses on the WED 2023 theme – Beat Plastic Pollution. The ROs and RLOs of the Board organised different activities, like – plantation and distribution of saplings; drawing and painting competition amongst children; awareness meet; street play; essay writing competition; cleanliness drive etc. A few representative images of the activities are presented below –



Representative images of WED 2023 celebration by the Regional Offices of the Board

9.4.2 Celebration of World Ozone Day, 2023

The Head Office of the Board celebrated the 29th World Ozone Day in association with Institution of Engineers (India) Assam Centre on 16th September, 2023. The Day is being celebrated each year to commemorate the signing of the Montreal Protocol, an international environmental treaty for phasing out of production and consumption of Ozone Depleting Substances, which came into force on this day in 1987. World Ozone Day is celebrated every year to spread awareness among people about the depletion of the Ozone Layer and the measures taken/ to be taken to preserve it. The theme for World Ozone Day 2023 was “Montreal Protocol: fixing the ozone layer and reducing climate change”. On the occasion the Board organised a seminar cum discussion in the auditorium of the Institution at Guwahati.



Dr. Arup Kumar Misra, Chairman, PCBA (left) and Dr. Shantanu Kumar Dutta, Member Secretary, PCBA (right) addressing the crowd during celebration of Ozone Day 2023

The ROs and RLOs of the Board also celebrated the Ozone Day on 16th September 2023 with awareness meet and different activities in the areas of their respective jurisdiction.



A few moments of Ozone Day, 2023 celebration by the ROs and RLOs of the Board

9.4.3 Celebration of “Ek Tareekh, Ek Ghanta, Ek Saath” campaign

The Board celebrated the “Ek Tareekh, Ek Ghanta, Ek Saath” campaign as part of the Swachhata Hi Seva (SHS) program on October 1, 2023, at 10 am that lasted for an hour with the objective to make an impact on cleanliness and hygiene in the society. Hon’ble Chairman, PCBA, Dr. Arup Kr. Misra led the cleanliness drive organised by the Head Office of the Board on the occasion in Guwahati city. A large number of officials participated in the drive.



Hon'ble Chairman, PCBA, Dr. Arup Kr. Misra led the cleanliness drive during "Ek Tareekh, Ek Ghanta, Ek Saath" campaign on October 1, 2023 in Guwahati

The ROs and the RLOs of the Board located at Dibrugarh, Sivasagar, Golaghat, Tezpur, Nagaon, Silchar, Bongaigaon, Kamrup and Guwahati also organised similar drives in the areas of their jurisdiction.



Representative images of celebration of "Ek Tareekh, Ek Ghanta, Ek Saath" campaign by the Regional Offices of the Board on October 1, 2023 in areas of their respective jurisdiction

9.5 Support and Sponsor

The Board also supported and sponsored a number of other events and activities organised by other organizations to utilize their platforms to spread awareness on environmental issues. A few such organizations are –

9.5.1 INSORE Conclave on Climate Change

The Board supported and sponsored the 2nd Phase of 'INSORE' Climate Change Summit – International Summit on Renewable Energy 2023, Climate Change & Governance for Sustainable World, held in Assam Administrative Staff College, Khanapara on 22nd July and 23rd July 2023. The Hon'ble Chairman of PCBA Dr Arup Kumar Misra participated as one of the appointed speakers in the Summit. The Board also arranged for display of awareness messages on Mission LIFE action points in the venue of the event as a part of its mass awareness programme.



A moment of the INSORE Climate Summit (left) and Dr Arup Kumar Misra, Chairman, PCBA (right) while delivering his speech during the Summit.

9.5.2 ChemTECH World Expo 2024 and WaterEX World Expo-2024

The Board associated in organizing the ChemTECH World Expo 2024 and WaterEX World Expo-2024 organized by ChemTECH & Jasubhai Group from 04th March to 07th March, 2024 in Mumbai. Dr. Arup Kumar Misra, Chairman, PCBA and Dr. Shantanu Kumar Dutta, Member Secretary, PCBA, represented the Board in the Events and both of them deliberated on the theme of the Expos. The organizer gave wide publicity to PCBA in the Expo. The logo of the Board was widely used in the branding materials as well as the publicity material of the Board highlighting the important activities and achievements of the Board in recent times were also displayed in the Event.



The Chairman and Member Secretary of the Board in Expo



Display of Board's Logo and Publicity Material in the Expo 2024

9.5.3 North East Renewable Energy & Electric Vehicle Expo-2024

The Board supported the North East Renewable Energy & Electric Vehicle Expo-2024 organized by the Federation of Industry & Commerce of North Eastern Region (FINER) from the 21st to the 23rd of January 2024 in Guwahati, Assam. At the time of 'climate emergency' and 'rising air pollution', the Expo was the much-needed initiative to raise awareness and foster innovation on sustainable practices for a cleaner and greener future.



Chairman, PCBA, Dr. Arup Kumar Misra visiting the stalls of the North East Renewable Energy & Electric Vehicle Expo-2024

9.5.4 Guwahati International Children Film Festival

The Board supported the Guwahati International Children Film Festival organised by Jyoti Chitraban, Guwahati, held from 23rd to 25th January, 2024. The Hon'ble Chairman and Member Secretary represented the Board in the Event. The Board also utilized the venue of the Event to display its awareness messages on air pollution and Mission LiFE action points for the common people.



Moment of closing ceremony of the Event (left) and display of standee on air pollution for mass awareness in the venue

9.5.5 Seminar on Environmental Regulatory Compliance

On May 23, ASSOCHAM NE Region Development Council held a seminar on Environmental Regulatory Compliance at NEDFi House, Guwahati in collaboration with the Pollution Control Board of Assam. Among the prominent guests who gave their insightful opinions on a variety of subjects pertaining to Resilient Eco-System of Development were Shri Ravi S. Prasad, (then) Addl. Chief Secretary, Environment & Forests, Government of Assam; Dr. Arup Kr. Misra, Chairman, PCBA, and Dr. Shantanu Kumar Dutta, Member Secretary, PCBA.



Seminar on Environmental Regulatory Compliance at NEDFi House, Guwahati

9.5.6 Women Conclave 2023 by Byatikram MASDO (NGO)

The PCBA supported the Women Conclave 2023 organised by the NGO Byatikram MASDO on 29th July, 2023 in Guwahati with the theme – North East Women: Future Story.



Moments of the Women Conclave, 2023 by Byatikram

9.5.7 Awareness program by Sadou Asom Lekhika Samaroh Samiti

Pollution Control Board, Assam sponsored the event “Awareness program on Environmental Hazards and Pollution” organised by Sadau Asom Lekhika Samaroh Samiti in Sundarbori, Jalukbari, Guwahati.

Moreover, Sadau Asom Lekhika Samaroh Samittee, Jalukbari Branch, Guwahati also published a biennial journal of the Samittee named “Uddipona”. –The Board financially supported this woman’s organisation in publishing the Journal and at the same time published its awareness message on environmental issues in the Journal.



Moments of the Awareness Programme organised by the Sadau Asom Lekhika Samaroh Samiti, Jalukbari Branch with financial support from PCBA, 2023

9.5.8 Bicycle Rally for Clean and Green Tomorrow

The PCBA supported and sponsored a bicycle rally organised by Byatikram – Mass Awareness and Socio Cultural Development Organization (NGO) on 01st June, 2023 as a part of celebration of World Environment Day 2023 with a theme – Cleaner and Greener Tomorrow, to raise awareness among the common masses on impacts of plastic waste on environment.



Dr. Shantanu Kumar Dutta, Member Secretary, PCBA (third from the left) represented the Board in the Event

9.5.9 Health Conclave, 2023 by Byatikram MASDO

The Byatikram MASDO, a Guwahati-based NGO, hosted a 'Health Conclave' on November 25th, 2023 in Guwahati. With the theme "Focusing on Healthcare in Modern Times", the Conclave brought together experts, researchers, professionals and stakeholders for insightful discussions on recent advancements, opportunities and challenges in the healthcare sector. Pollution Control Board Assam showed active support to this Conclave. The event was inaugurated by Dr. Arup Kumar Misra, Chairman, PCBA, along with other dignitaries from various fields. The Addl. Chief Environmental Engineer, PCBA, Shri Meghnad Nath and Senior Environmental Engineer of the Board, Mrs. Mousumi Bordoloi also gave their views on "Unscientific disposal and open burning of biomedical waste poses serious health risks and environmental degradation".



Snapshots of Health Conclave 2023 supported by PCBA

9.5.10 Others

Besides the above mentioned organizations, the Board has also offered its support and sponsorship to a large number of other events and activities organised by other organizations to utilize their platforms to spread awareness messages on environmental issues. A list of few such organizations is presented below –

- Zoology Department, Gauhati University
- Don Bosco University
- Cotton University
- Institution of Engineers, Assam State Centre
- Sadischa (NGO)
- Senior Engineer Forum, Assam
- Women Engineer Forum, Assam
- North East Aashirvad Foundation
- Assam Healthcare Co-operation Society
- NE Diabetes Society, Shillong
- Ellora Vigyan Mancha
- Department of English Language Teaching, Gauhati University
- Pragya Mahila Chora
- Fresh Air Management Service Pvt. Ltd.
- Ksepya Environment Management Pvt. Ltd.
- Nanda Talukdar Foundation
- School of Livelihood and Rural Development
- Electronic Scientist and Engineer's Society
- PHONOCON Surgeon's Conference
- Down to Earth, Centre for Science and Environment
- Asom Sahitya Sabha
- All India Federation of DEAF
- Third Theatre
- The Assam Tribune
- Department of Mass Communication, Gauhati University
- Alok Pravanjan Welfare Society

9.6 Participation in International and National Level Meets

9.6.1 International Climate Summit, 2023

The 3rd International Climate Summit, 2023, organised by PHD Chamber of Commerce and Industry on 14 & 15 September 2023, set the stage for a global dialogue & actionable outcomes on climate change mitigation from

an Indian perspective at Vigyan Bhawan, New Delhi with focus on sustainable practices, biofuels, renewable & Green Hydrogen. The Hon'ble Chairman and Member Secretary represented the Board in the Summit and participated in the panel discussion.



Hon'ble Chairman, PCBA in the 3rd International Climate Summit, 2023 at New Delhi

9.6.2 Seminar on Residual Accounts and its Linkages with Sustainable Development Goals

The Hon'ble Chairman of the Board Dr. Arup Kumar Misra and Addl. Chief Environmental Engineer Shri Meghnad Nath represented the Board in the "Seminar on Residual Accounts and its Linkages with Sustainable Development Goals" organised by the Social Statistics Division of National Statistical Office, Ministry of Statistics and Programme Implementation, Government of India, held on 3rd July, 2023 at the India International Centre, New Delhi. Shri Nath gave a presentation on initiatives and challenges of PCBA.



Moments of the "Seminar on Residual Accounts and its Linkages with Sustainable Development Goals", held on 3rd July, 2023, New Delhi

9.7 Publication of Information Education and Communication (IEC) Materials

- I) **Publication of Annual Report:** The Board published its Annual Report 2022-23.
- II) **Publication of Newsletter:** The Board published its quarterly newsletter – ‘Parivesh Batori’; Volume XXIV; No. 2 and 3.



- III) **Publication of Awareness Messages and Infographs:** The PCBA has also been publishing advertisement messages regularly on environmental issues, which contains easy to follow tips to combat pollution; guidelines to protect environment and provisions of Acts and Rules etc. in various newsletters, souvenirs, journals, and newspapers etc. in both Assamese and English languages.



A few published infographics on various environmental issues in different print media by PCBA

IV) Publication of Air Quality Index (AQI) Date: The PCBA has made an arrangement for publication of AQI data daily through 5 (five) daily local newspapers – Assamese; English and Bengali newspapers, as a part of its mandate of data dissemination and awareness building.

9.8. Mass Awareness through Social Media

The Board has been carrying out intense awareness campaign through its social media handles, namely **Facebook@PCBAssam**, **Twitter@PCBAssam** and **Instagram@pcbassam** using static posts, reels, short videos, live programmes, infographics etc. The accumulated Followers, Reach and Engagement across Social Media Platforms till March 2024 are - 10,235 Followers; 25, 047,508 Reach/Impressions and 21,74,820 Engaged Users.



Representative creative/posts on environmental issues published by PCBA through its social media platforms

CHAPTER X

**Prosecutions
Launched, Convictions
Secured
and Directions**

10. Status of Court / Tribunal Cases

The status of Court / Tribunal cases filed by individuals, entity, organizations etc. before all Courts of India where PCBA is a Respondent, handled during the year 2023- 24 are given in Table 10.1

Table 10.1 - Status of Court / Tribunal Cases during year 2023-24

Particulars	Supreme Court of India	Gauhati High Court	Nation Green Tribunal (Principal Bench)	Nation Green Tribunal (Eastern Zonal Bench)	Human Right Commission
As on March 2023	6	67	0	4	--
New cases during 2023-24	2	17	2	4	3
Disposed of during 2023-24	1	4	0	2	3
As on March 2024	7	80	2	6	0

CHAPTER XI**Information
Technology Initiatives**

The Pollution Control Board, Assam has taken up lots of initiatives to provide online services to the people of the State and moving towards e-Office management system. A brief account of these initiatives are summarized below –

11.1 Implementation of OCMMS (Online Consent Management & Monitoring System)

- Under Ease of Doing Business (EoDB) Scheme, one online portal was developed by Govt. of Assam in the year 2017 for consent management.
- In the year 2020, the Board adopted new OCMMS portal developed by NIC, Delhi which is now linked with the State EoDB portal.
- The updated status of Consent (CTE/CTO) are being linked & displayed in the **CM Dashboard** through API.

11.2 Development of e-Office in the Board by NIC, New Delhi

- The Board is working continuously towards attaining a completely e-Office system of functioning of its Head Office and Regional Offices. 1st phase training of e-Office to the Board's officials has been completed successfully and the application is ready to be implemented. This will facilitate quick processing of files and services to its clients.
- The Board has already scanned / digitized and inventorised more than ten (10) thousand files from different sections of its Head Office.

11.3 Implementation of Government e-Marketplace (GeM) in the Board

- Government e-Marketplace (GeM) is a very bold step of the Government with the aim to transform the way in which procurement of goods and services is being done by the Government Departments and other bodies.

- The PCBA registered in the GeM Portal in February, 2022 and started procurement of various goods in the Head Office following all Guidelines of GeM Portal.
- The Board has already purchased office vehicles, scientific equipment, IT equipment, stationery items and electrical items etc. through GeM Portal.
- The Board has already procured items worth more than Rs. 300 Lakh; taking together purchases through biddings and direct purchases from GeM portal.
- By now, the Board has registered all of its Regional Offices under GeM Portal to promote similar practice in the ROs/RLOs.

11.4 Hosting of Real Time Data (RT- DAS) Server in the Board

- It is an online system for monitoring ambient air quality & waste water of different 17 categories of industries and publication of real-time data in public domain (www.pcba.rtdas.in) as well as transferring the same data to CPCB for taking corrective measures, if any, in time.
- All data from the said categories of industries are collected in one accessing point i.e. RT-DAS Server in the Head Office of PCBA in real time from their analyzer.
- The Portal is active since 2016 and as of now, a total of 41 numbers of 17 categories of industries are connected with the RT-DAS Server.
- The Portal can be access from Board's website i.e. www.pcbassam.org -> RT-DAS

11.5 Adopting of e-Auction Service through MSTC Portal in the Board

- The Board has registered with the MSTC Portal for e-Auction of its condemned office vehicle and other items in the month of May, 2022.
- This online Portal enables the Board to auction various items including condemned vehicles, scrap materials, reusable waste electronic items, E-waste, etc., where the bidders from anywhere in India can participate and bid their prices.
- The Board has already auctioned three (3) condemned vehicles, 2 nos. of DG Sets and various e-Wastes, Battery items through MSTC Portal.

11.6 Digitization of Attendance System (Face-Based) in the Board

- To digitize the regular attendance, the Board had initially installed FingerPrint Based Biometric Device in the year 2018 in the Head Office only.
- As per the direction of the Hon'ble Supreme Court after COVID pandemic, the Board replaced its earlier Fingerprint Based Biometric Device with Contactless Face Based Attendance Machine in the year 2021 to monitor the attendance of its employees in the Head Office.
- In the subsequent period, the Board installed similar system for its Regional Offices and developed a centralized Digitized Attendance Monitoring System in the Head Office to monitor attendance of all employees including the employees in the Regional Offices.
- Besides, the Board has developed and is implementing a Mobile Based Attendance App for the Field Assistants working under NAMP and NWMP Projects.

11.7 Implementation of e-Tendering process through State Government's e-Tender Portal

- As per Finance Department notification dated 16-12-2021, the Board has registered with the e-procurement Portal – assamtenders.gov.in, for procurement – e-Tender, of all goods, services and works worth of Rs. 25 lakhs and above.

11.8 Development & Implementation of Employee's Online Leave Management Portal

- e-Leave Management Portal is an online portal through which the Board's employee can apply for Casual Leave from their Desktop, Mobile, Tablet etc. The portal can be accessed from Board's website (Employee Corner) by entering one's credentials from anywhere. On submission of application, the applicants can track their application and get real time information about the application.
- The portal is initially developed for Head Office for applying Casual Leave, Special Leave & Restricted Holiday. On successful trial of the Portal, the same will be upgraded for other leave also viz. Earned Leave, Study Leave and Maternity Leave etc.
- The Portal will be extended to all RO/RLOs of the Board phase-wise in due course of time.

11.9 Development & Implementation of various in-house applications

The IT Section of the Board has already developed, implemented and is maintaining the following in-house applications since 2016 till date-

- Employee Information and Payroll System
- e-AIS (e-Accounting Information System)
- e-LIMS (e-Laboratory Information Management System)
- Legal Software, RTI Portal
- Waste Water Application (Repository and Report Generation System)
- Library Portal
- Public Grievance Portal

CHAPTER XII

Finance and Accounts

Finance and Accounts is a specialized branch of accounting that keeps track of the Board's financial transactions. Using standardized guidelines, the transactions are recorded, summarized, and presented in a financial report or financial statement such as an income & expenditure statement and balance sheet. The Board is collecting its fees/revenue through OCMMS online portal system only.

SERVICE

- Use Tally prime for maintaining annual accounts
- Use GEM Portal for purchase
- Use PFMS Portal to disburse payments
- Use Software to maintain CPF records for each employee of the Board.
- Use Software to prepare monthly Pay bill of the Board's employees.
- Use GST Software for submission of GST monthly return of the Board.
- Use Income Tax Portal for submission of Quarterly E-return of the Board.

FINANCIAL STATEMENT

Annual Income and Expenditure of the Pollution Control Board for the Financial Year 2023-24.

Total Revenue collected during the financial year	₹46.34 Crore
Total expenditure incurred during the financial year	₹40.41 Crore
Surplus	₹5.93 Crore

CHAPTER XIII

Implementation of Right to Information Act, 2005 and Redressal of Public Complaints

The Ministry of Law and Justice (Legislative Department), Government of India published the Right to Information (RTI) Act, 2005 in the Gazette of India on 21st June 2005 after it received the assent of the President of India on 15th June, 2005 for general information.

The main objective of the Act is to provide practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority and to hold Governments and their instrumentalities accountable to the governed.

A. Implementation of RTI Act, 2005

In the interest of public services and in pursuance of the sections 5 and 19 of the RTI Act, 2005, the Board has designated its senior officials as the First Appellate Authority and State Public Information Officer to facilitate timely actions to provide information to the persons requesting for the information under this Act. The Pollution Control Board, Assam has been taking an effective initiative to promote transparency and accountability and to set up a practical regime for giving citizens access to information. The status of applications received under this Act and their disposal during the year 2023-2024 is given in the following Table No. 13.1. There was no case of RTI First Appeal Petition in the year.

Table No.13.1: Status of Implementation of RTI Act, 2005, in the Year 2023-2024

Sl. No.	Jurisdiction	Status of RTI application		
		No. of Application Received	No. of Application Disposed	No. of Cases Pending/ Processing stage
1	HO Guwahati	63	63	0
2	RO Dibrugarh	9	9	0
3	RLO Sivasagar	25	25	0
4	RO Golaghat	14	14	0
5	RLO Tezpur	15	15	0

Sl. No.	Jurisdiction	Status of RTI application		
		No. of Application Received	No. of Application Disposed	No. of Cases Pending/ Processing stage
6	RO Nagaon	6	6	0
7	RLO Silchar	7	7	0
8	RLO Bongaigaon	8	8	0
9	RO Guwahati	15	15	0
10	Kamrup	N/A	N/A	N/A
Total		162	162	00

B. Redressal of Public Complaints

The Board has its clear mechanism to redress the public complaints received in the Head Office as well as in the ROs / RLOs. The status of public complaints received and their redress is shown in the Table No.13.2.

Table No. 13.2: Status of Public Complaints Redress, 2023-2024

Sl. No.	Jurisdiction	Status of Public Complaints		
		No. of Application Received	No. of Application Disposed	No. of Cases Pending/ Processing stage
		2023-2024	2023-2024	2023-2024
1	HO Guwahati	20	20	00
2	RO Dibrugarh	18	18	00
3	RLO Sivasagar	31	31	00
4	RO Golaghat	11	11	00
5	RLO Tezpur	14	14	00
6	RO Nagaon	16	16	00
7	RLO Silchar	5	5	00
8	RLO Bongaigaon	4	4	00
9	RO Guwahati	56	50	06
10	Kamrup	N/A	N/A	N/A
Total		175	169	06

CHAPTER XIV**Implementation of
Mission LiFE by PCBA:
A Report**

Mission LiFE is an India-led global mass movement to nudge individual, community and institutions for acting to protect and preserve environment by practising simple environment-friendly actions – LiFE actions, in their daily lives. The programme – Mission LiFE, was launched by the Government of India with a comprehensive and non-exhaustive list of 75 individual LiFE actions across 7 categories – Save Energy; Save Water; Say No to Single Use Plastic; Adopt Sustainable Food Systems; Reduce Waste; Adopt Healthy Lifestyles; Reduce E-waste. Adopting these in our daily lives, we can contribute a lot towards environmental protection and Climate Change mitigation

The Board integrated the Mission LiFE actionable points in the State as well as in the City Action Plan under NCAP in Assam. The Head Office as well as Regional Offices (ROs) / Regional Laboratory cum Offices (RLOs) of the Board, located at – Dibrugarh; Sivasagar; Golaghat; Tezpur; Nagaon; Silchar; Bongaigaon; Kamrup (Amingaon); and Guwahati, have been carrying out lots of awareness building activities among the students and common masses on benefits of adoption of Mission LiFE action points in daily lives either on their own or in collaboration with other organizations. A brief account of the activities carried out by PCBA under Mission LiFE is presented below –

A. Awareness Programme by Head Office**a) Collaboration with Institutions and NGOs**

The Board has collaborated with educational institutions to organize awareness camps either jointly with them or used their platforms to promote Mission LiFE action points. A few such institutions and NGOs of repute are – Gauhati University; IIT-Guwahati; Bhattadev University; Kumar Bhaskar Verma Sanskrit & Ancient Studies University; B. Borooah College, Guwahati; Jyoti Chitran; etc.; NGOs – Aaranyak; Centre for Cultural Integration; Earthful Foundation; Byatikram MASDO; Nanda Foundation, etc.



Snapshots of a few Awareness programmes conducted by PCBA in association with other organizations



Snapshots of a few Awareness programmes conducted by PCBA in association with other organizations

b) Promotion through Social Media Platforms

The Board launched a massive campaign through its social media platforms – Facebook@PCBAssam; Twitter@PCBAAssam and Instagram@pcbassam, posted a number of creative posts on Mission LIFE action points to create awareness among the masses. It is significant to note that the accumulated Reach, Followers and Engagement across Social Media Platforms of the Board for the period from June 2022 to March 2024 is 25,047,508, 10,235 and 21,74,820 respectively.





Published creatives on Social Media Platforms of the Board

c) Awareness cum distribution of Biodegradable alternatives of SUP items

The Board carried out awareness drives in market areas against the use of single use plastic (SUP) items and also distributed cloth bags among the people in different market areas in Guwahati city as alternative to plastic bags.



A few moments of distribution of Cloth Bags among the common people in market area as an alternative to plastic bags

d) Publication of Awareness Messages and Infographics

The Board published a lot of awareness messages and infographics highlighting the Mission LiFE action points along with easy-to-follow tips to adopt Mission LiFE action points in daily lives for betterment of the Environment, as one of its initiatives to raise awareness among the masses, in different journals; periodicals; souvenirs; and magazines etc., in the years 2022-2023 to 2023-2024.



Representative messages and infographics on Mission LiFE Action Points sponsored by PCBA for publication in different journals, magazines, souvenirs published by different Institutions and NGOs as a part of its awareness building initiative

e) Display of Information

(i) The Office has arranged for display of Mission LiFE action points through the large digital display board attached with the Continuous Ambient Air Quality Monitoring Stations (CAAQMS) under its operation as well as through other digital standees at the Office premises.



Display of Mission LiFE action points through CAAQMS digital display board at Silchar

(ii) Display of fixed standees containing the action points of Mission LiFE in different public outreach programme organized by the Board or supported by it.



Dissemination of information on Mission LiFE through display of standees at Mahashivaratri Mela at Nabagraha, Guwahati (left) and at Gauhati University, Centre for Performing Arts (right)

f) Activities for promotion of healthy and sustainable lifestyle

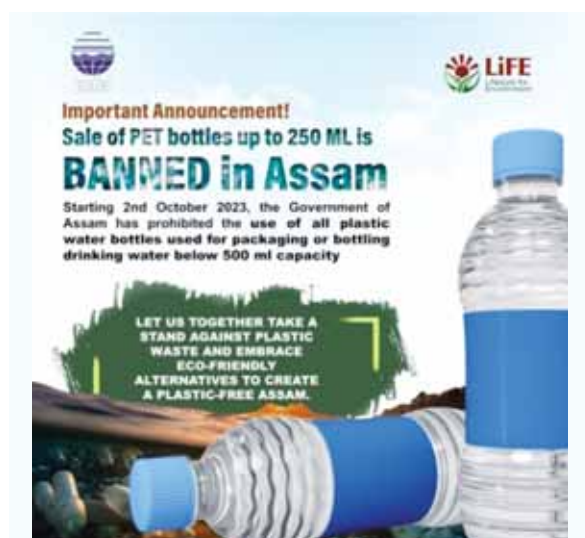
PCBA organized a walkathon under the aegis of Mission LiFE, on the occasion of World Environment Day in which not only the members of the office but also members of the public participated to show their commitment towards a greener world. Apart from the walkathon, PCBA also organized a plogging event on the same day to combine two great lifestyle-changing habits i.e. jogging and picking up litter. These events were a witness to a larger commitment made by PCBA in raising awareness towards a pro-planet approach.





g) Hackathon on “Innovative Ideas for Waste Management”

PCBA organized a hackathon inviting practical and impactful solutions for waste management. The results of the hackathon were declared on 16th August, 2023. The winners and the 1st runners-up were awarded with cash prizes and certificates.



h) Ban on drinking water bottles of capacity below 500 ml

PCBA was also instrumental in Govt. of Assam’s decision to put a blanket ban on packaged drinking water bottles of capacity below 500 ml, thus significantly reducing plastic usage in the state.

B. Mission LIFE activities by ROs and RLOs of PCBA

■ RO Dibrugarh

i. Plantation Drive:

(a) Re-plantation drive was organized by PCBA at Baghjan oil incident site on 30th April, 2023 in collaboration with Oil India Limited, Duliajan. The Member Secretary of the Board also participated in the programme.

(b) The Office also organised a plantation programme on 5th June 2023.



Re-plantation drive at Baghjan oil incident site, Duliajan on 30th April, 2023 (left) and Plantation Programme on 5th June, 2023 (right)

ii. Awareness Programme

(a) Awareness Programme on Sustainable Food System: The Office organized an awareness programme on sustainability of food system in hotels and restaurants. The programme was attended by the representatives of hotels and restaurants of the districts.



Awareness programme on sustainability of food system held on 25th May 2023 at Hotel Tea County, Dibrugarh

b) Workshop cum Awareness Programme on Bio-medical Waste Management: The Office organized the Programme on 2nd June, 2023 at Hotel Keteki to ensure proper management of bio-medical waste. The Programme was attended by representatives from different private hospitals and laboratories located in Dibrugarh district.



Awareness programme on Bio-medical waste Management held on 2nd June 2023 at Hotel Keteki, Dibrugarh

c) Awareness Programme at Schools: The Office carried out awareness programme at:

- Miri Pothar H.S School, Kolakhuwa, Dibrugarh;
- Honmilnit Jonota H.S. School, Bamkolakhua, Dibrugarh.

The programmes, which were held in the month of June 2023 emphasized on adoption of Mission LiFE action points, specially on the need of abandoning the habit of using single use plastic items and also to make plastic-free school campus.



Awareness programmes at Schools by RO Dibrugarh under Mission LiFE, 2023

d) Awareness Meet on Single Use Plastic (SUP): An awareness meet was conducted by the Office in association of Eco-sense Club, Dr. R.K.B. Law College, Dibrugarh on harmful impacts of SUP and need for use of eco-friendly alternatives against SUP items at Dibrugarh University and in Tinsukia town. The Office also distributed cloth bags among the people to be used as an alternative to plastic bags.



Moments of Awareness Meet at Dibrugarh University (left and middle) and distribution of cloth bags in market place of Tinsukia town (right)

iii. Cleanliness Drive:

Cleaning and rejuvenation of natural pond/beel in Village Panchayat area was carried out on 3rd June, 2023 by the Regional Office Dibrugarh in co-operation with the local people of the area with an objective to encourage community participation in wetland ecosystem management.



Wetlands cleanliness drive organised by RO Dibrugarh, 2023

■ RLO Sivasagar

i. Awareness Programme

(a) The Office carried out a series of awareness camps in different educational institutions to promote Mission LiFE action points, especially on air pollution. The important institutions covered under this campaign in 2022-2023 were –

- Rajiv Gandhi Institute of Petroleum Technology, Sivasagar;
- Sivasagar Commerce College, Sivasagar;
- Sivasagar Girls College, Sivasagar;
- Sivasagar College, Joysagar.



Awareness Camps organized by RLO Sivasagar under Mission LiFE, 2022-2023

(b) Door to door awareness campaign has also been carried out by the Office to sensitize people on Mission LiFE action points.



Moments of Door to Door campaign by RLO Sivasagar Mission LiFE

ii. Display of Information

(a) The Office has arranged for displaying Mission LiFE action points through the digital display attached with the CAAQMS under its operation.

(b) Display of standees containing the action points of Mission LiFE in different public outreach programmes organized by the Office.



Display of standees by RLO Sivasagar

iii. Drawing and Painting Competition

As a part of celebration of World Environment Day 2023 and promotion of Mission LiFE action points, the Office organized a Drawing and Painting Competition on 4th June 2023 at Silpakala Sangeet Vidyalaya, Moranhat, wherein students from nearby various schools participated.



Moments of Drawing and Painting Competition organized by RLO Sivasagar on 24th June, 2023

iv. Bicycle Rally

As a part of the Mission LiFE promotional programme, the Office has also organized bicyclerally in Sivasagar town to encourage people to use bicycle wherever possible to avoid fossil fuels.



Bicycle Rally organized by RLO Sivasagar

v. Cleanliness Drive



Cleanliness Drive by RLO Sivasagar under Mission LiFE initiative

RO Golaghat

i. Awareness Programme

The Office has carried out a series of Awareness Programmes under Mission LiFE initiative to encourage people to contribute towards environmental protection and climate change mitigation by adopting Mission LiFE action points in daily lives in association with Sanjibani (NGO).



Moments of programme under Mission LiFE organised by RO Golaghat



Moments of programme under Mission LiFE organised by RO Golaghat

ii. Essay Writing and Drawing & Painting Competitions

Essay Writing and Drawing & Painting Competitions were organized by the Office with the theme Beat Plastic Pollution among the school students at Bongaon Chola High School, Golaghat on 3rd June, 2023 as a part of celebration of World Environment Day, 2023 and promotion of Mission LiFE action points.



Moments of Art (left) and Essay writing competitions on Plastic Pollution organized by RO Golaghat

iii. Cleanliness Drive



Cleanliness Drive by RO Golaghat under Mission LIFE initiative

iv. Distribution of Cloth Bags and Dustbins

The Office arranged for distribution of cloth bags as substitute of single use plastic carry bags including door to door campaign. This is an attempt to motivate people to change their habit and stop using plastic carry bags. The Office also arranged for distribution /placing of dustbin in front of Government offices on in public places in Golaghat to inculcate the habit of proper disposal of solid waste.



Distribution /placing of dustbin in front of Government office (left) and Door to Door campaign and distribution of cloth bags in Golaghat town

v. Bicycle Rally

As a part of the Mission LiFE promotional programme, the Office also organized bicycle rally in Golaghat town to encourage people to use bicycle wherever possible.



Bicycle Rally organized by RO Golaghat

■ **RLO Tezpur**

i. Self-evaluation for Plastic Reduction

To ensure a plastic free working environment at RLO Tezpur, the Office placed self-evaluation criteria for Plastic Reduction as an initiative under Mission LiFE on 30-05-2023.



Moments of discussion on self-evaluation for Plastic reduction at working place, RLO Tezpur

ii. Distribution of Cloth Bags

The Office distributed cloth bags in Tezpur market areas and other places under its jurisdiction as substitute of single use plastic carry bags including door to door campaign. This is an attempt to motivate people to change their habit and stop using plastic carry bags.



Distributions of cloth bags as alternative of single use plastic carry bags by RLO Tezpur, 2023-2024

iii. Initiative for Food Waste Reduction

The Office launched drives for Hotels/Restaurants to make them aware to take initiatives on reduction of food waste at their units by serving small portions.



Awareness Camps at Hotels and Restaurants on importance of reduction of food waste

iv. Mass Awareness Campaign

The Office organised Awareness Camps in different educational institutions to promote the Mission LiFE action points and to encourage the students and teachers to adopt LiFE actions for betterment of environment and climate change mitigation, specially to take initiative to avoid single use plastic items and make plastic free school / institution environment.



Awareness Camps organized by RLO Tezpur at Sonitpur Vidya Niketan (left) and Govt. College Teachers' Education Institution, May, 2023

v. Bicycle Rally

RLO Tezpur organized a bicycle rally with students of different schools to promote bicycle routes in Tezpur town area.



Moments of bicycle rally organized by RLO Tezpur as a part of Mission LiFE action points promotion, 25-05-2023

vi. Cleanliness Drive

- (a) The Office organized Cleanliness Drives in different educational institutions as well as public places and distributed leaflet prepared for promotion of Mission LiFE action points.
- (b) The Office also carried out wetland cleaning drive with the local people to encourage people to take up wetland ecosystem restoration activity.



Plastic cleanup campaigns organised by RLO Tezpur at Sonitpur Vidya Niketan, Tezpur (top) and at Chitralkha Park, Tezpur (below)

vii. Promotion of Sustainable Agricultural Practice

An awareness program has been carried out at Borsola Development Block, Sonitpur to promote life actions in agriculture sector such as use of agriculture residue for mulching; composting; importance of soil organic matter; use of organic carbon; and switching from water intensive crops to water efficient crops.



Awareness Camp on Promotion of Sustainable Agricultural Practices

viii. Children Fest and Book Fair

The Office associated with the Children Fest and Book Fair, 2024 organised by the North East Educational Trust on 20th and 21st January, 2024 at Labarghari Chariali, Lokra, Sonitpur and promoted the Mission LiFE action points and message of clean environment for healthy living. Dr. Arup Kumar Misra, Hon'ble Chairman, PCBA participated in the events as Chief Guest and interacted with the children.



Children Fest and Book Fair, 2024 held at Labarghari Chariali, Sonitpur

■ RLO Silchar

i. Awareness Programme

The Office carried out a series of awareness programmes for promotion of Mission LiFE in area of its jurisdiction. The important institutions covered in the programme were –

- Tarani Mohan Das Academy;
- District Industries and Commerce Centre campus;
- Durga Shankar Pathsala, Silchar in association with Leo Club;
- Programme in association with SHGs and Silchar Municipal Board;
- Hailakandi in association with NGO – Green;
- Tarapur Girls' High School
- Cachar College, Silchar



Awareness programmes and capacity building activities on Mission LiFE organized by RLO Silchar



Awareness programmes and capacity building activities on Mission LiFE organized RLO Silchar

ii. Multilevel stakeholder awareness programmes

Multilevel stakeholder awareness programmes were organized by the Office at - Tarun Ram Das Laskar Academy Silchar; District Industries and Commerce Centre, Silchar; and among women self-help groups of National Urban Livelihood Mission at Silchar.



Multilevel stakeholder awareness programmes organized by RLO Silchar

iii. Cleanliness Drive

River banks (Barak River) cleaning programme was taken up by the Office in association with Silchar Municipal Board, other organizations and the local people of Tarapur area, Silchar, with an objective to involve local people in water ecosystem restoration at local level.



Awareness programmes and Cleanliness Drive under Mission LiFE organised by RLO Silchar in collaboration with Silchar Municipal Board, other organizations and local people

iv. Plantation Programme

Saplings were planted in different Schools in Silchar Town. 500 No. of saplings were distributed to the owners of stone crusher units and brick kiln units under RLO, Silchar.

v. Distribution of Cloth Bags



Distributed specially designed cloth carry bags as alternative to single use plastic carry bags

vi. Campaign through Poster



Snapshots of Posters by RLO Silchar under Mission LIFE initiative

■ RO Nagaon

i. Awareness Programme

The Office carried out a general awareness meeting cum panel discussion on World Environment Day, 2023, and on adoption of Mission Life action points in day to day life at Ambagan HS School on 5th June, 2023.



Two moments of awareness programmes carried out by RO Nagaon on Mission LIFE Action Points

ii. Bicycle Rally

A bicyclerally was organized by RO Nagaon to raise awareness on plastic pollution and importance of adoption of Mission Life action points amongst the common people in Ambagan area of Nagaon district. A large number of students of Ambagan HS School participated in the Rally wearing Mission Life Logo printed T-shirt and demonstrated self-made posters and placards highlighting the Mission Life action points.



Moment of Bicycle Rally organized by RO Nagaon

iii. Awareness cum Cloth Bags Distribution

The Office organised events for awareness building on use of bio-degradable alternatives of single use plastic items for the protection of environment and distributed cotton bags among the common people as alternative to plastic carry bags in different market places in Nagaon town, Rupahi Market, Lanka town etc. in the month of May 2023.



Distribution of Cloth Bags and awareness building initiative by RO Nagaon

iv. Street Play

The Office arranged for enactment of Street Plays in different high public gathering areas of Nagaon town, Chaparmukh Railway station, Morigaon court campus, Ambagan market place, Raha town etc. scripting about 75 actionable points under **Mission Life** on 02.06.2023. The street play was performed by the Silpa Kanan cultural group.



A moment of the Street Play on Mission LiFE action points organized by RO Nagaon

v. Door to door campaign

Door to door campaign was conducted by this Office as an awareness building activity under Mission LiFE, 2022-23 in the rural areas of Nagaon district.



Door to door campaign under Mission LiFE initiative by RO Nagaon

vi. Food Waste Reduction Initiative

The Office carried out awareness campaign in the hotels and restaurants of Nagaon town on importance of reduction of food waste in the month of May 2023.

vii. Industrial Visit

To gather knowledge and experience on Environmental Management Plants adopted by industries, the Office in association with Institution Innovation Council (Nagaon College) arranged a field visit under Mission LiFE initiatives to M/s Calcom Cement India Ltd, Lanka for students and faculties of Nagaon College (Autonomous) and also distributed leaflets on Mission LiFE among the employees of the industry.

■ RLO Bongaigaon

i. Distribution of Cloth Bags

As a part of action for Mass Mobilization for Mission Life, distribution of cloth bags was carried out in the



Distribution of cloth bags for use as alternative to plastic carry bags

market area of Bongaigaon town to encourage people to stop using plastic carry bags and make a habit of using reusable carry bags or bags made of biodegradable materials, like – cotton, jute or paper.

ii. Plastic cleanup campaign

Plastic cleanup campaigns were conducted inside the school campuses of Dolaigaon Ujanpara L.P. School, Dolaigaon and Purani Bongaigaon High School, Bongaigaon. The teachers, interested students and the Officials of the RLO Bongaigaon took part in the events.



Plastic waste cleanup drive on School premises

iii. Wetland Cleaning Drive

To encourage the people to take part in wetland ecosystem conservation, the Office has taken up Cleaning of Wetlands campaign as a part of mass mobilization for Mission LiFE at Doloni Beel and Tamranga Beel of Bongaigaon district with active support from local people.



Wetland cleaning drives involving local people by RLO Bongaigaon

iv. Awareness Programme

As a part of Mission LiFE, to promote sustainable action in agriculture, workshop cum seminar on the "Potential agricultural and environmental benefits of mulches" was conducted by this Office at Abhayapuri College, Abhayapuri.



Awareness Meet organized by RLO Bongaigaon under Mission LiFE initiative

v. Bicycle Rally

The Office also conducted a bicycle rally as a part of Mission LiFE initiative to promote cycling routes, encourage people to change habit and use bicycles wherever possible in place of motor vehicles.

■ RO Kamrup

i. Awareness Meet

The Office has organized a number of awareness meets at different schools and other institutions to make students and the common masses aware on the need for adoption of different action points under Mission LiFE initiative for the betterment of environment as well as action to mitigate climate change impacts in association with The Green Globe NGO.



Awareness Meets organized by RO Kamrup under Mission LiFE initiative at different Schools

ii. Distribution of Cloth Bag

As a part of action for Mass Mobilization for Mission Life, distribution of cloth bags has been carried out to encourage people to stop using plastic carry bags and make a habit of using reusable carry bags or bags made of biodegradable materials, like – cotton, jute or paper.



A moment of distribution of Cloth Bags for use as alternative to plastic bags

iii. Bicycle Rally

As a part of Mission LiFE initiative, bicycle rallies were organised by RO Kamrup to promote cycling routes, encourage people to change habit and use bicycles wherever possible in place of motor vehicles.



Moments of Cycle Rally organized by RO Kamrup under Mission LiFE initiative

■ RO Guwahati

i. Awareness Programme

As a part of mass mobilization for Mission Life action point, the RO Guwahati has carried out a number of awareness programmes in the areas of its jurisdiction in schools, colleges and other institutions. The important institutions covered in the programme were –

- L&D Centre, Guwahati Refinery, Guwahati;
- PWD Convention and Training Centre, Dispur, Guwahati;
- Arya Vidyapeeth College, Guwahati;
- Pragjyotish College, Guwahati;
- Guwahati College, Guwahati;
- Dispur College, Guwahati;
- Institution of Engineers' (India), Assam State Centre, Guwahati;
- Tata Institute of Social Sciences (TISS);
- India Carbon Limited, Noonmati, Guwahati, with students from Cotton University; B. Borooh College, Guwahati; Handique Girls' College, Guwahati; LCB College, Guwahati; and Royal Global University, Guwahati;
- B. Borooh College, Guwahati, with students from Botany, Chemistry, Geography, Physics, and Zoology departments of the College.



Moments of Awareness Programmes carried out by RO Guwahati on Mission LIFE Action Points

ii. Distribution of Cloth Bag

The Office arranged for distribution of cloth bags to encourage people to stop using plastic carry bags and make a habit of using reusable carry bags or bags made of biodegradable materials, like – cotton, jute or paper.



A few moments of distribution of cloth bags by the RO Guwahati

iii. Publication of Leaflet

The RO Guwahati published three (3) leaflets pertaining to Mission LiFE Action points for distribution among participants in awareness camps and the common people on various interactive meets.



Images of published Leaflets on Mision LiFE by RO Guwahati, PCBA

iv. Vehicular Emission Testing and Awareness Drive

The Office carried out a series of vehicular emission testing drives as well as awareness campaigns among the drivers on vehicular pollution and maintenance of vehicles to minimize pollution in Guwahati city. The Hon'ble Chairman, PCBA, Dr. Arup Kumar Misra also took part in the Drive in 2024.



Vehicular emission testing drives as well as awareness creating initiative on vehicular pollution carried out by RO Guwahati, 2024

CHAPTER XV

Other Activities

Celebration of 49th Foundation Day of PCBA

The Pollution Control Board, Assam celebrated its 49th Foundation Day with a day-long program at Greenwood Resort, Khanapara (Guwahati) on 2nd June, 2023 with gaiety and fervour. This Board was established on 2nd June, 1975 by the Government of Assam under the provision of Section 4 of the Water (Prevention & Control of Pollution) Act 1974. A host of eminent industry experts and administrators, government officials, besides the PCBA fraternity, attended the function to recapitulate the days gone by.



Shri Chandra Mohan Patowary, Hon'ble Minister of Environment and Forest, Govt. of Assam, inaugurates the celebration of 49th Foundation Day in presence of other dignitaries

The celebration of the Day started with an invocation by Shri Anirban Das, Chief Env. Engineer of PCBA and a group song by the members of the Board followed by the lighting of the lamp by the Chief Guest of the function, Hon'ble Minister of Environment and Forest, Govt. of Assam, Shri Chandra Mohan Patowary in the presence of Chairman, PCBA, Dr. Arup Kr. Misra; Padmashri Rabi N Bastia, CEO, Oilmax Ltd.; Shri Reep Hazarika, MD of BCPL (Dibrugarh); Dr. Lakshmanan S, Secretary Industries of Govt. of Assam; Shri S P Singh, ED of Guwahati Refinery.



Presentation of group song by the members of PCBA

The welcome address was delivered by the Board's Addl. Chief Env. Engineer Shri Meghnad Nath (presently Chief Env. Engineer). Member Secretary of the Board Dr. Shantanu Kr. Dutta presented an illustrated power point presentation covering the activities of the Board and its achievements with respect to sustainable growth of industries, monitoring facilities of the Board and implementation of Action Plan for polluted towns such as Guwahati, Nalbari, Nagaon, Silchar and Sivasagar.



Dr. Shantanu Kr. Dutta, Member Secretary, PCBA delivering his key note address in the celebration function



A section of the audience (right) in the function

Hon'ble Chairman of the Board, Dr. Arup Kumar Misra, in his keynote address, highlighted the present activities as well as the future roadmap and laid thrust on abatement of pollution and circular economy. He specially deliberated on the new initiatives taken by the Board in the last few months and solicited cooperation of every citizen of the State in performing their duties for the greater cause of the environment and sustainable development of the State.



Hon'ble Chairman, PCBA Dr. Arup Kr. Misra during the Foundation Day Celebration Function

Padmashri Rabi N Bastia, CEO, Oilmax Ltd. stressed upon active participation of everyone for the cause of the environment, quoting extensively from the verses of Indian mythology and spreading environmental consciousness by planting trees, among other healthy practices.

The Secretary to the Govt. of Assam, Industries and Commerce and PE Deptt., Dr. Lakshmanan S, appreciated the Board for speedy disposal of permission to the industries (consent) in spite of many hurdles. He informed the gathering that the Board has disposed of approximately 15,000 online applications of industries for consent within stipulated time and there is no instance of taking time beyond the stipulated period for processing any online application.



Hon'ble Chairman, PCBA with a group of employees of the Board during the celebration function

Hon'ble Minister of Environment and Forest, Govt. of Assam, Shri Chandra Mohan Patowary in his speech, stressed upon the need for innovation by the scientists and engineers of the PCBA so that the pollution level of industries can be controlled properly. He emphasized that theories of science should be applied in the field. He also laid emphasis on plantation of trees and educating the new generation to make them environmentally conscious. He declared that the State Govt. plans to carry out plantation of 1 crore 71 lakh tree saplings by this year and has a more ambitious plan for the next year. The ED of Guwahati Refinery Shri S P Singh and MD of BCPL Shri Reep Hazarika also addressed the gathering with their congratulatory messages.



Shri Chandra Mohan Patowary, Hon'ble Minister of Environment and Forest, Govt. of Assam, during his address to the audience in the celebration function

The Annual Report 2019-2022 and the Parivesh Batori – the Newsletter, Volume: XXIV; No.1 & 2 of the Board were also inaugurated by the Hon'ble Minister in presence of the Hon'ble Chairman of the Board Dr. Arup Kr Misra; Dr. Shantanu Kr. Dutta, Member Secretary, PCBA and other dignitaries present on the dais.



Inauguration of Annual Report 2019-2022 (top) and Parivesh Batori, Vol. XXIV; No. 1 & 2 (bottom)

The vote of thanks was offered by the Board's Addl. Chief Env. Scientist, Shri Monoj Saikia (presently Chief Env. Scientist). The function was very aptly anchored by Ms. Monalisa Das Saharia, which ended with the Asom Sangeet.

Celebration of 49th Foundation Day by the ROs and RLOs

The Regional Offices (ROs) and the Regional Laboratory cum Offices (RLOs) of the Board located at Dibrugarh, Sivasagar, Golaghat, Tezpur, Nagaon, Silchar, Bongaigaon, Kamrup and Guwahati also celebrated the Foundation Day. A Few moments of the celebration captured on camera are presented below:



A few moments of celebration of Foundation Day of PCBA in the ROs and RLOs

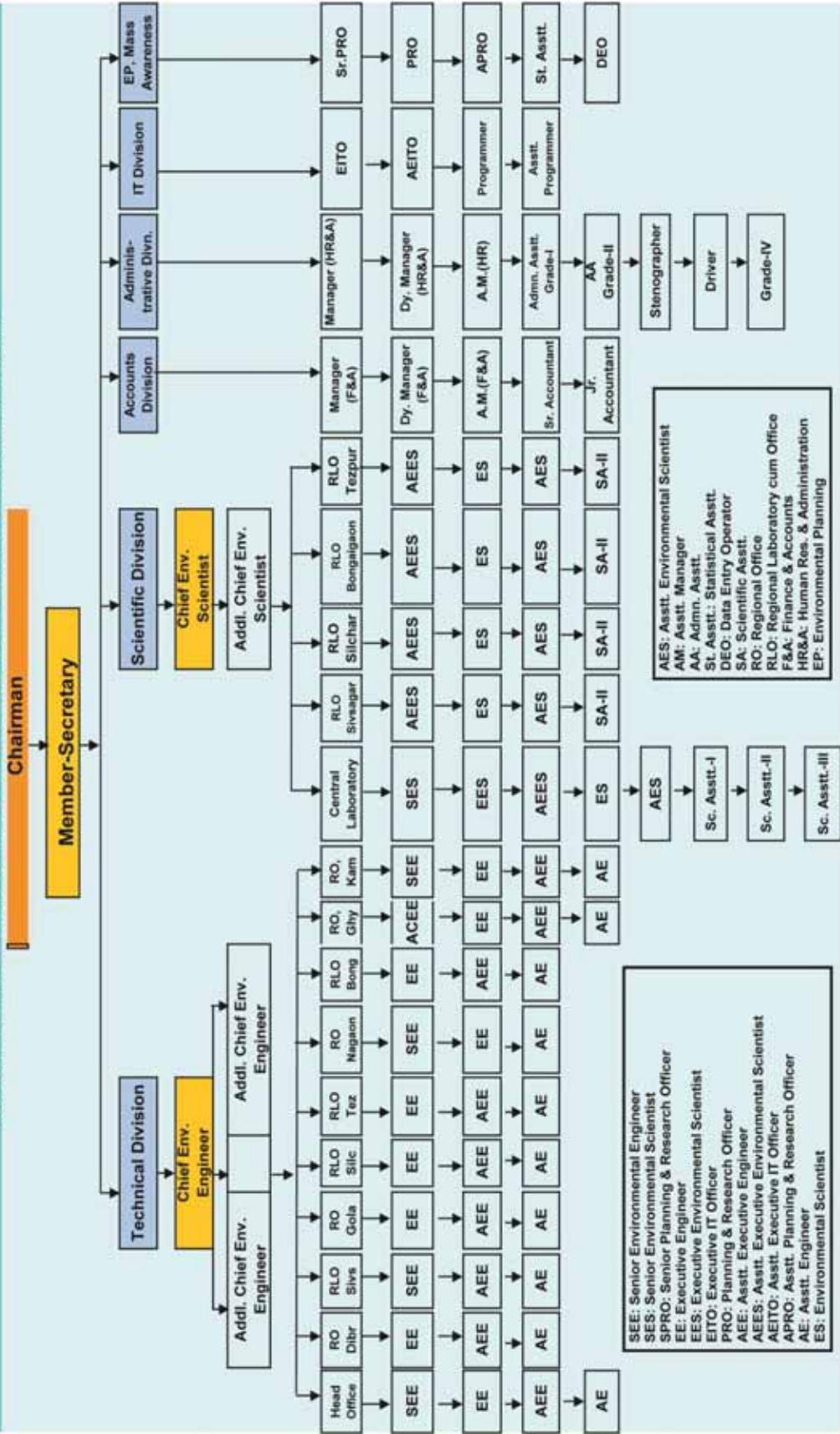
List of Board Members

Pollution Control Board, Assam

Notification No.ENG.1/2017/Pt-VII/74 dated 22nd December, 2021 of Government of Assam

Sl. No.	Name & Address	Remarks
1	Dr. Arup Kumar Misra, Chairman Pollution Control Board, Assam	Chairman
2	Dr. Shantanu Kumar Dutta, Member Secretary Pollution Control Board, Assam	Member-Secretary
Members nominated under Rule 3(1) (a) of the Water (Prevention and Control of Pollution) Assam (Amendment) Rules, 2021		
3	Representative of Environment & Forest Department	Member
4	Representative of Public Health Engineering Department	Member
5	Representative of Water Resource Department	Member
6	Representative of Industries and Commerce Department	Member
7	Representative of Power Department	Member
Members nominated under Rule 3(1) (b) of the Water (Prevention and Control of Pollution) Assam (Amendment) Rules, 2021		
8	Commissioner, Guwahati Municipal Corporation	Member
9	Commissioner, Municipal Board, Dibrugarh	Member
10	Commissioner, Municipal Board, Nagaon	Member
11	Commissioner, Municipal Board, Nalbari	Member
12	Commissioner, Municipal Board, Silchar	Member
Members nominated under Rule 3(1) (c) of the Water (Prevention and Control of Pollution) Assam (Amendment) Rules, 2021		
13	Sri Arup Barpujary, Secretary Laghu Udyog Bharati	Member
14	Dr. Jogen Chandra Kalita, Prof. of Zoology Guahati University	Member
15	Dr. Dhruvajyoti Sahariah, Prof. of Geography Guahati University	Member
Members nominated under Rule 3(1) (d) of the Water (Prevention and Control of Pollution) Assam (Amendment) Rules, 2021		
16	Managing Director, Assam Industrial Development Corporation	Member
17	Managing Director, Assam State Transport Corporation	Member

ORGANIZATION STRUCTURE OF POLLUTION CONTROL BOARD, ASSAM



Monitoring Stations under NAMP programme operated by PCBA

Sl. No.	Station Name	Station Type	District	Address
1.	Bamunimaidam	Residential	Kamrup (M)	Head office Building, Bamunimaidam, Guwahati-21
2.	Khanapara	Residential		Central Dairy Campus, Khanapara, Guwahati-22
3.	Gopinath Nagar	Residential		ITI building, Guwahati-16
4.	Santipur	Residential		Near Pragjyotish College, Bharalumukh, Guwahati.
5.	Gauhati University	Residential		Env. Sc. Deptt. campus, GU Guwahati-14
6.	Boragaon	Residential		IASST campus, Boragaon, Guwahati.
7.	Bonda	Industrial		Campus of Sc Johnson Products Pvt. Ltd. Unit-4, 1-27, Bonda Industrial Complex, Guwahati-26
8.	Ulubari	Residential/ Commercial		Campus of B.Borooah College, Ulubari, Guwahati-7
9.	Kahilipara	Residential		Rooftop of office of Directorate of Geology & Mining, Kahilipara, Guwahati.
10.	Maligaon	Residential/ Commercial		Campus of Pandu College, Maligaon, Guwahati-12
11.	Byrnihat	Industrial		Campus of Central Academy for State Forests Services, Byrnihat Kamrup(M).
12.	Barpara	Residential	Bongaigaon	Rooftop of office of Joint Director, Health Services, Bongaigaon.
13.	Campus of OIL	Residential		Campus of Oil India Ltd. PS-6, Bongaigaon.
14.	Mayapuri	Residential		Roof top of Hotel Equinox, Station Road, Bongaigaon
15.	Polo Field	Residential	Sonitpur	Rooftop of Tezpur District Cricket Association office buldg, Tezpur- 784001.
16.	Mahabhairav	Residential		Campus of Darrang College, Mahabhairav, Tezpur, Assam
17.	Agnigarh	Residential		Campus of Tezpur College, Agnigarh, Tezpur, Assam
18.	Melachakar	Residential	Sivasagar	Rooftop of Sivasagar RLO buldg., Melachakar, Sivasagar-785640.
19.	ONGC Colony	Residential/ Commercial		Campus of ONGCL Guest House, Sivasagar, Assam
20.	Rudrasagar	Residential/ Commercial		GGs-II of Rudrasagar Oil Field , ONGCL, Sivasagar, Assam
21.	Chowkidinghee	Residential	Dibrugarh	Rooftop of Dibrugarh RO buldg. Chowkidingee, Backside of ASTC Bus station, Dibrugarh-786001.
22.	Amulapatty	Residential/ Commercial		Campus of residence of Robin Bhuyan, Amulapatty, Dibrugarh
23.	Jyotinagar	Residential		Campus of Aarogya Bhawan, Jyotinagar, Dibrugarh, Assam

24.	College Tinali	Residential	Golaghat	Campus of PCBA's Golaghat Regional Office, College Tinali, Near Circuit House, Golaghat - 785621.
25.	Arengapara	Residential		Near DTO Office, Arengapara, Golaghat, Assam
26.	Mission Road	Residential		Campus of Robin Banerjee Museum, Mission Rd, Magistrate Colony, Golaghat, Assam 785621
27.	Tarapur	Residential	Cachar (Silchar)	Campus of PCBA's Silchar Regional Lab-cum-Office, Tarapur, Silchar - 788001
28.	Janiganj	Residential		Janiganj, Silchar.
29.	Kathal Road	Residential		H. No. 1018, Ward no. 16, Kathal Road, Silchar, Cachar District Assam
30.	Daranga	Residential	Baksa (Tamulpur)	Near Samdrup Jongkhar, Indo-Bhutan border, Daranga, Baksa district (BTAD)
31.	Kumarikata	Residential		Campus of Kumarikata Girls' High School, Darranga, Baksa district (BTAD)
32.	Hatiduba	Residential		Campus of Patkijuli Christian Hospital, Darranga, Baksa district (BTAD)
33.	Margherita	Residential	Margherita (Tinsukia)	Coal India Office Complex, Tinsukia, Assam
34.	Segunbari	Residential		Campus of Margherita College, Margherita-786181
35.	Chiboo Gaon	Residential/Commercial		Campus of <i>Rontix Hospital</i> , NH- 38, AT Road, <i>Margherita</i> , Assam, 786181
36.	Bazar Patti	Residential	Lakhimpur	Bazar Patti, North Lakhimpur Town, Lakhimpur, Assam
37.	Khelmati	Residential		Campus of North Lakhimpur College Khelmati, North Lakhimpur · <i>Dist- Lakhimpur, Assam-787031</i>
38.	K. B. Road	Residential/Commercial		Campus of APDCL office, K B Road, N. Lakhimpur, Assam
39.	Borguri	Residential	Tinsukia	Digboi Carbon Factory campus, Borguri, Tinsukia, Assam
40.	Shreepuria	Residential		Shreepuria (Borguri, Tinsukia)
41.	Shivdham	Residential		Shivdham, (Tinsukia)
42.	Christian Patty	Residential	Nagaon	Water Resources Division Office Campus, Christian Patty, near Nagaon College, District-Nagaon,
43.	Milanpur	Residential		Campus of PCBA's Regional Office, Milanpur, Nagaon, Assam
44.	Haibargaon	Residential/Commercial		Campus of Nowgong Girls' College, P.O.- Haibargaon Nagaon Assam- 782002
45.	Nalbari College	Residential/Commercial	Nalbari	Rooftop of Zoology Department, Nalbari College, Nalbari, Assam, PIN-781335.
46.	DC Office	Residential/Commercial		Rooftop of Amtron Office building, DC Office, Nalbari, Assam
47.	Power House Rd.	Residential		Campus of Forests Office, Nalbari, Assam-781338.

48.	Amingaon	Residential/ Commercial	Kamrup (R)	Campus of PCBA's Regional Office-Kamrup, Amingaon, Assam
49.	Baihata	Residential/ Commercial		Campus of Pub-Kamrup College, Baihata Charili, Dis-Kamrup, Assam
50.	Sualkuchi	Residential/ Commercial		Campus of Sualkuchi Budram Madhab Satradhikar College, Sualkuchi, Dis-Kamrup, Assam.
51.	Atilagaon	Residential	Jorhat	Campus of CKB Commerce College, KB Rd, Near Circuit House, Atilagaon, Jorhat, Assam 785001.
52.	Nowchaliah	Residential		Campus of AAU, Johat-781013 (Assam)
53.	Sankarpur	Residential		Campus of JEC, Sankarpur, No. 2 Bamungaon, Jorhat-785007
54.	Hagjer Nagar	Residential/ Commercial	Dima-hasao	Campus of Haflong Govt. College,Haflong, Dima Hasao, Assam
55.	Surat Nagar	Residential/ Commercial		Campus of Haflong Civil Hospital,NH-54, Haflong, Songpijaang, Dima Hasao, Assam
56.	Haflong East	Residential/ Commercial		Campus of DFO,Dima Hasao West Division, Haflong-788819, Assam
57.	Ghasbari	Residential/ Commercial	Morigaon	Campus of Morigaon College,Ghasbari, Morigaon District, Assam
58.	Bongaon	Residential	Majuli	Campus of Pub-Majuli College,Bongaon Majuli, Assam
59.	Kamalabari	Residential		Campus of Majuli College,Kamalabari, Majuli, Assam
60.	Garmur	Residential		Back side of Srimanta Sankardev Hotel, Garmur, Majuli, Assam
61.	Namati	Rural station	Nalbari	Campus of Kumar Bhaskar Varma Sanskrit & Ancient Studies University, Dhamdhama Rd, Na-mati, Khudrakatla Barkuchi, District- Nalbari, Assam – 781335
62.	Kohora	Rural station	Karbi-Anglong	Campus of Chandrasing Rongpi Memorial High School, Kohora, near Hatikhuli TE (Assam).
63.	Hajo	Rural station	Kamrup(R)	Campus of Panchatirtha Shishu-Sankardev Vidya Niketan, near Haigrib Madhab Mandir, Hajo (Assam).

Publication of the Board

In the year 2023-2024, the PCBA published the following documents as a part of its data dissemination, people outreach and awareness services.

- 1) 'Parivesh Batori – The Newsletter of Pollution Control Board, Assam', Volume: XXIV; No. 1 & 2; Issue: January, 2023 - June, 2023.
- 2) 'Parivesh Batori – The Newsletter of Pollution Control Board, Assam', Volume: XXIV; No. 3 & 4; Issue: July - December, 2023.
- 3) Annual Report, 2022 -2023.




Pollution Control Board, Assam

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