

2017 - 2018

Annual Report

MEGHALAYA STATE POLLUTION CONTROL BOARD
FORESTS & ENVIRONMENT,
GOVERNMENT OF MEGHALAYA
'ARDEN' LUMPYNGGAD,
SHILLONG





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Foreward

The Annual Report of Meghalaya State Pollution Control Board for the year ending 31st March, 2018 comprehensively reckoned such details of which inter alia includes major decisions of the Board and activities of different Committees constituted by the Board. The Board has been monitoring the Ambient Air Quality under the National Air Monitoring Programme (NAMP) sponsored by the Central Pollution Control Board at different sampling stations and the water quality of some selected water bodies in the State under the National Water Monitoring Programme (NWMP) for the purpose of prevention and control of air and water pollution and maintaining or restoring the wholesomeness of water as indicated in the Water (Prevention and Control of Pollution) Act, 1974. Under the interim directions of the Hon'ble Supreme Court, Noise Level was also measured during Diwali, water quality before and after Idol Immersion Festivals at different locations of the State Capital was also analyzed and reported. During the year under Report, the air quality was found within the prescribed standards of National Ambient Air Quality Standards. Meghalaya a Hill State with an area of about 22,429 Sq.Kms and population of 29,66,889 as per 2011 Census is rich in minerals resources like coal and limestone but unscientific mining caused severe water pollution and environmental degradation in mining areas. To mitigate the problem, the Board had enforced relevant Acts and Rules. Cases on environmental issues in the Hon'ble Supreme Court, High Court, National Green Tribunals and District Courts of the State in which the Board is a respondent either directly or indirectly have been attended to. During the Financial Year 2017 – '18, the Board's fees collection and Grant-in-aids received from the State Government facilitated defraying of essential expenditure.

The compilation of Data for the Report was a tough and challenging task as may be seen in this Report. The Office Staff of the Board deserve appreciation for their sincere efforts taking up the challenge and successful completion of the task.


C. P. Marak, IFS (Rtd.)

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CHAPTER I

INTRODUCTION

The Government of Meghalaya in the Public Health Engineering Department constituted the State Board for Prevention and Control of Water Pollution on the 16th Day of November, 1983 in pursuance of the first environmental legislation of the Country, Water (Prevention & Control of Pollution) Act, 1974. Subsequently, the responsibility and enforcement of the Air (Prevention & Control of Pollution) Act, 1981 was entrusted to the Board. The functions of the Board are laid down under Section 17 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 17 of the Air (Prevention and Control of Pollution) Act, 1981. The State Board for Prevention and Control of Water Pollution, Meghalaya was rechristened as Meghalaya State Pollution Control Board in the year 1988.

Besides the enforcement of the Water Act and the Air Act, the Board is also enforcing the following Acts, Rules and Notifications: -

- 1) The Water (Prevention and Control of Pollution) Cess Act, 1977, and as amended by Amendment Act in 1991 & Amendment Act 2003, and the Rules framed thereunder, viz., The Water (Prevention and Control of Pollution) Cess Rules, 1978.
- 2) The Environmental Protection Act, 1986 and the Rules framed there under viz.,
 - The Hazardous Waste (Management and Handling) Rules, 1989 as amended in 2016.
 - The Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
 - The Manufacture, Use, Import, Export & Storage of Hazardous Microorganism or Cells Rules, 1989.
 - The Environmental Impact Assessment Notification, 2006 and Amendments.
 - The Chemical Accidents (Emergency Planning, Preparedness & Response) Rules, 1996.
 - The Bio-Medical Wastes (Management & Handling) Rules, 1998 as amended in 2016
 - The Recycled Plastics Manufacture and Usage Rules, 1999 as amended in 2016.
 - The Fly Ash Notification, 1999.
 - The Noise Pollution (Regulation and Control) Rules, 2000.
 - The Ozone Depleting substances (Regulation) Rules, 2000.
 - The Municipal Solid Wastes (Management & Handling) Rules, 2000 as amended in 2016.
 - The Batteries (Management & Handling) Rules 2001.
 - The Construction and Demolition Waste Rules, 2016.
 - E-Waste Management Rules, 2016.
- 3) The Public Liability Insurance Act, 1991.

The Board has been functioning with **76 Employees as on 31st March 2018** against a sanctioned strength of **127**. The details of Staff Position are given in **Annexure-1**. The Organization Chart of the Board is given in **Annexure-2**.

The Central Office of the Board is located in Shillong. Presently, the Board does not have any Regional or District Offices. The Central Office is responsible for framing general policies relating to enforcement of the Acts and Rules including implementation thereof. It also looks after the general administration and coordination with other agencies. Besides, it takes up Public Awareness Programmes on matters relating to environment protection and pollution control. The Central Laboratory is well equipped and carries out analysis of samples of water, waste water, stack emission, ambient air, bacteriological tests etc.

The following are some of the main activities carried out by the State Board:-

- (i) Inspection of industries and local bodies.
- (ii) Monitoring the quality of water and wastewater.
- (iii) Monitoring the quality of ambient air and stack emissions.
- (iv) Inspection of sites proposed for setting up of industries to verify the suitability of the same from environmental point of view.
- (v) Water bodies monitoring under National Water Quality Monitoring (NWQM) Programme.
- (vi) Ambient air quality monitoring under National Air Monitoring Programme (NAMP).
- (vii) Offering guidance to industries and local bodies on statutory provisions.
- (viii) Issue of “Consents to Establish” and “Consents to Operate” in respects of industries, mining projects specified developmental projects, municipal bodies and health care facilities etc.
- (ix) Waste Management under Environmental Protection Act, 1986:
 - (a) Hazardous Waste Management:
 - Identification of Sources
 - Characterisation & Quantification of Wastes
 - Enforcement of Provisions of the Rules
 - Monitoring of Compliance to Standards
 - Submission of Annual Report to Central Pollution Control Board
 - (b) Bio-Medical Waste Management:
 - Identification of Sources
 - Characterisation & Quantification of Wastes
 - Enforcement of Provisions of the Rules
 - Monitoring of Compliance to Standards
 - Submission of Annual Report to Central Pollution Control Board

- (c) Municipal Solid Waste Management:
- Identification of Sources
 - Characterisation & Quantification of Wastes
 - Enforcement of provisions of the Rules
 - Monitoring of Compliance to Standards
 - Submission of Annual Report to Central Pollution Control Board
- (d) Batteries Management
- Identification of Sources
 - Characterisation & Quantification of Wastes
 - Enforcement of Provisions of the Rules
 - Monitoring of Compliance to Standards
 - Submission of Annual Report to Central Pollution Control Board
- (e) Plastic Management :
- Identification of Sources
 - Characterisation & Quantification of Wastes
 - Enforcement of Provisions of the Rules
 - Monitoring of Compliance to Standards
 - Submission of Annual Report to Central Pollution Control Board
- (f) Noise Pollution Management :
- Identification of Sources in respect of industries
 - Enforcement of Provisions of the Rules in respect of industries
 - Monitoring the Compliance of Standards by industries
 - Monitoring of ambient noise in Industrial/Commercial/Residential areas
- (g) E-Waste Management:
- Inventorization of E-Waste generation
 - Enforcement of Provisions of the Rules
 - Monitoring of Compliance of the Provision of the Rules
 - Submission of Annual Report to Central Pollution Control Board
- (h) Construction & Demolition Waste Management:
- Enforcement and Monitoring of the Provision of the Rules
 - Submission of Annual Report to Central Pollution Control Board

CHAPTER II

CONSTITUTION OF THE BOARD & CHANGES THEREIN

The State Government nominates the Members of the Meghalaya State Pollution Control Board. The Board was constituted under Section 4 of the Water (Prevention & Control of Pollution) Act, 1974 vide Notification No. PHE.161/83/1, dated the 16th November, 1983. The last reconstitution was notified vide Notification No. ENV.6/2008/207, dated the 20th November 2014.

The Board consists of 17 (Seventeen) Members nominated by the State Government as per provisions laid down in Sub-Section (2) of Section 4 of the Water (Prevention and Control of Pollution) Act 1974. Besides the Chairman and the Member Secretary, there are 5 (Five) Official Members representing various State Government Departments, 5 (Five) Members representing Local Authorities, 2 (Two) Members representing the Co-operatives and Corporations owned, managed or controlled by the State Government and 3(Three) Non-Official Members.

In view of the fact that the administrative control of the Board was transferred to the Forests & Environment Department, the Members of the Board are reconstituted as shown in Table 2.1 below.

Shri C.P. Marak, IFS took charge as the Chairman of the Board with effect from 30th September, 2014 and Shri J.H. Nengnong took charge as the Member Secretary of the Board with effect from 15th September, 2014.

TABLE – 2.1
Members of the Board

OFFICIAL MEMBERS		
1.	Shri C.P. Marak, IFS, Principal Chief Conservator of Forests & HoFF	: Chairman
2.	Shri J.H. Nengnong, Sr. EE Meghalaya State Pollution Control Board	: Member Secretary
3.	Chief Conservator of Forests / Conservator of Forests nominated by the Principal Chief Conservator of Forests & HOFF, Meghalaya	: Member
4.	Chief Engineer Public Health Engineering, Meghalaya, Shillong <i>or</i> his nominee	: Member
5.	The Director of Industries Meghalaya, Shillong <i>or</i> his nominee	: Member
6.	The Director of Health Services (Research, etc), Meghalaya, Shillong <i>or</i> his nominee	: Member
7.	The Director, Urban Affairs Meghalaya, Shillong <i>or</i> his nominee	: Member

I. MEMBERS FROM LOCAL AUTHORITIES		
8.	The Chief Executive Member Khasi Hills Autonomous District Council <i>or</i> his nominee	: Member
9.	The Chief Executive Member Jaintia Hills Autonomous District Council <i>or</i> his nominee	: Member
10.	The Chief Executive Member Garo Hills Autonomous District Council <i>or</i> his nominee	: Member
11.	The Chairman Shillong Municipality Board <i>or</i> his nominee	: Member
12.	The Chairman Tura Municipality Board <i>or</i> his nominee	: Member
II. REPRESENTATIVES FROM COMPANIES OR CORPORATIONS		
13.	The Managing Director Meghalaya Industrial Development Corporation <i>or</i> his nominee	: Member
14.	The Managing Director Mineral Development Corporation, Meghalaya <i>or</i> his nominee	: Member
III. NON-OFFICIAL MEMBERS		
15.	Shri Sangra A. Sangma, Asstt. Professor, Don Bosco College, Tura	: Member
16.	Dr. W. Papang Ex-Director, A.H & Vet. Department, Meghalaya, Shillong	: Member
17.	Dr. (Mrs) M.P.R. Lyngdoh, (Retired) Principal, Shillong College, Shillong	: Member

CHAPTER III

MEETING OF THE BOARD WITH MAJOR DECISIONS

3.1 Major Decisions Taken During The 68th Board Meeting Held On The 19th June 2017.

3.1.1: Annual Report of the Meghalaya State Pollution Control Board for the year 2014-2015 and 2015-2016

The Members approved the Annual Reports for the years 2014-2015 and 2015-2016 and authorized the Office of the Board to send the Annual Reports for final printing and send the same to the Government for placing in the Meghalaya Legislative Assembly.

3.1.2: Amendment of Para 7(b) of the Meghalaya State Pollution Control Board Medical Advance & Reimbursement Regulations

On reviewing of the Meghalaya State Pollution Control Board Medical Advance & Reimbursement Regulation, 2016 at Para 7 clause (b) relating to sickness not requiring hospitalization where it was stated that “*Reimbursement only towards cost of medicines, tests such as X-Rays, Scanning, Ultrasound, dental treatment, etc.*” it is of the opinion that for smooth implementation of this clause, recommendation of the Authorized Physician is required before undertaking such treatment. Hence, it is proposed that the mentioned Para of the Regulation may be amended as below:

“Reimbursement only towards cost of medicines, tests such as X-Rays, Scanning, Ultrasound, dental treatment, etc. with prior recommendation of the Authorized Physician and each Bill to be countersigned by the Authorized Physician to ensure authenticity provided that only in case of emergency post facto approval may be sought for from the Authorized Physician.”

The Members approved the changes to be made with a proviso that emergency cases will require post facto approval.

3.1.3 Budget estimate for Expenditure from the Resources of the Board.

The revenue receipt of the Board in the form of Consent Fees, Authorization Fees, Analysis Fees, Monitoring Fees etc. during the financial year 2015-2016 was Rs.168.77 Lakhs and that of the financial year 2016-2017 was Rs.262.76 Lakhs and the expenditure incurred during the period 2015-2016 and 2016-2017 was Rs.25.14 Lakhs and Rs.50.90 Lakhs respectively. The Budget amount of Expenditure to be incurred from the Resources of the Board for financial year 2017-2018 was estimated to be Rs.340.21 Lakhs, for

- (i) Office Expenses for (Water Fees, Telephone Bills, News Papers, Postage & Stamps, Electricity Bills, Hospitality, Internet Charges, Printing & Stationeries Materials and Other Expenses) Rs.8.00 Lakhs,
- (ii) Travelling Expenses Rs.15.00 Lakhs,
- (iii) Tools & Plants Rs.10.00 Lakhs,
- (iv) Furniture & Fixtures Rs.9.50 Lakhs,
- (v) Medical Re-imburement Bills including Travelling Allowance Rs.15.00 Lakhs,
- (vi) Running & Maintenance of Vehicle/Insurance of Vehicle Rs.5.00 Lakhs,
- (vii) Training, Awareness, Workshop Including Travelling Allowance Rs.5.00 Lakhs,

- (viii) Chemicals & Glassware Rs.16.00 Lakhs,
- (ix) Procurement of Instruments for Laboratory Rs.25.00 Lakhs,
- (x) Acquisition & Maintenance of Laboratory Rs.13.00 Lakhs,
- (xi) Legal Fees for including Travelling Allowance for Advocate Rs.15.00 Lakhs,
- (xii) Repairing & Maintenance of Building Rs.10.00 Lakhs,
- (xiii) Arrear of U.D.A. & L.D.A. for correction scale of pay Rs.16.71 Lakhs,
- (xiv) Contingency Fund Rs.90.00 Lakhs,
- (xv) Purchase of New Vehicles Rs.36.00 Lakhs,
- (xiv) Gratuity Fund Rs.50.00 Lakhs,
- (xvii) Insurance for Laboratory Instruments Rs.1.00 Lakhs.

The Budget Estimate was made in anticipation of present collection during the current financial year 2017-2018.

The Members approved the Budget Estimate from the Resources of the Board for an amount of Rs.340.21 Lakhs and that the achievements be incorporated in the Annual Report 2017-2018.

3.2 Major Decisions Taken During The 69th Board Meeting Held On The 22nd September 2017.

3.2.1: Representative from State Pollution Control Board to be nominated as a permanent member in the State Level Environment Impact Assessment Authority.

The Deputy Secretary to the Government of Meghalaya, Forest and Environment Department forwarding a copy of the letter from the Joint Secretary, Government of India, Ministry of Environment, Forest & Climate Change which states and refers to the letter No.29012/ESS/CPA/2016-17/2570 dated 02.02.2017 of Central Pollution Board regarding Grant of Consent under the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 and Air (Prevention and Control of Pollution) Act, 1981 and changing consent fees thereon. As per the Central Pollution Control Board letter following modified mechanism for granting of Consent to various categories of projects requiring environmental clearance has been prescribed.

- i. There should not be any need to obtain Consent to Establish for Building/ Contribution Projects/ Area Development Project and Township Projects which are mentioned at Sl.No. 8(a) and 8(b) of Schedule of Projects in Environmental Impact Assessment Notification, 2006. For such projects, Environment Clearance shall suffice subject to the condition that there should be a permanent member from State Pollution Control Board in the State Level Environmental Impact Assessment Authority to represent the views of State Pollution Control Board.
- ii. Further, all the projects requiring Environmental Clearance either from State Level Environmental Impact Assessment Authority or Ministry of Environment and Forests & Climate Change may be exempted from obtaining the Consent to Establish. Such projects may be directly granted Consent to Operate subject to Environmental Clearance and installation of pollution control devices.

In view of para –i above, the Joint Secretary, Government of India, Ministry of Environment, Forest & Climate Change requested that a representative from State Pollution Control Board should be

nominated as a permanent member in the State Level Environment Impact Assessment Authority to represent the views of the State Pollution Control Boards.

It may be mentioned here that the State Level Environment Impact Assessment Authority is constituted by the Government of India, Ministry of Environment, Forest & Climate Change as per the Environmental Impact Assessment Notification, 2006. Further, the grant of Consent to Establish is on the recommendation of the Consent Committee Constituted by the Board under Section 9 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 11 of the Air (Prevention and Control of Pollution) Act, 1981 comprising the Chairman of the Board as a Chairman of the Committee with Members representing various stake holders Department and Member Secretary of the Board as Member Convener.

It was, therefore, suggested that the Chairman or the Member Secretary of the Board may be nominated as a Member of the State Environment Impact Assessment Authority as a representative of the Board as desired by the Government of India, Ministry of Environment, Forest & Climate Change.

It was resolved that the Chairman or his nominee shall be nominated as the member of State Environment Impact Assessment Authority representing Meghalaya State Pollution Control Board and the same shall be communicated to the Ministry of Environment, Forest & Climate Change, Government of India and State Government for necessary actions.

3.2.2: Restructuring of the organizational structure and staffing pattern of the Board as per Indicative guidelines and suggestive norms for estimating requirement of manpower (staffing) for SPCBs and PCCs with specific reference to the Water Act. Ref: Directions of the Hon'ble NGT in the matter of M.C.Mehta v/s. Union of India (O.A.No.200 of 2014) – judgement dated 13.07.2017 – Prevention & Control of Pollution of River Ganga.

In accordance to the guidelines issued by the Central Pollution Control Board, a draft Restructuring of the Organizational structure and staffing pattern of the Board has been prepared and placed before the Board for perusal and approval.

It was further informed that as per the guidelines of the Central Pollution Control Board, there will be different divisions in the Board for the enforcement of the Water Act, Air Act and Waste Rules notified under Environment (Protection) Act, 1986. Initially the Waste Rule applies only to urban areas only but now the new Waste Rules 2016 needs to be implemented to rural areas as well. Hence, the duties and responsibilities of the Board have expanded manifold.

The Members approved the proposal for restructuring of the staffing pattern of Meghalaya State Pollution Control Board for sending to the Government for necessary consideration and approval. Further, the Board resolved the creation of additional/new posts shall be done in a phase manner on priority basis by stressing on the enforcement and implementation of the Acts and Rules at field level.

3.2.3: Budget Proposal of Salary & Non-Salary Expenditures of the Board from State Government during the financial year 2018-2019.

The Member Secretary placed before the Board, the Budget Proposal for the year 2018-2019 as highlighted below:

1. SALARY:

a. Salary of Officers/Staff	Rs. 599,94,471/-
b. Including Employer's Contribution towards EPF,	Rs. 61,40,748/-
c. Leave Salary Contribution & Pension Contribution	Rs. 12,00,000/-
d. <u>Monthly Conveyance Allowance to Chairman/ M. Secretary</u>	<u>Rs. 1,50,000/-</u>
Total of Salary Head Expenditures	Rs. 674,85,219/-

2. NON-SALARY EXPENDITURES:

a. Office expenses (Energy Bills, Telephone Bills, Operation & Maintenance of Computers, Board's Vehicles, Procurement of essential Office Stationery, Office Furnitures, POL cost and other Expenses in performing Air, Water Monitoring and others Official inspection programmes.	Rs. 50,00,000/-
b. Travelling Expenses.	Rs. 20,00,000/-
c. Private Advocate Appearing Fees	Rs. 15,00,000/-
d. Training, Awareness, Workshops	Rs. 10,00,000/-
e. Purchase of Essential Laboratory. Re-Agents, Chemicals & Glasswares	Rs. 10,00,000/-
f. <u>DCRG & Leave Salary Encashment for retiring Staff</u>	<u>Rs. 10,00,000/-</u>
Total Non-Salary Expenditures	Rs. 115,00,000/-

Total Budget Estimate for Salary & Non-Salary Expenditures of the Board amounting to Rs.7,89,85,219/- (**Rupees Seven Crores Eighty Nine Lakhs Eighty Five Thousands Two Hundreds and Nineteen**) only during the Financial year 2018-2019 has already been submitted to the State Govt. vide letter No.MPCB/Ac-169(2017)/2017-18/2, dated 19.09.2017.

It was informed that the Budget for the financial year 2017-2018 was Rs.4.9 crores whereas for 2018-2019 was 6.7 crores for the Head of Salary. The Budget under the Non-Salary Head for financial year 2017-2018 was Rs.70 lakhs whereas for 2018-2019 it was projected at Rs.1.15 crore on account of many Travelling Expenses, Workshops, Training and Awareness, increase of court cases etc.. The Members suggested that Budget for the financial year 2018-2019 with regards to Private Advocate Appearing Fees be raised up from Rs.15,00,000/- to Rs.20,00,000/- and the expenditure of Training, Awareness, Workshops is projected from Rs.10,00,000/- to Rs.25,00,000/- to meet the required expenditures.

The Members approved the Budget Proposal for the year 2018-2019 to be sent to the Government for necessary approval.

3.3. Major Decisions Taken During The 70th Board Meeting Held On The 15th December, 2017.

3.3.1: *Approval for implementation of the 5th Pay Commission in the Office of the Meghalaya State Pollution Control Board*

In pursuance of the Govt. Order vide letter No. F. (PR)-49/2017/192 dated 28th November 2017 regarding implementation of the 5th Pay Commission, it was suggested the matter may be taken up with the Government for provision of fund. The matter was placed before the Board for adoption and implementation of the 5th Pay Commission.

In reply to the query of the Chairman, the Member Secretary informed that financial implications for 40% arrear as well as salary under the new pay have been worked out and will be released subject to availability of fund.

It was resolved to adopt and implement the 5th Pay Commission of the Government and that they may kindly be moved for financial support.

CHAPTER – IV

COMMITTEES CONSTITUTED BY THE BOARD & THEIR ACTIVITIES

The following Committees are constituted by the Board with their activities to strengthen the functions of the Board from time to time.

I. MEMBERS OF THE CONSENT COMMITTEE

1. Chairman, Meghalaya State Pollution Control Board, Shillong. : Chairman
2. Senior Inspector of Boilers & Factories, Inspectorate of Boilers & Factories, Meghalaya, Shillong. : Member
3. Conservator of Forests, Meghalaya, Shillong. : Member
4. Deputy Director, Directorate of Industries, Meghalaya, Shillong. : Member
5. Director of Mineral Resources, Meghalaya, Shillong. : Member
6. Member Secretary, Meghalaya State Pollution Control Board, Shillong. : Member Convener

II. MEMBERS OF THE PURCHASE COMMITTEE

1. Chairman, Meghalaya State Pollution Control Board, Shillong. : Chairman
2. Director of Industries *or* his nominee. : Member
3. Chief Engineer P.H.E Deptt. Meghalaya *or* his nominee : Member
4. The Director, Regional Sophisticated Instrument Centre Bijni Complex, N.E.H.U, Shillong. : Member
5. Senior Scientist, Indian Council of Agricultural Research (I.C.A.R), Umiam. : Member
6. Member Secretary, Meghalaya State Pollution Control Board, Shillong. : Convener

III. MEMBERS OF THE SELECTION COMMITTEE FOR GRADE 'A' POSTS

1. Principal Secretary/Commissioner & Secretary to the Govt. of Meghalaya, Forests & Environment Deptt. : Chairman
2. Chairman, Meghalaya State Pollution Control Board, Shillong. : Member
3. Deputy Secretary/Under Secretary to the Government of Meghalaya, Forests & Environment Deptt. : Member
4. Environmental Engineer, I/C North Eastern Zonal Office Central Pollution Control Board, Shillong. : Member
5. Member Secretary, Meghalaya State Pollution Control Board, Shillong. : Member Convener

Activities:

The Selection Committee of the Board vide letter No.MPCB/Estt-270/2017-18/3, dated 10th May 2017 has conducted the interview for the post of Assistant Environmental Engineer. As per the notification issued vide letter No.MPCB/Estt-270/2017-18/6, dated 18th May 2017 the selected candidate namely Kumari Erisa Shilla was appointed vide letter No.MPCB/Estt-154/2017-2018/152, dated 22nd May 2017.

IV. MEMBERS OF THE SELECTION COMMITTEE FOR GRADE 'B', 'C' & 'D' POSTS

1. Chairman, Meghalaya State Pollution Control Board, Shillong. : Chairman
2. Addl. Principal Chief Conservator of Forests/Chief Conservator of Forests (Administration) or his nominee. : Member
3. Environmental Engineer, I/C North Eastern Zonal Office Central Pollution Control Board, Shillong. : Member
4. Member Secretary, Meghalaya State Pollution Control Board, Shillong. : Member
5. Administrative Officer/Establishment Officer Meghalaya State Pollution Control Board, Shillong. : Member Convener

Activities:

The Selection Committee of the Board for Grade B and C posts was held on 4th September 2017 and conducted the interview for the post of L.D.A. in the Office of the Meghalaya State Pollution Control Board. As per the Notification issued vide letter No. MPCB/Sc-Pt/2017-18/57, dated 23rd October 2017, the Committee have recommended the eligible candidates, and appointment letter have been issued vide letter No.MPCB/Estt-154/2017-2018/153, dated 28th November 2017.

V. MEMBERS OF THE PROMOTION COMMITTEE FOR GRADE 'A' POSTS

1. Chairman, Meghalaya State Pollution Control Board, Shillong. : Chairman
2. Addl. Principal Chief Conservator of Forests/Chief Conservator of Forests (Administration) or his nominee. : Member
3. Member Secretary, Meghalaya State Pollution Control Board, Shillong. : Member
4. Senior Scientist/Scientist 'C' Meghalaya State Pollution Control Board, Shillong. : Member
5. Sr. Environmental Engineer/Environmental Engineer Meghalaya State Pollution Control Board, Shillong. : Member
6. Administrative Officer/Establishment Officer Meghalaya State Pollution Control Board, Shillong. : Member Convener

Activities:

The Promotion Committee of the Board vide letter No.MPCB/Gen-78(Pt-I)/2017-18/27, dated 6th April 2017 has approved the promotion of Shri S. Swer, Scientist 'B' to Scientist 'C' and Smti N. Deka, Senior Scientific Assistant to the post of Scientist 'B'.

VI. MEMBERS OF THE PROMOTION COMMITTEE FOR GRADE 'B' & 'C' POSTS

1. Chairman, Meghalaya State Pollution Control Board, Shillong : Chairman
2. Addl. Principal Chief Conservator of Forests/Chief Conservator of Forests (Administration) or his nominee. : Member
3. Senior Scientist/Scientist 'C' : Member
Meghalaya State Pollution Control Board, Shillong
4. Sr. Environmental Engineer/Environmental Engineer : Member
Meghalaya State Pollution Control Board, Shillong
5. Administrative Officer/Establishment Officer : Member Convener
Meghalaya State Pollution Control Board, Shillong

Activities:

The Promotion Committee of the Board vide letter No.MPCB/GEN-85/2017-18/38 dated 6th April 2017 has approved the Promotion of Smti M.N. Diengdoh, Junior Scientific Assistant I to Senior Scientific Assistant and Shri M. Laitphlang, Tracer to the post of Draftsman.

CHAPTER – V

AIR QUALITY MONITORING

5.1.0 NATIONAL AIR QUALITY MONITORING

The Meghalaya State Pollution Control Board was monitoring the Ambient Air Quality at 10 (ten) stations in the state under National Air Monitoring Programme (NAMP) sponsored by Central Pollution Control Board (Fig.5.1.0). The frequency of monitoring was twice a week. Particulate Matter (PM10), Sulphur dioxide (SO₂), Nitrogen dioxide (NO₂) and meteorological parameters viz. wind speed, wind direction, ambient air temperature, humidity, etc. were monitored at these stations and the observations are presented below:-

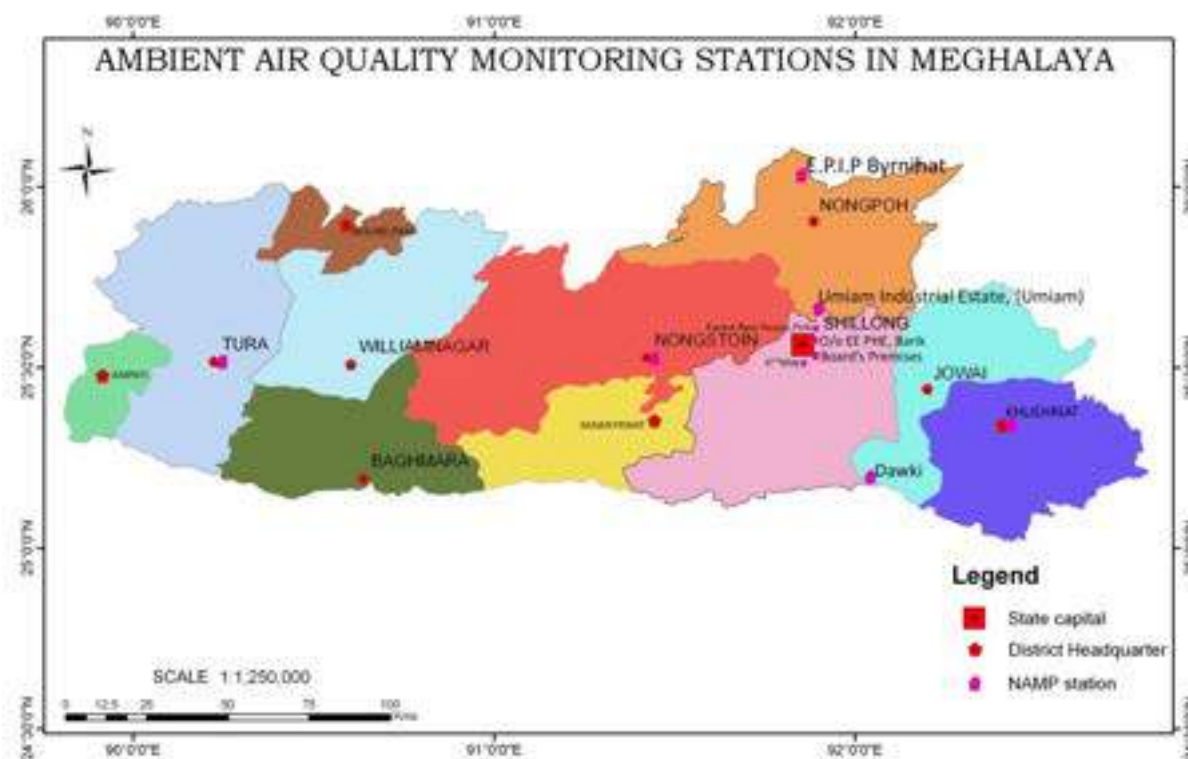


FIG. 5.1.0: LOCATION OF NAMP STATIONS IN THE STATE

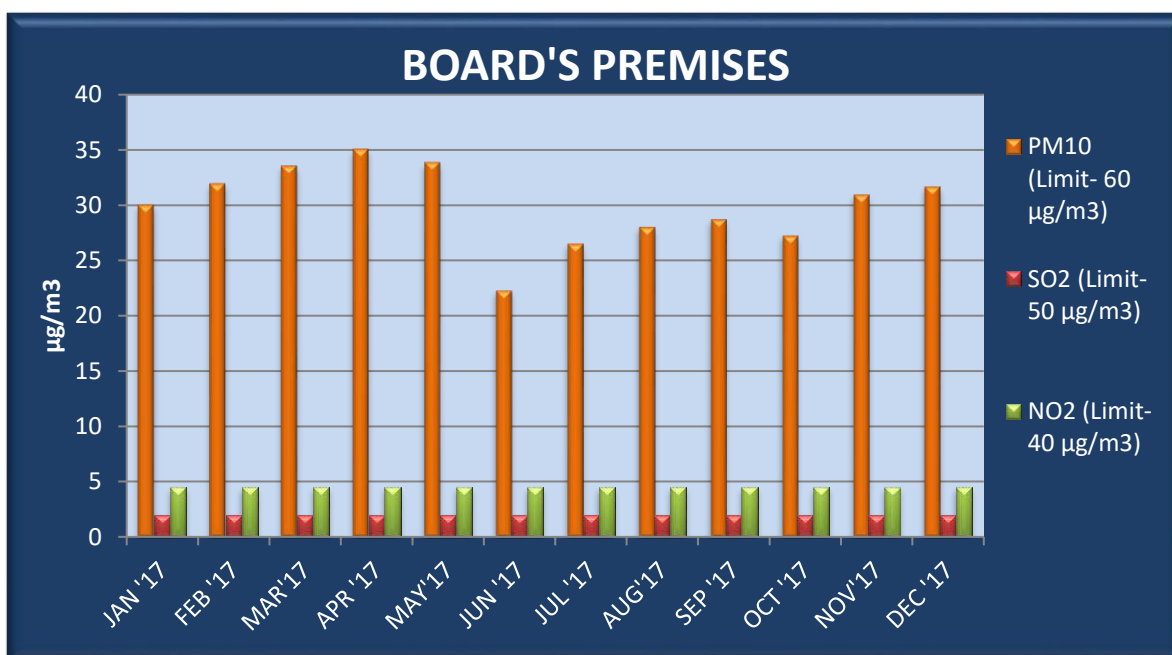
5.1.1: Board's Office Premises, Lumpynggad, Shillong (Station – I):

Ambient air quality monitoring data during 2017 monitored at the Board's Office Premises, Lumpynggad, Shillong, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂) & Particulate Matter (PM10) were within the prescribed standards of National Ambient Air Quality standards. The monitoring results during the period are shown in Table 5.1.1 and depicted in Figure 5.1.1.

Table 5.1.1: Ambient Air Quality data at Board's Office Premises, Lumpyngngad, Shillong, (Stn I), 2017.

Months → Parameters ↓	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Avg.
PM10 ($\mu\text{g}/\text{m}^3$)	30	31.9	33.5	35	33.8	22.3	26.5	28	28.7	27.2	30.9	31.6	29.9
SO ₂ ($\mu\text{g}/\text{m}^3$)	2	2	2	2	2	2	2	2	2	2	2	2	2
NO ₂ ($\mu\text{g}/\text{m}^3$)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5

Permissible Limits: PM10 ($\mu\text{g}/\text{m}^3$) – 60, SO₂ ($\mu\text{g}/\text{m}^3$) – 50, NO₂ ($\mu\text{g}/\text{m}^3$) – 40


 Fig.5.1.1: Monthly average of PM10, SO₂, and NO₂ levels at Board's Premises, Shillong.

5.1.2: O/o EE (PHE), Hills Division, Barik, Shillong. (Station – II):

Ambient air quality monitoring data during 2017 monitored at O/o EE (PHE), Hills Division, Barik, Shillong revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), and Nitrogen Dioxide (NO₂) were within the prescribed standards of National Ambient Air Quality standards. Particulate Matter (PM10) levels were above the National Ambient Air Quality standards. The monitoring results during the period is shown in Table 5.1.2 and depicted in Figure 5.1.2.

Table 5.1.2: Ambient Air Quality data at O/o EE (PHE), Hills Division, Barik, Shillong. (Stn – II), 2017

Months → Parameters ↓	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Avg.
PM10 ($\mu\text{g}/\text{m}^3$)	76.5	80.7	74.1	42.6	64.5	49.3	48.9	43.8	55.7	57.3	58.9	56.8	59.1
SO ₂ ($\mu\text{g}/\text{m}^3$)	2	2	2	2	2	2	2	2	2	2	2	2	2
NO ₂ ($\mu\text{g}/\text{m}^3$)	24.7	27	28.9	29.1	22.1	18.4	26.6	23.4	25	25.2	24.7	23.6	24.8

Permissible Limits: PM10($\mu\text{g}/\text{m}^3$) – 60, SO₂($\mu\text{g}/\text{m}^3$) – 50, NO₂($\mu\text{g}/\text{m}^3$) – 40

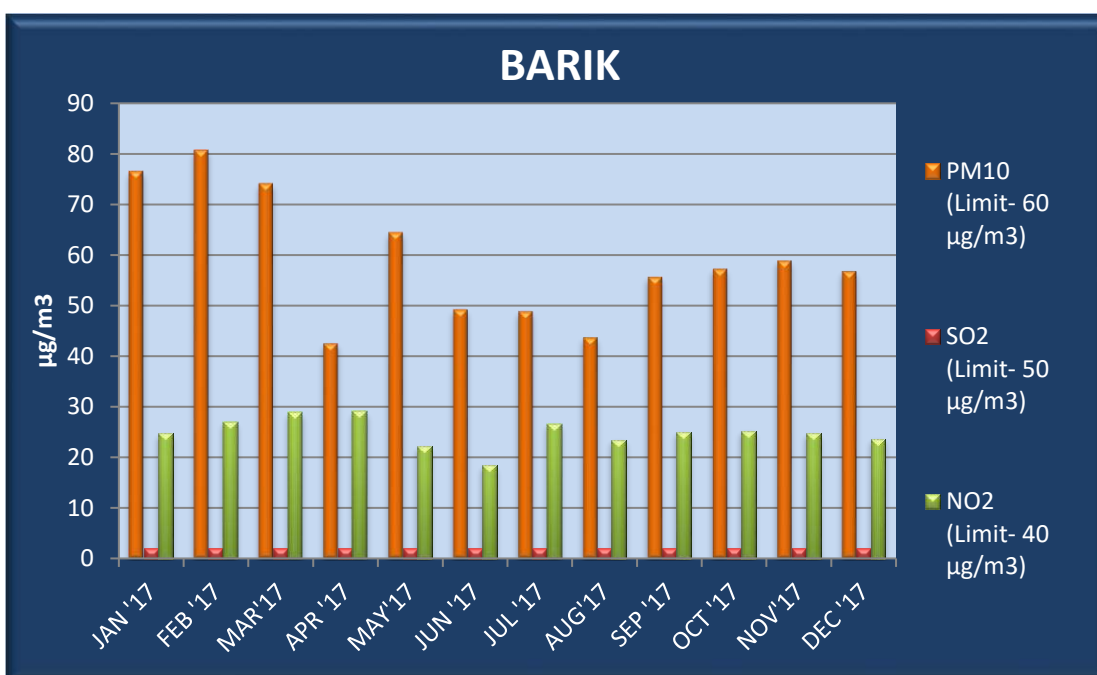


Fig.5.1.2: Monthly average of PM10, SO₂, and NO₂ levels at Barik, Shillong.

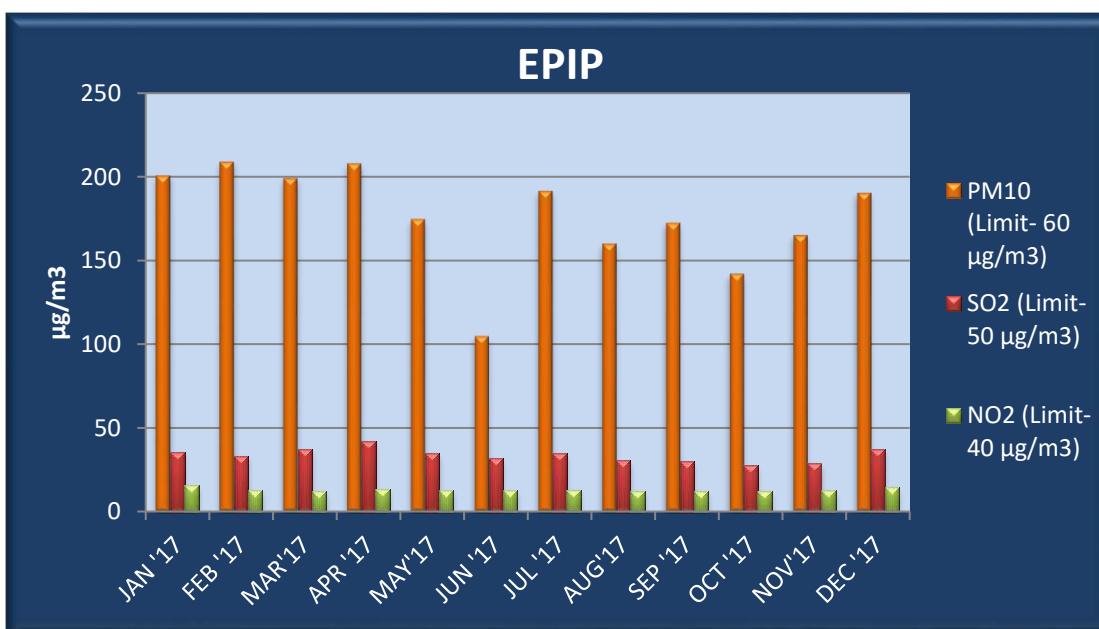
5.1.3: Export Promotion Industrial Park(EPIP), Byrnihat, Ri-Bhoi District (Station – III):

Ambient air quality monitoring data during 2017 monitored at EPIP, Byrnihat, Ri-Bhoi District, an industrial area, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), and Nitrogen Dioxide (NO₂) were within the prescribed standards of National Ambient Air Quality standards. Particulate Matter (PM₁₀) levels were above the National Ambient Air Quality standards. The monitoring results during the period is shown in Table 5.1.3 and depicted in Figure 5.1.3.

Table 5.1.3: Ambient Air Quality data at EPIP, Byrnihat, Ri Bhoi District, (Stn – III), 2017

Months → Parameters ↓	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Avg.
PM10 (µg/m ³)	200.7	208.9	199.2	207.9	174.6	104.7	191.5	160	172.4	141.9	165.1	190.4	176.4
SO ₂ (µg/m ³)	35.1	33.1	37.3	42.1	34.9	31.8	34.6	30.3	29.7	27.5	28.6	37.1	33.5
NO ₂ (µg/m ³)	15.4	12.7	12.4	13.5	12.8	12.8	13	12.4	12.3	12.3	12.6	14.5	14.1

Permissible Limits: PM10(µg/m³) – 60, SO₂(µg/m³) – 50, NO₂(µg/m³) - 40


Fig.5.1.3: Monthly average of PM10, SO₂, and NO₂ levels at EPIP, Byrnihat, Ri Bhoi District
5.1.4: Dawki, West Jaintia Hills District (Station – IV):

Ambient air quality monitoring data during 2017 monitored at Dawki, West Jaintia Hills District, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂) & Particulate Matter (PM₁₀) were within the prescribed standards of National Ambient Air Quality standards. The monitoring results during the period is shown in Table 5.1.4 and depicted in Figure 5.1.4.

Table 5.1.4 : Ambient Air Quality data at Dawki, West Jaintia Hills District, (Stn – IV), 2017

Months → Parameters ↓	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Avg.
PM ₁₀ ($\mu\text{g}/\text{m}^3$)	41.5	34	37.3	31.8	26.8	21.9	21.1	20.5	20.8	22.4	28.8	29.3	28
SO ₂ ($\mu\text{g}/\text{m}^3$)	2	7.1	2	2	2	2	2	2	2	2	2	2	2
NO ₂ ($\mu\text{g}/\text{m}^3$)	11.8	15.3	13.9	13.1	9.4	8.8	9.5	9.2	10.2	10.3	11.7	12.2	11.2

Permissible Limits: PM₁₀($\mu\text{g}/\text{m}^3$) – 60, SO₂($\mu\text{g}/\text{m}^3$) – 50, NO₂($\mu\text{g}/\text{m}^3$) - 40

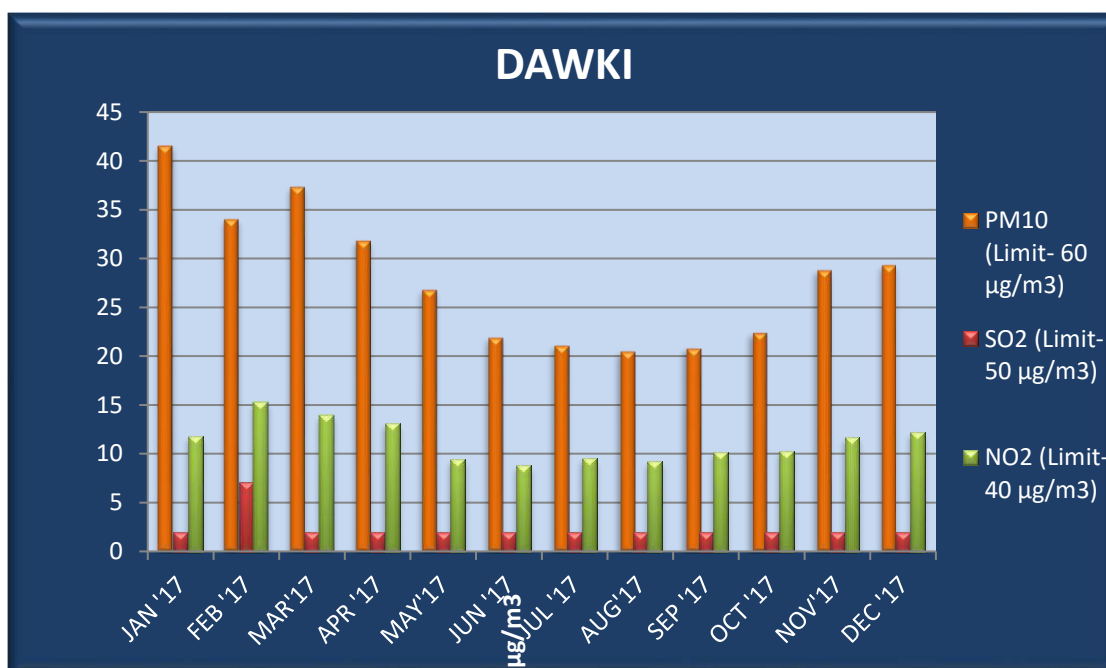


Fig. 5.1.4: Monthly average of PM₁₀, SO₂, and NO₂ levels at Dawki, West Jaintia Hills District.

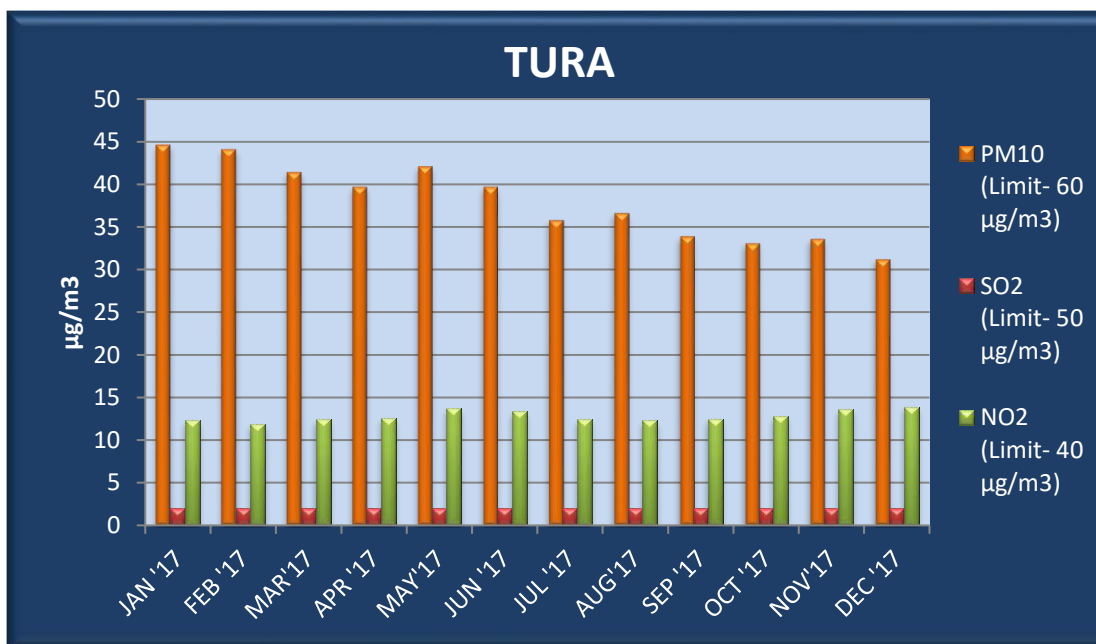
5.1.5: Tura, West Garo Hills District (Station – V):

Ambient air quality monitoring data during 2017 monitored at Tura, West Garo Hills District, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂) & Particulate Matter (PM₁₀) were within the prescribed standards of National Ambient Air Quality standards. The monitoring results during the period is shown in Table 5.1.5 and depicted in Figure 5.1.5.

Table 5.1.5: Ambient Air Quality data at Tura, West Garo Hills District, (Stn – V), 2017

Months → Parameters ↓	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Avg.
PM10 ($\mu\text{g}/\text{m}^3$)	44.6	44.1	41.4	39.7	42.1	39.7	35.8	36.6	33.9	33.1	33.6	31.2	38.0
SO ₂ ($\mu\text{g}/\text{m}^3$)	2	2	2	2	2	2	2	2	2	2	2	2	2
NO ₂ ($\mu\text{g}/\text{m}^3$)	12.3	11.9	12.4	12.6	13.7	13.4	12.4	12.3	12.5	12.8	13.6	13.9	12.8

Permissible Limits: PM10 ($\mu\text{g}/\text{m}^3$) – 60, SO₂ ($\mu\text{g}/\text{m}^3$) – 50, NO₂ ($\mu\text{g}/\text{m}^3$) - 40

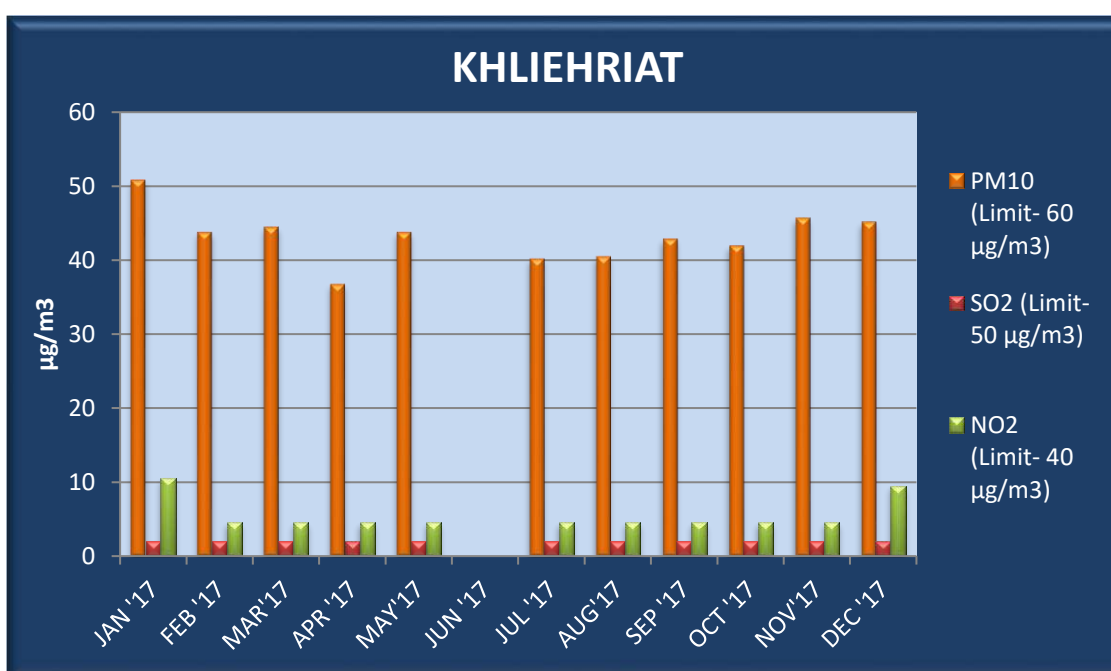

Fig. 5.1.5: Monthly average of PM10, SO₂, and NO₂ levels at Tura, West Garo Hills District
5.1.6: Khliehriat, Jaintia Hills District, (Station – VI):

Ambient air quality monitoring data during 2017 monitored at Khliehriat, Jaintia Hills District, revealed that the Annual Average concentrations of Particulate Matter (PM₁₀), Sulphur Dioxide (SO₂), and Nitrogen Dioxide (NO₂) were within the prescribed standards of National Ambient Air Quality standards. The monitoring results during the period is shown in Table 5.1.6 and depicted in Figure 5.1.6.

Table 5.1.6: Ambient Air Quality data at Khliehriat, East Jaintia Hills District, (Stn-VI), 2017

Months → Parameters ↓	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Avg.
PM10 ($\mu\text{g}/\text{m}^3$)	50.8	43.8	44.5	36.8	43.8	-	40.2	40.5	42.9	42	45.7	45.2	43.3
SO ₂ ($\mu\text{g}/\text{m}^3$)	2	2	2	2	2	-	2	2	2	2	2	2	2
NO ₂ ($\mu\text{g}/\text{m}^3$)	10.5	4.5	4.5	4.5	4.5	-	4.5	4.5	4.5	4.5	4.5	9.5	4.5

Permissible Limits: PM10($\mu\text{g}/\text{m}^3$) – 60, SO₂($\mu\text{g}/\text{m}^3$) – 50, NO₂($\mu\text{g}/\text{m}^3$) - 40


Fig. 5.1.6: Monthly average of PM10, SO₂, and NO₂ levels at Khliehriat, East Jaintia Hills District
5.1.7: Nongstoin, West Khasi Hills District (Station – VII):

Ambient air quality monitoring data during 2017 monitored at Nongstoin, West Khasi Hills District, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂) & Particulate Matter (PM₁₀) were within the prescribed standards of National Ambient Air Quality standards. The monitoring results during the period is shown in Table 5.1.7 and depicted in Figure 5.1.7.

Table 5.1.7: Ambient Air Quality data at Nongstoin, West Khasi Hills District. (Stn-VII), 2017

Months → Parameters ↓	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Avg.
PM ₁₀ ($\mu\text{g}/\text{m}^3$)	46.7	44.7	47.3	40.7	37.3	38.3	30.4	30.3	33.9	33.8	28.2	26.8	36.5
SO ₂ ($\mu\text{g}/\text{m}^3$)	2	2	2	2	2	2	2	2	2	2	2	2	2
NO ₂ ($\mu\text{g}/\text{m}^3$)	15.3	12.1	11.7	11.4	11.8	11.2	9.8	10.2	11.5	11.3	9.7	10.6	11.4

Permissible Limits: PM₁₀ ($\mu\text{g}/\text{m}^3$) – 60, SO₂ ($\mu\text{g}/\text{m}^3$) – 50, NO₂ ($\mu\text{g}/\text{m}^3$) – 40

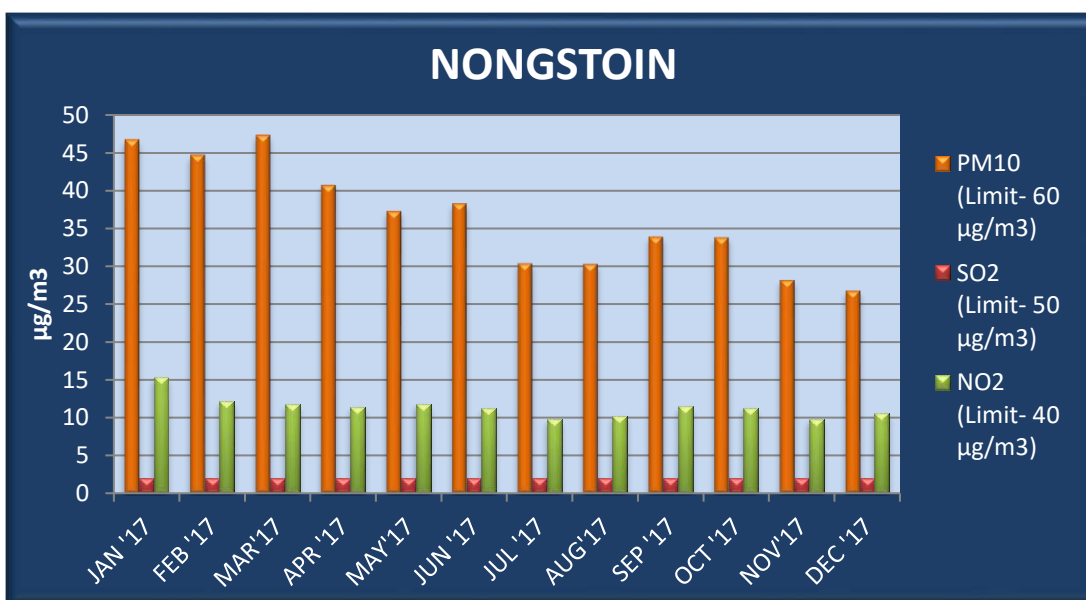


Fig 5.1.7: Monthly average of PM₁₀, SO₂, and NO₂ levels at Nongstoin, West Khasi Hills District

5.1.8: Umiam Industrial Estate, Umiam, Ri Bhoi District. (Stn – VIII):

Ambient air quality monitoring data during 2017 monitored at Umiam Industrial Estate, Ri-Bhoi District, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), and Nitrogen Dioxide (NO₂) were within the prescribed standards of National Ambient Air Quality standards. Particulate Matter (PM₁₀) levels were above the National Ambient Air Quality standards. The monitoring results during the period is shown in Table 5.1.8 and depicted in Figure 5.1.8.

Table 5.1.8: Ambient Air Quality data at Umiam Industrial Estate, Ri-Bhoi District, 2017.

Months → Parameters ↓	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Avg.
PM10 ($\mu\text{g}/\text{m}^3$)	121.7	123.6	124.2	121.7	107.7	104.1	104.8	96	98.1	113.5	106.9	96.3	109.8
SO ₂ ($\mu\text{g}/\text{m}^3$)	2	2	2	2	2	2	2	2	2	2	2	2	2
NO ₂ ($\mu\text{g}/\text{m}^3$)	15.3	15.7	15	15.2	14.6	14.1	14	12.9	13	14.6	13.8	13.8	14.3

Permissible Limits: PM10 ($\mu\text{g}/\text{m}^3$) – 60, SO₂ ($\mu\text{g}/\text{m}^3$) – 50, NO₂ ($\mu\text{g}/\text{m}^3$) - 40

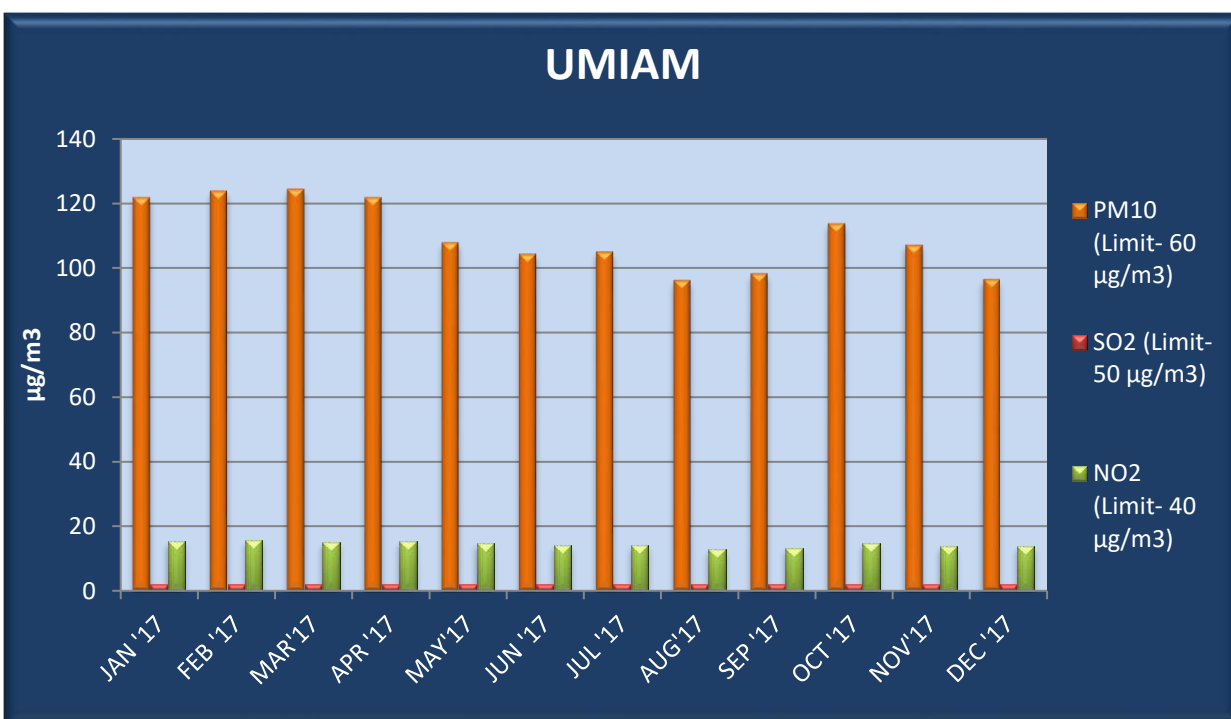


Fig. 5.1.8: Monthly average of PM10, SO₂, and NO₂ levels at Umiam Industrial Estate, Ri-Bhoi District

5.1.9: Forest Rest House, Polo Hills, Shillong, (Stn – IX):

Ambient air quality monitoring data during 2017 monitored at Forest Rest House, Polo Hills, Shillong, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂) & Particulate Matter (PM₁₀) were within the prescribed standards of National Ambient Air Quality standards. The monitoring results during the period is shown in Table 5.1.9 and depicted in Figure 5.1.9.

Table 5.1.9: Ambient Air Quality data at Forest Rest House, Polo Hills, Shillong, 2017

Months → Parameters ↓	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Avg.
PM10 (µg/m ³)	42.9	35.4	40.4	34.3	55.6	37.7	32.3	31.7	29.5	29.9	37.3	42.9	37.4
SO ₂ (µg/m ³)	2	2	2	2	2	5.1	2	2	2	2	2	2	2
NO ₂ (µg/m ³)	4.5	4.5	4.5	10.3	15.9	11.1	14.9	12.1	12.2	13	12.9	12.4	10.6

Permissible Limits: PM10 (µg/m³) – 60, SO₂ (µg/m³) – 50, NO₂ (µg/m³) – 40

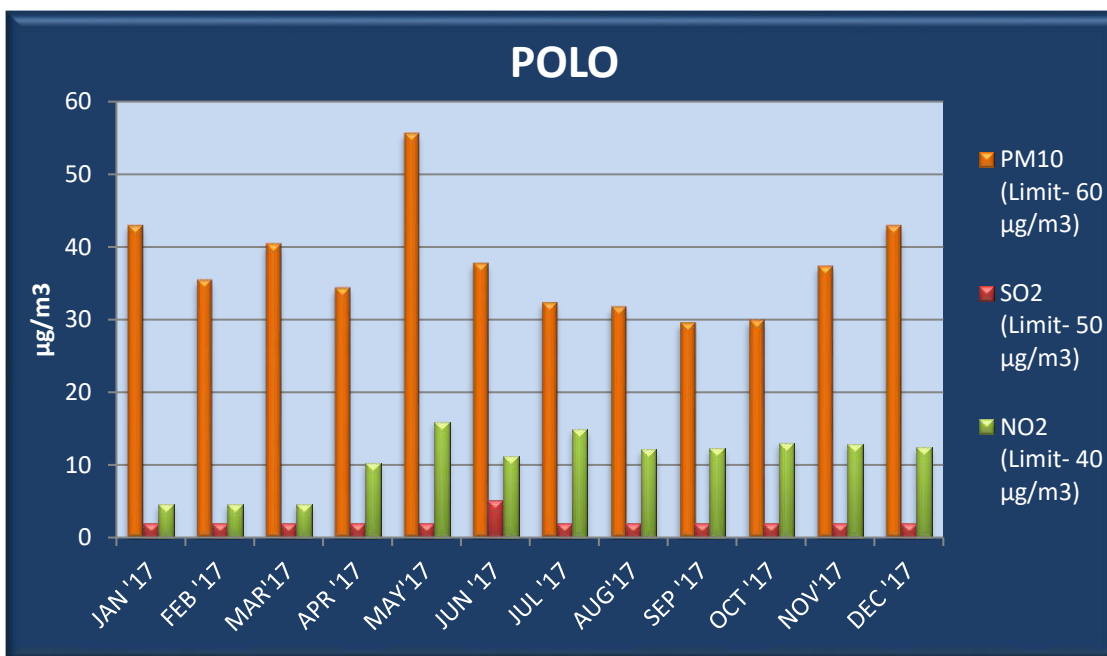


Fig.5.1.9: Monthly average of PM10, SO₂, and NO₂ levels at Forest Rest House, Polo Hills, Shillong.

5.1.10: Myllem Range Office, Social Forestry, 4 ½ Mile, Upper Shillong, (Stn – X):

Ambient air quality monitoring data during 2017 monitored at Myllem Range Office, Social Forestry, 4 ½ Mile, Upper Shillong, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂) & Particulate Matter (PM₁₀) were within the prescribed standards of National Ambient Air Quality standards. The monitoring results during the period is shown in Table 5.1.10 and depicted in Figure 5.1.10.

Table 5.1.10: Ambient Air Quality data at Myllem Range Office, Social Forestry, 4 ½ Mile, Upper Shillong, 2017.

Months → Parameters ↓	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Avg.
PM10 (µg/m ³)	39.2	40	45.2	42.7	41.5	30.8	26	32.7	31.6	30.2	40.4	42.7	36.9
SO ₂ (µg/m ³)	2	2	2	2	2	2	2	2	2	2	2	2	2
NO ₂ (µg/m ³)	4.5	4.5	11.6	10.1	14	4.5	4.5	10.5	10.1	10.7	10.3	12.5	4.5

Permissible Limits: PM10 (µg/m³) – 60, SO₂ (µg/m³) – 50, NO₂ (µg/m³) – 40

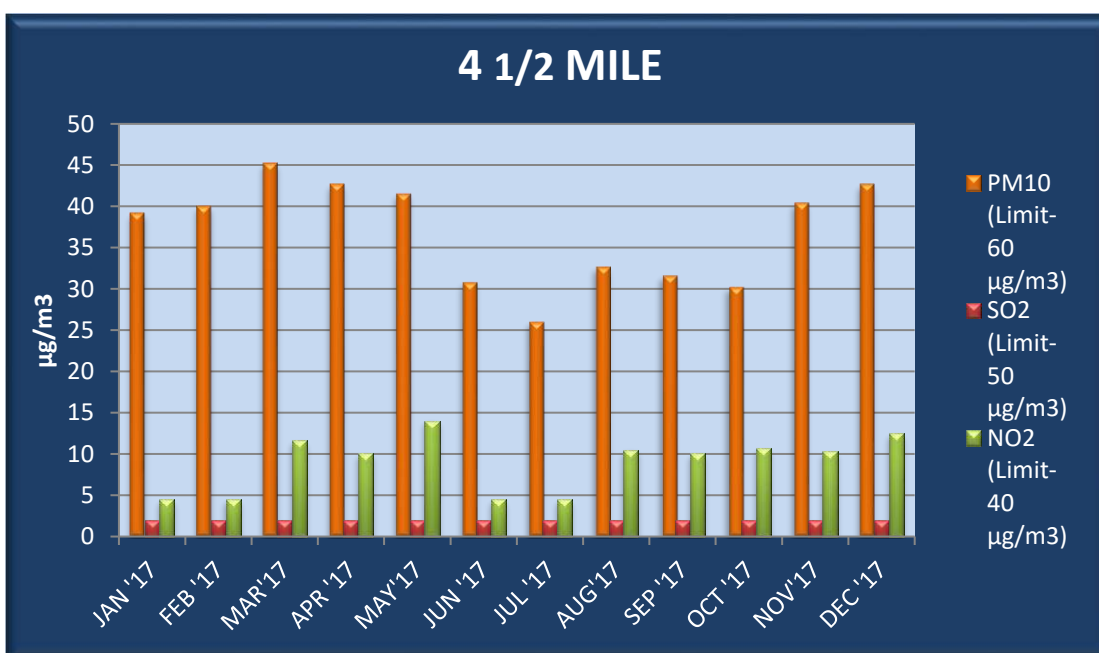


Fig.5.1.10: Monthly average of PM10, SO₂, and NO₂ levels at Myllem Range Office, Social Forestry, 4½ Mile, Upper Shillong.

5.2.0: AMBIENT AIR QUALITY AND SOURCE EMISSION MONITORING

The Board carried out Ambient Air quality (Table 5.2.0) and Source emission monitoring (Table 5.2.01) in residential areas and industrial units operating in the State during 2017-2018. The following results were obtained during the monitoring: -

Table 5.2.0: Ambient Air Quality data during 2017-2018

Sl. No	Name of Industry/ Location	Sampling Station	Date of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Remarks
1.	Bye Lane Mawiong	Residence of Smti.W.Jitem	16.05.17	79.6	3.5	15.1	W
2.	Mawlai Petrol Pump	Premises of o/o Stanley Roy Construction	16.05.17	129.1	4.9	37.7	A
3.	Pdengshnong, Mawdatbaki	Residence of Smti.M. Massar	16.05.17	48.7	1.7	12.6	W
4.	Lafarge Umiam Mining Pvt.Ltd,Nongtraï	Shella Bazar	4.10.17	35.8	1.3	10.2	W
		Pyrkan	4.10.17	23.9	0.85	7.3	W
		Phlangkaruh	4.10.17	28.6	0.96	7.5	W
		HEMM Workshop (Light Section)	4.10.17	59.0	1.5	10.5	W
		Near Magazine	4.10.17	31.2	2.0	9.10	W
5.	MSPCB,Pre-Diwali	Board's Premises	12.10.17	25.3	1.3	8.4	W
		MLA.Premises Police Bazar	12.10.17	55.3	1.8	21.7	W
		Ganesh Das Hospital, Lawmali	12.10.17	22.0	3.3	10.5	W
6.	MSPCB, Diwali Day	Board's Premises	19.10.17	29.0	1.9	8.6	W
		MLA.Premises Police Bazar	19.10.17	67.4	2.8	23.5	W
		Ganesh Das Hospital, Lawmali	19.10.17	38.4	4.5	13.7	W
7.	Laitumkhras Assamese Sec.School, Laitumkhras	Near Nursery Classroom	7.11.17	24.9	1.9	12.2	W
8.	Laitumkhras Bengali Sec.School, Laitumkhras	Near KG-1 Classroom	7.11.17	67.4	1.6	12.4	W
				PM2.5			W
				2.7			W
9.	Seng Khasi H.Sec.School, Jowai	Near Nursery Classroom	8.11.17	90.9	1.7	10.3	W
				PM2.5			W
				2.9			W
10.	Shillong ITI (General),Rynjah	Near Motor Vehicle Workshop	13.11.17	41.1	2.4	11.9	W
				PM2.5			W
				3.1			W
11.	Shillong ITI (Women),Rynjah	Near Main Entrance	13.11.17	40.9	1.8	9.2	W
12.	Ananth Ashram Sec.School	Near ADB Building (Labourer's room)	14.11.17	46.0	2.1	11.6	W
				PM2.5			W
				4.3			W

13.	Garo Union Sec.School, Shillong	Basketball Court	14.11.17	50.6	2.1	10.2	W
14.	Madan Laban Nepali Sec.School, Laban	Near Mandir	15.11.17	33.0	2.1	11.2	W
15.	Basic Training Centre,Malki	Near School,Malki	15.11.17	30.1	1.3	9.3	W
				PM2.5			W
				1.8			W
16.	Synod H.S.School, Mission, Mawkhlar	Main Entrance	16.11.17	32.0	1.7	11.8	W
				PM2.5			W
				17.2			W
17.	KJP H.S.School,Mawkhlar	Girls Hostel	16.11.17	34.4	1.3	9.4	W
18.	M/S Amrit Cement Ltd, Mynkre	Residential Colony	20.11.17	48.6	9.2	14.4	W
		MRSS	20.11.17	136.9	14.1	18.1	A
		Near Primary Crusher	20.11.17	127.5	14.6	18.6	A
19.	M/S Meghalaya Cements Ltd,Thangskai	CCR	5.12.17	228.5	4.2	14.6	A
		Staff Quarter, B-Block	5.12.17	24.7	2.1	9.8	W
20.	Tirot Sing Memorial School,Mawkdoh	Near Class X	9.01.18	15.3	1.6	6.7	W
21.	Padu Sec. School,WJHD	Near Main Gate	9.01.18	25.0	2.0	9.1	W
				PM2.5			W
				9.8			W
22.	Village Dorbar Sec.School, Swer	Near School Office	10.01.18	18.6	1.3	5.0	W
				PM2.5			W
				11.6			W
23.	Lai Shnong H.Sec School,Nongbareh	Near Water Tank	11.01.18	18.7	2.0	8.4	W
				PM2.5			W
				9.7			W
24.	Aradonga Sec School	Near Class VIII	11.01.18	38.8	--	--	W
				PM2.5			W
				13.2			W
25.	Mawryngkneng H.Sec. School Mawryngkneng	Near School Office	15.01.18	20.3	1.8	9.9	W
				PM2.5			W
				11.9			W
26.	Seinraj Sec School,Jowai	Near Old School Building	16.01.18	22.3	2.4	9.5	W
				PM2.5			W
				9.9			W
27.	Kynshi H.Sec School, Kynshi	Near Class I	16.01.18	28.3	--	--	W
				PM2.5			W
				11.7			W

28.	Nongkrem H.Sec School, Nongkrem	Near Water Pump House	16.01.18	17.3	1.7	8.1	W
				PM2.5			W
				11.5			W
29.	Jowai Presbyterian School,Jowai	Near PCI Office	17.01.18	23.0	2.8	11.6	W
				PM2.5			W
				10.1			W
30.	Pariong Presbyterian Sec School	Near School Playground	17.01.18	20.2	--	--	W
				PM2.5			W
				13.2			W
31.	Smit H.Sec.School,Smit	Near ADB Building	17.01.18	20.2	--	--	W
				PM2.5			W
				11.6			W
32.	Riwar Mihngi Presbyterian Sec School, Mawkynrew	Near Class VI	18.01.18	14.5	0.9	6.7	W
				PM2.5			W
				11.2			W
33.	Mukhla Riaj Sec School,Jowai	Near Old School Building	18.01.18	20.6	2.1	7.9	W
				PM2.5			W
				9.8			W
34.	Sanmer Sec School,5 th Mile,Shillong	Near Water Tank	22.01.18	32.4	--	--	W
				PM2.5			W
				11.9			W
35.	ITI,Jowai	Near Old Building	22.01.18	20.3	--	--	W
				PM2.5			W
				10.4			W
36.	Lyngngam Presbyterian Sec School,Mawthynkut	Near Class X	22.01.18	26.7	--	--	W
				PM2.5			W
				14.3			W
37.	Pomlum H.Sec School,Banium	Near ADB Building	24.01.18	32.9	--	--	W
				PM2.5			W
				11.2			W
38.	Rev.J.J.M. Sec School	Near Staff room	24.01.18	23.0	--	--	W
				PM2.5			W
				14.4			W
39.	Iooksi, Presbyterian Sec School	Near Old Building	24.01.18	19.1	--	--	W
				PM2.5			W
				8.2			W
40.	Nongkwar Sec School Nongkwar	Basketball court	29.01.18	29.1	--	--	W
				PM2.5			W
				12.4			W
41.	Ramakrishna Mission Sec School,Nartiang, WJHD	Near Football field	29.01.18	21.6	--	--	W
				PM2.5			W
				9.7			W

42.	Bynther Sec School, Bynther,WJHD	Basketball court	29.01.18	27.6	--	--	W
				PM2.5			W
				16.7			W
43.	Pynthorumkhrah Sec School, Pynthorumkhrah	Near Class XI	30.01.18	26.6	--	--	W
				PM2.5			W
				13.4			W
44.	Nartiang Presbyterian H. Sec School, Mookyrdup.	Near PCI Church	30.1.18	20.3	--	--	W
			30.1.18	PM2.5		W	
				9.8		W	
45.	Presbyterian Sec School,Shangpung	Near Basketball court	5.02.18	24.6	--	--	W
			5.02.18	PM2.5		W	
				10.0		W	
46.	Lummuroo Sec School	Near Old Building	6.02.18	21.5	--	--	W
			6.02.18	PM2.5		W	
				9.7		W	
47.	Horrirai Syiemlich H.Sec.School, Rangthong	Near Staff room	6.02.18	25.3	--	--	W
			6.02.18	PM2.5		W	
				11.2		W	
48.	Hynriewshnong H.Sec.School, Sngimawlein	School Playground	7.02.18	31.1	--	--	W
				PM2.5			W
					12.0		W
49.	12-NOR Sec.School, Shangpung	12-NOR Sec.School Campus	7.02.18	20.7	--	--	W
				PM2.5			W
					9.3		W
50.	Langkyrding Mihngi, Shillong	Residence of Shri N.S.Lyngdoh	8.02.18	71.2	3.0	18.7	W
51.	M.C.C.L.,Sohra	Near Canteen (Mines)	13.02.18	78.1	2.1	10.9	W
		Near Weighbridge	13.02.18	83.5	1.1	9.2	W
		Quarry	13.02.18	88.1	1.0	8.1	W
52.	SIPMIU, Shillong.	Near Compost Plant	13.02.18	78.8	4.5	17.3	W
		Near Sanitary Landfill	13.02.18	85.1	3.3	13.8	W
53.	Star Cement Ltd,Lumshnong	Near Guest House	7.03.18	124.6	12.4	20.4	A
		Pump House	7.03.18	146	11.3	13.5	A

W - Within Permissible Limits

A - Above Permissible Limits

Table 5.2.01: Source Emission monitoring data during 2017-2018.

Sl. No	Name of Sampling location	Date of Sampling	Type of Stack	Parameters tested	Observed value (mg/Nm ³)	Remarks
1.	M/S Amrit Cements Ltd., Mynkre.	20.11.17	Coal Mill	PM	18.5	W
		20.11.17	RABH	PM	66.4	A
2.	M/S Meghalaya Cements Ltd., Thangskai.	05.12.17	RABH	PM	16.3	W
		05.12.17	ESP	PM	16.1	W
		05.12.17	Coal Mill	PM	16.3	W
		05.12.17	Cement Mill	PM	18.6	W
3.	M/S Star Cement Ltd., Lumshnong.	7.03.18	Coal Mill	PM	17.3	W
		7.03.18	ESP	PM	12.5	W
		8.03.18	RABH	PM	12.8	W
		8.03.18	Cement Mill	PM	20.1	W

ASSESSMENT OF VEHICULAR POLLUTION

The Board has an Auto-emission-testing centre in its office premises at Lumpyngngad, Shillong which has been functioning since January 1994. The centre caters to the exhaust testing needs for the commercial and private light petrol and diesel driven vehicles only.

As per arrangement with the Office of the Commissioner of Transport, Meghalaya, the periodical renewals of permits of taxis are subject to submission of “Green Certificates” issued from the Office of the Board. The number of vehicles tested during the period from 01.04.17 to 31.03.18 is as stated below:-

PERIOD	TYPE OF VEHICLES	TOTAL NO. OF VEHICLES TESTED	PERCENTAGE OF VEHICLES COMPLYING TO EMISSION STANDARDS	PERCENTAGE OF VEHICLES NON-COMPLYING TO EMISSION STANDARDS
01.04.2017 to 31.03.2018	Petrol-Driven LMV	10312	99.4 %	0.6 %
	Diesel-Driven LMV	2371	98.5 %	1.5 %

CHAPTER – VI

WATER QUALITY MONITORING

6.1.0 MONITORING OF WATER QUALITY

Meghalaya is one of the most beautiful hill state situated in the North Eastern India. The State is endowed generously by nature as far as water resources are concerned. A number of perennial rivers, lakes and waterfalls grace this land on eternal charm and beauty. There are several rivers and streams, which have comparatively smaller stretch but are quite important due to their uses of water as most of them are exploited for drinking water, irrigation, industries, waste disposal etc.

Since last few decades or so the State has started facing serious problems of surface and groundwater pollution due to indiscriminate discharge of untreated municipal effluents, industries, agricultural runoff, open defecation and dumping of solid wastes on the river banks also contributed to water pollution. Unorganized mining activities mainly of coal on a large scale in almost all the parts of the State was another major source of water pollution.

In order to obtain information regarding the overall health and general environmental state of the rivers and ground water resources of the State, the Meghalaya State Pollution Control Board was monitoring the water quality of the selected water bodies in the State under National Water Monitoring Programme (NWMP) on regular basis. The monitoring covers 20 rivers/streams, 4 lakes and 7 spring/well. A total of 54 sampling locations (47 nos. of surface water and 7 nos. of ground water) were monitored. The monitoring of the water quality was one of the purpose of prevention and control of water pollution and maintaining or restoring the wholesomeness of water as indicated in the Water (Prevention and Control of Pollution) Act 1974. The monitoring was done on monthly basis for surface and on half yearly basis for ground water. The regular parameters analyzed included pH, Conductivity, Turbidity, Total Suspended Solids, Total Dissolved Solids, Nitrite Nitrogen, Nitrate Nitrogen (NO₃), Ammonia Nitrogen, Kjeldahl Nitrogen, Sulphate, Chloride, Hardness, Calcium, Magnesium, Sodium, Potassium, Total Phosphate Acidity, Alkalinity, Flouride, Dissolved Oxygen, Bio-Chemical Oxygen Demand, Chemical Oxygen Demand, Total Coliform, Fecal Coliform. The metals viz. Iron, Zinc, Manganese, Copper, Lead, Cadmium, Chromium and Nickel were analyzed once a year in the month of April. The detail of the monitoring stations with regard to location is as mentioned in the Table-6.1.0.

Table 6.1.0: Monitoring of Surface Water Quality in Meghalaya

District	Name of Water Bodies	Locations of Sampling Station	Monitoring Frequency
Ri-Bhoi	Umiam Lake	Outfall of Umiam River into lake Near United Christian College Exit point Middle point	Monthly
	Umtrew River	Umran Byrnihat	Monthly
East Khasi Hills	Umkhen River	WahKdait Ksehpongden Diengpasoh	Monthly
	Umkhrah River	Demthring, Shillong Umkaliar, Shillong Mawlai, Slaughter Mawpdang,	Monthly
	Umshyrpi River	Risa Colony Law College, Dhanketi Umshyrpi, Bridge	Monthly
	Umiam Mawphlang River	Nongkrem Umtyngngar Mawphlang Shella	Monthly
	Ward's Lake	Shillong	Monthly
	Umngot River	Smit Dawki	Monthly

West Khasi Hills	Nonbah River	Nongstoin, Market Phodsohsat Sohiong	Monthly
	Kynshi River	Nongkhnum Ranikor	Monthly
	Rilang River	Mawkyrwat	Monthly
	WahBlei	Riangdo Shdaddkhar	Monthly
Jaintia Hills	Lukha River	Lunar at Myndihati (Tributary of Lukha) Sunapur	Monthly
	Myntang River	Mynso Nartiang	Monthly
	Myntdu River	Jowai Leshka	Monthly
	Thadlaskein Lake	Mukhla	Monthly
	Kyrhukhla River	Khliehriat	Monthly
East Garo Hills	Damring River (Krishnei)	Resubelpara	Monthly
	Manda (Dudhnai) River	Jampa Wagaisi	Monthly
	Tasek Lake	Songsak (Naphak)	Monthly
	Simsang River	Williamnagar	Monthly
South Garo Hills	Bugi River	Mibanpara Dalu	Monthly
West Garo Hills	Ganol River	Tura	Monthly

GROUND WATER			
East Khasi Hills	Police Bazar Spring	Shillong	Half yearly
	Mawpdang Spring	Shillong	Half yearly
	Wah U Dkhar Spring	Sohra	Half yearly
Jaintia Hills	Umsahep Spring	Shangpung	Half yearly
Ri-Bhoi	Narbong Well	Byrnihat	Half yearly
South West Khasi Hills	Mawthadrishan Well	Markasa	Half yearly
	Jakrem Hot Spring	Jakrem	Half yearly

1. 6.1.1: Water Quality of the Sampling Stations in the Districts of Meghalaya

a) WATER QUALITY OF RIVERS IN EAST KHASI HILLS

17 (Seventeen) sampling stations were located in East Khasi Hills. In all the monitored locations the pH was observed to be in the normal range of 6.5 to 8.5. The dissolved Oxygen was found to be very low in Umkhrah and Umshyrpi Rivers with the minimum value Nil recorded at Umshyrpi River (Law College) and Umkhrah River (Demthring, near Slaughter house & Mawpdang during the dry winter months of February and March, whereas its concentration in other rivers was always above 4mg/l, which was the minimum oxygen requirement for propagation of wildlife fisheries etc. The Bio-chemical Oxygen Demand was observed to be above 3mg/l in Ward's lake, Umkhrah and Umshyrpi Rivers. The total coliform count was observed to be above 5000mpn/100ml in Umkhrah and Umshyrpi Rivers. The monitoring results indicated that organic and bacteria were the main pollutants in the water bodies. This was mainly due to direct discharge of waste water in an untreated form from the residential and commercial centres. The amount of waste received by the two rivers viz. Umkhrah and Umshyrpi Rivers was much beyond their assimilative capacity and thus had deteriorated the water quality to the extent that the water of these two Rivers cannot be put to any beneficial uses. The water quality of Ward's Lake, meets the criteria for propagation of wildlife and fisheries. The water quality of other water bodies is satisfactory.

b) WATER QUALITY OF RIVERS IN WEST KHASI HILLS

8 (Eight) sampling stations were located in West Khasi Hills. In all the monitored locations the pH was observed to be in the normal range of 6.5 to 8.5. The Dissolved Oxygen content in all monitored rivers was always above 4mg/l, which was the minimum oxygen requirement for propagation of wildlife fisheries etc. The Bio-chemical Oxygen Demand was observed to be above 3mg/l and Total Coliform count above 500mpn/100ml in Nanbah River at Nongstoin. Located in the centre of the District headquarter, this River was also subjected to pollution arising out of direct disposal of solid

and liquid waste from residential & commercial areas, automobile workshops and servicing centres etc. and agricultural runoff. However, the water of this River can be used for propagation of wildlife & fisheries and irrigation purposes. The water quality of other water bodies was satisfactory.

c) WATER QUALITY OF RIVERS IN RI-BHOI

6 (Six) sampling stations were located in Ri-Bhoi. In all the monitored locations the pH was observed to be in the normal range of 6.5 to 8.5. The dissolved Oxygen content in all the Stations was found to be above 4mg/l, which was the minimum oxygen requirement for propagation of wildlife fisheries etc. The Bio-chemical Oxygen Demand was observed to be above 3mg/l in Umiam Lake and Umtrew River at Byrnihat. The total Coliform count in these water bodies was also observed to be high. The Umiam Lake received the waste that was generated in the Shillong city through the two rivers viz. Umkhrah and Umshyrpi Rivers whereas the Umtrew River was subjected to pollution originating from the residential, commercial and industrial areas. The water of Umiam Lake and Umtrew river can be used for propagation of wildlife & fisheries, and irrigation purposes. The water quality of other water bodies was satisfactory.

d) WATER QUALITY OF RIVERS IN JAINTIA HILLS

8 (Eight) sampling stations were located in Jaintia Hills. The pH in (i) Myntdu River at Leshka (ii) Lunar River at Myndihati (iii) Kyrhukhla river at Lad-Rymbai was observed to be very low. Low pH indicates that water was acidic in nature which was mainly due to acid effluent from coal mines located on the catchment and in the upstream side the dissolved Oxygen in all monitored rivers were always above 4mg/l, which were the minimum oxygen requirement for propagation of wildlife fisheries etc. The Bio-chemical Oxygen Demand was observed to be above 3mg/l in Kyrhukhla River and Lunar River at Myndihati. The total coliform count was observed to be above 500mpn/100 ml in Myntdu River mainly due to contamination from the domestic waste water/sewage. Due to low pH, the water of i) Myntdu River at Leshka (ii) Lunar River at Myndihati (iii) Kyrhukhla river at Lad-Rymbai cannot be put to any beneficial uses. The water quality of other water bodies was relatively satisfactory

e) WATER QUALITY OF RIVERS IN GARO HILLS

8 (Eight) sampling stations were located in Garo Hills. In all the monitored locations the pH was observed to be in the normal range of 6.5 to 8.5. The dissolved Oxygen content in all the stations was found to be above 4mg/l, which was the minimum oxygen requirement for propagation of wildlife fisheries etc. The Bio-chemical Oxygen Demand was observed to be below 3mg/l in all the monitored water bodies. The total Coliform count was observed to be moderately high in Simsang & Ganol River. The water quality of all monitored water bodies was relatively satisfactory.

Table 6.1.1: Water Quality Data JAN-DEC 2017

District	Name of Rivers	Locations of sampling station	pH			Dissolved Oxygen (mg/l)			BOD (mg/l)			Faecal Coliform (MPN/100ml)			Total Coliform (MPN/100ml)		
			Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave
East Khasi Hills District	Umkhen River	Wah Kdait	7.0	7.2	7.0	6.2	7.5	6.8	1.6	2.6	2.0	8	32	19	40	94	57
		Kshepongden	6.8	7.6	7.2	5.9	8.5	7.1	1.2	2.5	1.7	6	35	19	39	79	59
		Diengpasoh	7.1	7.7	7.3	6.3	8.4	7.3	1.0	2.5	1.6	4	36	18	38	74	55
	Umkhrah River	Demthring Shillong	6.8	7.8	7.1	0	6.8	3.4	10.0	45.0	24.0	7000	33000	18107	22000	54000	35142
		Umkaliar, Shillong	7.2	7.6	7.3	3.0	6.6	5.2	9.0	28.0	16.5	3300	18000	10421	7900	54000	24300
		Mawlai, Slaughter	7.2	7.3	7.2	0	5.0	1.9	7.5	85.0	42.5	22000	48000	33714	54000	95000	71642
		Mawpdang,	6.8	7.5	7.2	0	5.0	2.1	18.5	80.0	41.7	14000	74000	40000	49000	123000	82857
	Umshyrpi River	Risa Colony	6.8	7.2	6.9	6.4	7.6	7.0	1.4	2.5	1.9	6	40	20	31	120	57
		Law College, Dhanketi	6.6	7.2	6.9	0	5.4	2.5	18.0	95.0	45.9	14000	39000	26000	33000	93000	57714
		Umshyrpi, Bridge	7	7.3	7.1	2.5	7.0	4.9	8.8	30.0	16.6	6000	25000	14092	14000	52000	29857
	Umiam Mawphlang River	Nongkrem	6.7	7.2	6.9	5.6	7.6	6.6	1.8	2.6	2.15	10	46	24	33	110	69
		Umyngngar	6.7	7.5	7.0	5.8	8.0	6.9	1.4	2.7	2.0	8	40	22	47	79	63
		Mawphlang	7.0	7.5	7.2	6.9	8.2	7.3	1.1	2.2	1.6	4	25	13	27	70	40
		Shella	7.4	8.0	7.6	7.0	7.8	7.4	1.0	1.7	1.4	9	39	20	35	94	62
	Ward's Lake	Shillong	6.9	7.6	7.3	6.0	8.6	7.3	2.5	8.0	4.9	610	2200	1317	2200	3500	2828
Umngot River	Smit	6.5	7.3	6.9	6.4	8.5	7.2	1.1	2.5	1.75	8	35	19	31	79	54	
	Dawki	6.8	7.5	7.1	7.0	8.0	7.4	1.0	1.7	1.2	6	38	18	25	79	54	
Ri-Bhoi District	Umiam Lake	Outfall of Umiam River into lake	6.8	8.4	7.25	3.5	6.6	4.6	4.2	11.0	7.4	1400	3600	2457	3300	5800	4478
		Near United Christian College	6.9	8.0	7.3	5.6	6.8	6.1	3.2	6.6	4.9	1100	2900	1942	2300	4900	3371
		Exit Point	6.9	8.4	7.4	5.0	6.8	6.1	3.8	6.5	4.9	1200	3200	2100	2600	5000	3757
		Middle Point	7.1	8.3	7.5	4.4	6.8	5.9	3.5	6.2	5.0	1100	3000	1950	2400	4800	3435
	Umtrew River	Umran	7.1	7.5	7.2	6.0	8.6	7.2	1.1	6.2	2.4	22	79	45	50	240	115
	Byrnihat	7	7.4	7.2	5.6	7.6	6.7	2.4	8.0	5.5	70	350	180	220	740	434	
West Khasi	Nonbah River	Nongstoin, Market	6.9	7.2	7.0	4.0	6.9	5.9	2.2	7.5	4.0	50	500	229	220	960	539
		Phod Sohsat	7.1	7.4	7.1	7.0	8.7	7.6	1.2	6.0	2.1	4	28	16	20	52	39



Hills District	Kynshi River	Sohiong	6.9	7.2	7.0	6.5	9	7.5	1	2	1.4	8	21	15	25	70	44
		Nongknum	6.9	7.5	7.2	7	9	7.8	1.0	1.8	1.3	4	27	14	22	79	49
		Ranikor	5.9	7.4	6.8	6.9	8.2	7.5	1.1	2.2	1.6	8	34	20	20	70	47
	Wah Blei	Riangdo	6.7	7.4	7.0	6.9	8.6	7.6	1.2	2.1	1.6	2	29	14	24	54	41
		Shdaddkhar	6.3	6.9	6.7	6.6	8.6	7.3	1.2	6.0	2.2	6	40	19	22	70	47
	Jaintia Hills District	Lukha River	Lunar at Myndihati (Tributary of Lukha)	2.8	4.4	3.1	3.9	7.6	6.0	3.2	6.0	3.9	1.8	15	7.1	2	50
Sunapur			6.7	7.6	7.2	6.3	8.1	7.1	1.7	2.2	1.9	13	190	67	94	350	174
Myntang River		Mynso	6.5	7.6	7.0	6.8	8.2	7.4	1.0	1.8	1.4	8	29	17	24	79	46
		Nartiang	6.7	7.3	7.1	6.9	8.6	7.4	1.2	1.7	1.5	9	47	24	31	120	62
Myntdu River		Jowai	6.7	7.3	6.9	5.6	7.0	6.4	2	5.2	3.1	27	2200	1040	59	3500	2022
		Leshka	5.0	6.5	5.7	5.8	8.4	7.1	1.3	2.2	1.7	2	90	23	19	58	34
Thadlaskein Lake		Mukhla	6.9	7.5	7.2	6.4	7.3	6.8	1.5	2.5	1.9	8	31	18	24	70	46
Kyrhukhla River	Khliehriat	2.7	3.7	3.2	4.2	7.9	6.1	3.2	5.8	4.1	4	19	11	17	31	23	
East Garo Hills District	Damring River (Krishnei)	Resubelpara	6.9	7.9	7.3	6.7	7.7	7.1	1.4	2.34	1.9	10	50	24	28	140	67
	Manda (Dudhnai) River	Jampa	7.2	8.3	7.6	6.6	7.3	6.9	1.5	2.1	1.8	12	41	23	33	110	65
		Wagaisi	7.4	8.0	7.6	6.9	8.0	7.3	1.0	1.6	1.3	8	36	21	30	130	65
	Tasek Lake	Songsak (Naphak)	6.7	7.5	7.1	6.5	7.6	6.8	1.5	2.44	2.0	6	38	20	10	79	46
Simsang River	Williamnagar	7.1	7.9	7.5	6.8	8.3	7.4	1.2	2.3	1.8	27	380	156	110	670	340	
South Garo Hills District	Bugi River	Mibanpara	7.3	7.9	7.5	6.8	7.6	7.2	1.4	2.2	1.8	10	60	29	30	123	72
		Dalu	7.4	8.0	7.6	6.9	7.5	7.1	1.4	2.4	1.8	8.1	45	23	24	110	59
West Garo Hills	Ganol River	Tura	7.1	8.0	7.5	6.9	8.1	7.4	1.0	2.3	1.6	39	320	132	210	590	367



6.1.2 Ground Water Quality

A total of 7 (Seven) ground water located all over the State was monitored. The water of all the monitored sources was used for different purposes. As per the monitoring results (Table 6.1.2), the sources were affected by bacterial contamination which was probably caused by percolation of polluted surface water. The concentration of Iron was recorded to be high at Narbong well which was probably due to the geology of the area. The pH level at hot spring Jakrem was recorded to be high which was probably due to increase solubility of salts in hot water. Flouride concentration was also recorded to be high at this hot spring which was the characteristic of any hot spring.

Table 6.1.2: Ground Water Quality in Meghalaya during 2017

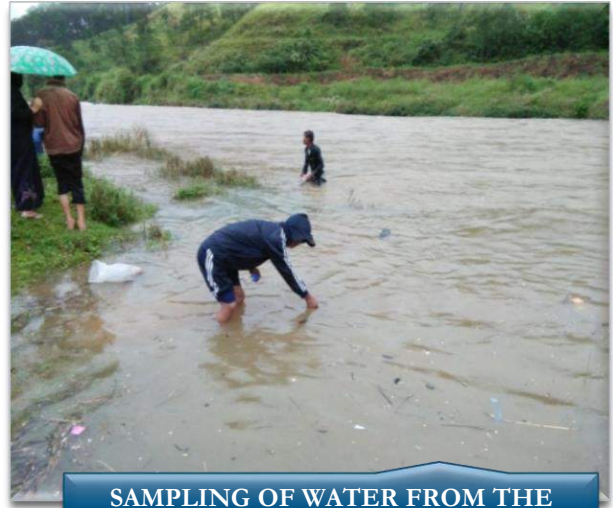
District	Name of Rivers	Locations	Year	pH	Conductivity (µS/cm)	Turbidity (NTU)	Flouride (mg/l)	Iron. (µg/L)	Total Coliform (MPN/100)
East Khasi Hills	Dreamland Spring	Police Bazar, Shillong	2017	5.9	303.5	3.2	0.065	120.0	37
	Mawpdang Spring	Shillong		6.2	300.5	4.0	0.065	240.0	40
	Wah-U-Dkhar	Sohra		6.0	113.5	1.4	0.055	140.0	20
West Khasi Hills	Mawthadrishan Well	Markasa		6.8	48.5	1.8	0.055	160.0	31
South West Khasi Hills	Jakrem, Hot Spring	Jakrem		9.5	342.5	3.0	24.9	240.0	18
Ri - Bhoi	Narbong Well	Byrnihat		6.2	113.5	3.4	0.045	420.0	160
Jaintia Hills	Umsahep Hot Spring	Shangpung		6.4	162	2.3	0.075	218.0	23

6.1.3 Water Quality Monitoring during Idol Immersion

The Meghalaya State Pollution Control Board, Shillong, conducted water quality monitoring before and after puja festival of three immersion ghats in the State viz. (i) Polo immersion site, Shillong, located along the River Umkhrah (ii) Babupara immersion site, Tura, located along the Babupara-Rongkhon River and (iii) SyntuKsiar (Lynterarchaka) immersion site, Jowai, located along the River Myntdu. The monitoring was conducted in order to assess the environmental impact due to such immersion.



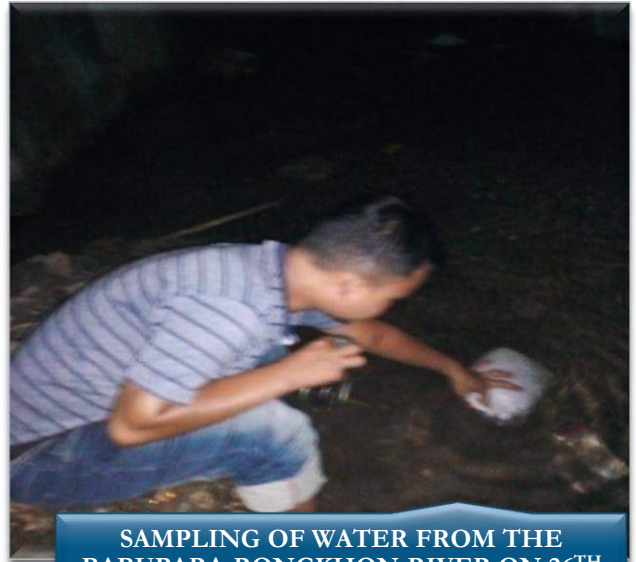
CROWDS THROUGH THE IMMERSION SITE AT POLO, SHILLONG ON IMMERSION DAY, 30TH SEPTEMBER 2017



SAMPLING OF WATER FROM THE MYNTDU RIVER AT SYNTU KSIAR JOWAI ON 30TH SEPTEMBER 2017



CROWDS THROUGH THE IMMERSION SITE AT BABUPARA, TURA ON IMMERSION DAY, 30TH SEPTEMBER 2017



SAMPLING OF WATER FROM THE BABUPARA-RONGKHON RIVER ON 26TH SEPTEMBER 2017

TABLE 1: WATER QUALITY DATA (POLO) OF RIVER WAH UMKHRAH DURING PRE-IMMERSSION, IMMERSION & POST-IMMERSION DAY, KALI PUJA FESTIVAL 2017

Sl. No.	Sampling Site →	Site I (100m Upstream of Immersion Ghat)			Site II (Site of Immersion Ghat)			Site III (100 m downstream of Immersion Ghat)		
		4 days before immersion	Immersion Day	4 days after immersion	4 days before immersion	Immersion Day	4 days after immersion	4 days before immersion	Immersion Day	4 days after immersion
	Date of Sampling	26.09.17	30.09.17	4.10.17	26.09.17	30.09.17	4.10.17	26.09.17	30.09.17	4.10.17
	Time	13:23	18:43	14:55	13:36	19:00	15:12	13:49	19:21	15:27
	Weather	Rainy	Rainy	Cloudy	Rainy	Rainy	Cloudy	Rainy	Rainy	Cloudy
	Colour	Light brown	Brown	Greenish brown	Light brown	Brown	Greenish brown	Light brown	Brown	Greenish brown
1.	Temperature (°C)	19.0	20.0	23.0	19.0	20.0	23.0	19.0	20.0	23.0
2.	pH	7.1	7.2	7.3	7.0	7.2	7.4	7.1	7.1	7.4
3.	Conductivity $\mu\text{S/cm}$	225.0	135.0	240.0	236.0	140.0	245.0	229.0	139.0	243
4.	Dissolved Oxygen mg/L	2.5	5.6	3.2	3.0	4.6	2.7	2.9	4.5	2.9
5.	BOD mg/L	10.2	8.5	12.5	11.5	9.2	15.0	16.0	9.5	15.1
6.	COD mg/L	24.0	6.0	24.0	20.0	4.0	22.0	30.0	4.0	20.0
7.	Calcium mg/L	56.0	28.0	60.0	60.0	30.0	66.0	60.0	32.0	60.0
8.	Magnesium mg/L	16.0	14.0	24	20.0	14.0	22.0	14.0	12.0	14.0
9.	Turbidity (NTU)	13.2	20.5	7.2	12.5	30.7	10.8	14.7	28.7	10.8
10.	Hardness mg/L	72.0	42.0	80.0	80.0	44.0	88.0	74.0	44.0	74.0
11.	Total Dissolved Solids mg/L	155.0	93.0	166.0	163.0	97.0	169.0	158.0	96.0	168.0
12.	Total Suspended Solids mg/L	10.0	20.0	10.0	15.0	35.0	10.0	10.0	30.0	10.0
13.	Chromium mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
14.	Copper mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
15.	Lead mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
16.	Zinc mg/L	0.05	0.01	0.08	0.01	0.02	0.12	0.01	0.01	0.09

TABLE 2: WATER QUALITY DATA OF RIVER MYNTDU (LYTER ARCHAKA) DURING PRE-IMMERSSION, IMMERSION & POST-IMMERSION DAY, KALI PUJA FESTIVAL 2017

Sl. No.	Sampling Site →	Site I (100m Upstream of Immersion Ghat)			Site II (Site of Immersion Ghat)			Site III (100 m downstream of Immersion Ghat)		
		4 days before immersion	Immersion Day	4 days after immersion	4 days before immersion	Immersion Day	4 days after immersion	4 days before immersion	Immersion Day	4 days after immersion
	Date of Sampling	26.09.17	30.09.17	4.10.17	26.09.17	30.09.17	4.10.17	26.09.17	30.09.17	4.10.17
	Time	13:08	15:12	14:20	13:17	15:26	14:37	13:28	15:39	14:53
	Weather	Cloudy	Rainy	Cloudy	Cloudy	Rainy	Cloudy	Cloudy	Rainy	Cloudy
	Colour	Slightly brown	Brown	Clear	Slightly brown	Brown	Clear	Slightly brown	Brown	Clear
1.	Temperature (°C)	20.0	22.0	21.0	20.0	22.0	21.0	20.0	22.0	21.0
2.	pH	7.2	7.2	7.6	7.2	7.2	7.6	7.1	7.3	7.5
3.	Conductivity $\mu\text{S/cm}$	36.0	33.0	35.0	33.0	30.0	33.0	32.0	32.0	32.0
4.	Dissolved Oxygen mg/L	7.2	6.7	7.2	7.0	7.0	7.4	7.0	6.7	7.1
5.	BOD mg/L	1.6	2.0	1.8	1.8	2.0	1.5	1.6	2.2	1.7
6.	COD mg/L	4.0	4.0	8.0	4.0	6.0	6.0	4.0	4.0	8.0
7.	Calcium mg/L	16.0	12.0	12.0	12.0	10.0	12.0	14.0	12.0	12.0
8.	Magnesium mg/L	8.0	8.0	7.0	6.0	8.0	6.0	6.0	6.0	6.0
9.	Turbidity (NTU)	7.5	28.3	5.5	6.7	17.8	7.0	5.9	27.8	6.2
10.	Hardness mg/L	24.0	20.0	19.0	18.0	18.0	18.0	20.0	18.0	18.0
11.	Total Dissolved Solids mg/L	25.0	23.0	24.0	23.0	21.0	23.0	22.0	22.0	22.0
12.	Total Suspended Solids mg/L	5.0	35.0	10.0	5.0	15.0	10.0	5.0	25.0	10.0
13.	Chromium mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
14.	Copper mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
15.	Lead mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
16.	Zinc mg/L	0.01	0.02	0.04	BDL	0.03	0.09	BDL	BDL	0.08



TABLE 3: WATER QUALITY DATA OF RIVER BABUPARA-RONGKHON DURING PRE-IMMERSSION, IMMERSION & POST-IMMERSION DAY, KALI PUJA FESTIVAL 2017

Sl. No.	Sampling Site →	Site I (100m Upstream of Immersion Ghat)			Site II (Site of Immersion Ghat)			Site III (100 m downstream of Immersion Ghat)		
		4 days before immersion	Immersion Day	4 days after immersion	4 days before immersion	Immersion Day	4 days after immersion	4 days before immersion	Immersion Day	4 days after immersion
	Date of Sampling	26.09.17	30.09.17	4.10.17	26.09.17	30.09.17	4.10.17	26.09.17	30.09.17	4.10.17
	Time	15:06	20:02	11:14	15:19	20:19	11:27	15:32	20:49	11:44
	Weather	Sunny	Rainy	Sunny	Sunny	Rainy	Sunny	Sunny	Rainy	Sunny
	Colour	Clear	Brownish	Clear	Clear	Brownish	Clear	Clear	Brownish	Clear
1.	Temperature (°C)	26.0	24.0	26.0	26.0	25.0	26.0	26.0	25.0	26.0
2.	pH	7.3	7.5	7.4	7.4	7.5	7.4	7.3	7.4	7.5
3.	Conductivity $\mu\text{S}/\text{cm}$	87.0	74.0	83.0	93.0	75.0	86.0	92.0	77.0	85.0
4.	Dissolved Oxygen mg/L	7.4	7.3	7.4	7.5	7.1	7.6	7.6	7.2	6.7
5.	BOD mg/L	1.8	2.0	1.6	1.8	1.9	1.4	1.9	2.0	2.0
6.	COD mg/L	4.0	4.0	4.0	5.0	6.0	4.0	4.0	4.0	5.0
7.	Calcium mg/L	22.0	20.0	20.0	24.0	20.0	24.0	20.0	22.0	20.0
8.	Magnesium mg/L	12.0	12.0	12.0	12.0	10.0	10.0	14.0	12.0	12.0
9.	Turbidity (NTU)	11.6	15.2	12.4	20.5	12.7	11.5	13.6	18.5	10.8
10.	Hardness mg/L	34.0	30.0	32.0	36.0	50.0	34.0	34.0	34.0	32.0
11.	Total Dissolved Solids mg/L	60.0	51.0	57.0	64.0	30.0	59.0	63.0	53.0	59.0
12.	Total Suspended Solids mg/L	15.0	15.0	15.0	25.0	15.0	15.0	15.0	15.0	15.0
13.	Chromium mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
14.	Copper mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
15.	Lead mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
16.	Zinc mg/L	0.06	0.04	0.05	0.07	0.03	BDL	0.05	0.05	0.03

The water quality characteristics (**Table 1, Table 2 & Table 3**) indicated that there was no deterioration of the water quality of the above mentioned rivers/streams as a result of the immersion of idols in these water bodies.

6.1.4 Water Quality Monitoring under Board's Programme

The Board had also carried out the monitoring of the water quality of other water bodies in the State which were used for different purposes and subjected to different types of pollution. Based on the monitoring, the following report was published by the Board.

a) A Report on The Water Quality of Kynshi River & Rilang River at Ranikor, South West Khasi Hills District –

The monitoring was carried during 23rd January 2018 along with the officials from the office of Superintendent of Fisheries Mawkyrwat, South West Khasi Hills District in response to the media report regarding the dying of fishes in Kynshi River Ranikor.

6.1.5 Industrial Monitoring:

The Meghalaya State Pollution Control Board also carried out the monitoring of effluent/waste water generated from the industrial units operating in the State. 29 (Twenty-nine) such samples were collected and analyzed during the year.

6.1.6 Monitoring of water bodies on account of NGT order

A total of 22 samples were collected and analyzed from the water bodies located in coal mining areas.

6.1.7 Analysis of water bodies received from Government Departments, Private Agencies and Public

In addition to the regular programme the Board was also engaged in analyzing water samples received from Government Departments, Private Agencies and Public. A total of 400 samples were analyzed during the year.

CHAPTER – VII

NOISE LEVEL MONITORING

7.1 AMBIENT NOISE LEVEL DURING DIWALI FESTIVAL, 2017

Noise level was measured before and on Diwali day i.e. on the 12th and 19th of October, 2017 at the residential, commercial and silence area in pursuance to the Government of India's Notification and the interim directions of the Hon'ble Supreme Court. Shillong, Meghalaya's capital was selected for conducting the ambient noise level survey during the festival period as it has a sizeable population celebrating the festival. The three locations selected were:

- (i) Lumpynggad (Location A –Board's premises), a residential area.
- (ii) Police Bazar (Location B - Meghalaya Legislative Assembly office's premises), a commercial area and
- (iii) Lawmali (Location C – Ganesh Das Hospital premises), a silence zone.

The result obtained is shown in Table 7.1 (A) to 7.1 (C)

Table 7.1 (A): Ambient Noise Level during Diwali Festival, 2017 at Lumpynggad, Shillong

Location: A- Board's Premises Lumpynggad (Residential Area)	Pre-Deepawali Day (12.10.2017)			Deepawali Day (19.10.2017)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration						
18:00 to 19:00 Hr.	50.3	79.4	64.1	54.7	82.7	65.6
19:00 to 20:00 Hr.	44.6	71.9	63.8	58.3	89.6	71.3
20:00 to 21:00 Hr.	40.2	60.3	58.2	60.1	91.3	72.6
21:00 to 22:00 Hr.	37.1	52.8	39.8	54.1	57.6	55.3
22:00 to 23:00 Hr.	37.2	54.7	38.2	52.6	58.6	54.7
23:00 to 24:00 Hr.	36.8	49.4	39.1	51.9	57.3	54.5

Table 7.1 (B): Ambient Noise Level during Diwali Festival, 2017 at Police Bazar, Shillong

Location: B-Meghalaya Legislative Assembly office's premises (Commercial Area)	Pre-Deepawali Day (12.10.2017)			Deepawali Day (19.10.2017)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration						
18:00 to 19:00 Hr.	60.1	87.5	68.5	61.2	89.6	70.0
19:00 to 20:00 Hr.	62.1	87.5	69.1	61.3	96.8	69.4
20:00 to 21:00 Hr.	61.0	87.2	69.2	61.5	104.2	76.4
21:00 to 22:00 Hr.	55.2	85.4	62.0	61.1	101.6	77.1
22:00 to 23:00 Hr.	54.2	82.5	62.7	61.6	104.8	79.4
23:00 to 24:00 Hr.	50.4	75.2	62.2	61.7	100.2	79.1

Table 7.1 (C): Ambient Noise Level during Diwali Festival, 2017 at Lawmali, Shillong

Location: C-Ganesh Das Hospital premises (Silence Zone)	Pre-Deepawali Day (12.10.2017)			Deepawali Day (19.10.2017)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration						
18:00 to 19:00 Hr.	42.2	69.1	51.5	61.2	93.7	73.8
19:00 to 20:00 Hr.	46.5	69.8	61.6	66.4	93.8	71.2
20:00 to 21:00 Hr.	52.6	78.7	59.3	58.6	98.3	76.2
21:00 to 22:00 Hr.	44.6	71.7	56.9	61.9	94.2	68.4
22:00 to 23:00 Hr.	59.0	79.0	62.9	58.6	89.4	61.3
23:00 to 24:00 Hr.	57.5	71.3	63.8	48.6	81.4	58.7

Observations and findings:

1. Location A – Lumpynggad (MSPCB's Office Premises)

It was observed from Table 7.1 (A) (Location A - Lumpynggad), that the monitored ambient noise level on the 12th of October, 2017 (i.e. pre-Deepawali day) from 18:00 Hrs. (6:00 pm) to 22:00 Hrs. (10:00 pm), was above the ambient noise level standard (for residential areas) of 55.0 dB(A) Leq for day time. This was due to very windy conditions on the particular day. It was also observed that the night time noise level from 22:00 Hrs. (10:00 pm) to 24:00 Hrs. (12:00 midnight) was well within the night time ambient noise level standard of 45.0 dB(A) Leq.

On the 19th of October, 2017 (i.e. Deepawali day), however, it was observed that there was an overall increased in the ambient noise level at the location where the average equivalent noise level (Leq) was found to be well above the ambient noise standard of 55.0 dB(A) Leq throughout the time duration

from 18:00 Hrs. (6:00 pm) to 22:00 Hrs. (10:00 pm), which falls in the day time slot. It was also during this duration that the highest Leq level of 72.6 dB(A) Leq was recorded and that during the time slot from 20:00 Hrs. (8:00 pm) to 21:00 Hrs.(9:00 pm). This level was above the day time residential standard of 55.0 dB(A) Leq by more than 17 dB. During the night time, the levels measured were above the standard of 45.0 dB(A) Leq on both hourly intervals i.e from 22:00 Hr. (10:00 pm) to 23:00 Hr. (11:00 pm) and 23:00 Hr. (11:00 pm) to 24:00 Hr. (12:00 midnight).

2. Location B - Police Bazar (Meghalaya Legislative Assembly Office's Premises)

It was observed from Table 7.1 (B) (Location B - Police Bazar) that the noise level on the 12th of October, 2017 (i.e. pre-Deepawali day), was above the standard limit of 65.0 dB (A) Leq for day time as well as 55.0 dB (A) Leq for night time. The higher level of sound monitored was mainly due to vehicular traffic including noise due to honking.

On the 19th of October, 2017 (i.e. Deepawali day), however, it was observed that there was an overall increase in the noise level at all time intervals during day as well as night time whereby the average equivalent noise level (Leq) was always beyond 69 dB. Here we saw that the maximum average equivalent noise level measured throughout the entire monitoring was 79.4 dB(A) Leq, monitored during the timing from 22:00 Hrs.(10:00 pm) to 23:00 Hrs.(11:00 pm), a level that was higher than the night time noise level standard by more than 14 dB.

3. Location C - Lawmali (Ganesh Das Hospital Premises)

It was observed from Table 7.1 (C) (Location C – Ganesh Das Hospital), that, during all monitored timings, the noise level on the 12th of October, 2017 (i.e. pre-Deepawali day), was above the day and night time national standard limits (for Silence Zones) of 50.0 dB (A) Leq and 40.0 dB(A) Leq respectively. The observed higher level of sound monitored during this time slot was mainly due to vehicular traffic and other activities within the hospital premises.

On the 19th of October, 2017 (i.e. Deepawali day), it was observed that the overall average equivalent noise level (Leq) was comparatively higher than that on the pre-Deepawali day. For all timings from 18:00 Hrs. (6:00 pm) up to 24:00 Hrs. (12:00 midnight), the monitored sound level was well above the mentioned standard limits during day as well as night time.

7.2 AMBIENT NOISE LEVEL DURING IDOL IMMERSION, 2017

The ambient noise level monitoring was conducted on the 30th of September, 2017, (day of immersion) at the respective immersion sites in Shillong, Tura and Jowai in order to monitor the level of noise during the occasion. The noise level was monitored for continuous 3 hours duration wherein Leq readings were recorded for every hourly interval. The levels recorded during the occasion at the respective immersion sites in Shillong, Tura and Jowai is given in **Table 7.2.1** to **Table 7.2.3** below.

Table 7.2.1: Ambient Noise Level during IDOL IMMERSION, 2017 in Shillong

Location A	River Umkhrah Immersion Site, Polo, Shillong	
Time duration	Leq dB(A)	Ambient Noise Level Standard (Day time) [Residential Area] Leq dB(A)
11:00 Hrs. to 12:00 Hrs.	77.6	55.0
12:00 Hrs. to 13:00 Hrs.	78.5	55.0
13:00 Hrs. to 14:00 Hrs.	79.6	55.0

The above table (**Table 7.2.1**) reveals that the ambient noise level at the immersion ghat along the river Umkhrah at Polo, Shillong was high.

The levels recorded at every hourly interval from the time duration of 11:00 Hrs. (11:00 am) to 14:00 Hrs. (2:00 pm) shows that the level exceeds the daytime Ambient Noise Standard of 55.0 dB(A) Leq (for a Residential area) during every hourly monitored time interval.

The noise, as observed on the above day and duration of monitoring was due to various kinds of festival activities during the immersion process.

Table 7.2.2: Ambient Noise Level during IDOL IMMERSION, 2017 in Tura

Location B	River Babupara-Rongkhon Immersion Site, Babupara, Tura	
Time duration	Leq dB(A)	Ambient Noise Level Standard (Day time) [Residential Area] Leq dB(A)
12:00 Hrs. to 13:00 Hrs.	73.9	55.0
13:00 Hrs. to 14:00 Hrs.	74.6	55.0
16:00 Hrs. to 17:00 Hrs.	75.3	55.0

The **Table 7.2.2** revealed that the ambient noise level at the immersion ghat along the river Babupara-Rongkhon at Babupara, was high.

The hourly recorded noise levels shows that the level obtained exceeds the daytime Ambient Noise Standard of 55.0 dB(A) Leq (for a Residential area) during the monitored time intervals.

It was also observed that the highest level of 75.3 Leq dB(A) recorded from 16:00 Hrs.(4:00 pm) to 17:00 Hrs. (5:00 pm) exceeds the same standard by more than 20 decibels.

The noise, as observed during monitoring, was due to festive activities during the immersion process.

Table 7.2.3: Ambient Noise Level during IDOL IMMERSION, 2017 in Jowai

Location: C	River Myntdu Immersion Site, SyntuKsiar, Jowai	
Time duration	Leq dB(A)	Ambient Noise Level Standard(Day time) [Residential Area]Leq dB(A)
14:30 Hrs. to 15:30 Hrs.	61.9	55.0
15:30 Hrs. to 16:30 Hrs.	60.7	55.0
16:30 Hrs. to 17:30 Hrs.	58.9	55.0

The above table, **Table 7.2.3** revealed that the ambient noise level at the immersion ghat along the river Myntdu at Lynter Archaka, Syntu Ksiar, Jowai, slightly exceed the daytime Ambient Noise Standard of 55.0 dB(A) Leq (for a Residential area) and comparative lower to that obtained at Shillong and Tura.



Photo 1. Crowds throng the Immersion site at Polo, Shillong on Immersion day



Photo 2. Immersion in progress at the Immersion Ghat at Polo, Shillong

CHAPTER – VIII

ENVIRONMENTAL AWARENESS

8.1.0 World Environment Day 2017:

On account of World Environment Day 2017, the Meghalaya State Pollution Control Board had carried out Ambient Air Quality monitoring on the 16th & 17th May 2017 in selected localities of Mawlai, East Khasi Hills District, to assess the ambient air quality in areas around Mawlai, Shillong, as part of celebration of World Environment Day 2017 organised by the Khasi Students' Union, Mawlai Circle. Ambient air quality monitoring was performed as per methods prescribed by CPCB. The parameters selected for the purpose of monitoring the ambient air quality were, Particulate Matter or PM₁₀, Sulphur dioxide (SO₂), and Nitrogen dioxide (NO₂). Monitoring was carried out for 24 hours (4 hourly sampling for gaseous pollutants & 8 hourly sampling for particulate matter). The monitoring of meteorological parameters such as wind speed and direction, relative humidity and temperature was also integrated with the monitoring of the air quality.

The selected sampling locations covering some of the localities in Mawlai are as follows:

1. Bye Lane, Mawiong, NH-40, Shillong.
2. Mawlai Petrol Pump, NH-40, Shillong.
3. Pdengshnong, Mawdatbaki, Mawlai, Shillong.
4. Marten, Mawiong.

Observations and Findings:

1. Bye Lane, Mawiong, NH-40, Shillong:

The terrace in the building of Smti. W. Jitem, Mawiong, located 10m (approx.) from the NH 40 was selected for sampling.

The average 24 hours concentration of Particulate Matter (PM₁₀), Sulphur Dioxide (SO₂), Nitrogen dioxide (NO₂) was observed to be within the National Ambient Air Quality Standards (Table 1.0). The maximum and minimum temperature recorded was 28.7°C and 21.0°C respectively. The maximum and minimum relative humidity recorded was 72% and 51% respectively. The most prevailing wind direction observed was NE-SW and the 24 hours average wind speed was 1.8 km/hr.



Ambient Air quality monitoring in Mawiong

2. Mawlai Petrol Pump, NH 40, Shillong:

The premises in the office of M/S Stanley Roy Construction located in the busy junction in Mawlai Petrol pump which was 5m (approx.) from the busy NH-40 was selected for sampling.

The average 24 hours concentration of Particulate Matter (PM₁₀) recorded was 129.1 ($\mu\text{g}/\text{m}^3$) which was above the prescribed limits as per the National Ambient Air Quality Standards (Table 1.0).



High PM₁₀ concentrations at this location may be attributed to dust arising from movement of vehicles, as the station was in close proximity to the NH-40, and the natural windblown dust. Sulphur Dioxide (SO₂), Nitrogen dioxide (NO₂) was observed to be within the National Ambient Air Quality Standards (Table 1.0). The maximum and minimum temperature recorded was 28.1°C and 21.0°C respectively. The maximum and minimum relative humidity recorded

was 72% and 52% respectively. The most prevailing wind direction observed was NE-SW and the 24 hours average wind speed was 2.1 km/hr.

3. Pdengshnong, Mawdatbaki, Mawlai, Shillong:

The premises in the residence of Smti. M. Massar, Pdengshnong, located 3m (approx.) from the internal main road was selected for sampling. The location was categorized as a residential area.



The average 24 hours concentration of Particulate Matter (PM₁₀), Sulphur Dioxide (SO₂), Nitrogen dioxide (NO₂) was observed to be within the National Ambient Air Quality Standards (Table 1.0). The maximum and minimum temperature recorded was 28.1°C and 20.9°C respectively. The maximum and minimum relative humidity recorded was 71% and 52% respectively. The most prevailing wind direction observed was NE-SW and the 24 hours average wind speed was 1.9 km/hr.

4. Marten, Mawiong:

Marten in Mawiong is a solid waste dumping site of the Shillong Municipal Board. The Board has carried out ambient air quality monitoring during January 2017 at 2(two) locations within the Dumping site.

The average 24 hours concentration of Particulate Matter (PM₁₀), Sulphur Dioxide (SO₂), Nitrogen dioxide (NO₂) at the 2(two) locations was observed to be within the National Ambient Air Quality Standards (Table 4.0).

Table 4.0: Ambient air quality monitored at Mawlai area.

Location	Sampling Location	Parameters (24 hours average)			Permissible Limits (24 hours average)	
		PM10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	Pollutants	Concentrations ($\mu\text{g}/\text{m}^3$)
Mawiong	Terrace of the Residence of Smt. W. Jitem	79.6	2.0	15.1	PM10	100
					SO ₂	80
					NO ₂	80
Mawlai Petrol pump	Premises of O/o M/s Stanley Roy Construction	129.1	4.9	37.7	Permissible limits of National Ambient Air Quality Standards as per EPA Notification GSR 826(E), dated 16 th Nov. 2009.	
Pdengshnong, Mawdatbaki	Premises of Residence of Smt. M. Massar	48.7	2.0	12.6		
Marten, Mawiong	Near Garage	73.4	2.0	19.3		
	Near Dumping site	71.9	2.0	24.5		

Conclusion:

The findings on the assessment of air quality in selected localities of Mawlai area conducted by the Board revealed that the concentrations of PM₁₀, Sulphur Dioxide (SO₂), Nitrogen dioxide (NO₂) were found to be within the prescribed standards in all the sampling locations except the location in Mawlai Petrol Pump where the concentration of PM₁₀ was found to be above the prescribed limits of NAAQS. The high concentration of PM₁₀ in Mawlai Petrol Pump may perhaps be due to the exhaust emission from vehicles, dust arising from movement of vehicles, the natural windblown dust, and suspension of natural dust, as the sampling location was in close proximity to the busy NH-40

8.1.1 Awareness Programme

The officials of the Meghalaya State Pollution Control Board has attended various Awareness Programmes as resource persons organised by different Departments of Meghalaya for the year 2017-2018 which is as indicated in Table 8.1.1

TABLE 8.1.1: AWARENESS PROGRAMME FOR THE YEAR 2017-2018

Sl. No.	DATE	AWARENESS PROGRAMME	ORGANIZED BY	MSPCB's RESOURCE PERSON
1	9 th -10 th June, 2017	Awareness cum-Cleaning Drive	Mawthadraishan C& RD Block	Shri. W.R Kharkrang, EE-1
2	25 th August, 2017	Solid Waste Management at Community Hall, Laitlum Village	Khasi Hills Autonomous District Council	Shri. W.R Kharkrang, EE-1
3	21 st August, 2017	Solid Waste Management	Khasi Hills Autonomous District Council	Shri. W.R Kharkrang, EE-1
4	11 th August, 2017	Popularising of Remote Sensing based Maps and Geospatial Information at NESAC	Indian Society of Remote Sensing (ISRS) - Shillong Chapter	Shri. J.F.Lamurong, AEE-II
5	26 th September, 2017	Solid Waste Management at NESAC	NESAC	Shri. W.R Kharkrang, EE-1 Smti. Erisa Shilla, AEE-V
6	6 th November, 2017	Implementation of Solid Waste Management Rules, 2016 at the Conference Hall, Riatsasim, Jowai.	Jaintia Hills Autonomous District Council	Shri. W.R Kharkrang, EE-1 Smti. Erisa Shilla, AEE-V
7	12 th December 2017	Symposium on Clean Shillong	Meghalaya Economic Association	Shri. W.R Kharkrang, EE-1

CHAPTER – IX

PRESENT STATE OF THE ENVIRONMENT, ENVIRONMENTAL PROBLEMS AND COUNTER MEASURES

One of the beautiful hill states of North Eastern Region of India is Meghalaya measuring 22,429 Sq. Kms. of area with 29,66,889 population as per 2011 Census. The State is rich in mineral resources which are found almost in its entire southern belt. Private mining activities were very unscientific and unplanned thus causing severe water pollution and environmental degradation. Small scale industries have been increasing into larger ones, for example, from small scale industries of stone crushing into large scale cement industries which gives rise to the ecological imbalance in the State. To curb these ever increasing problems, this Board therefore, applies different measures as per the Rules in force.

Pollution Control and Waste Management:

9.1: Solid Waste Management

Indiscriminate dumping of garbage, indiscriminate discharge or disposal of domestic sewage, trade effluents, urban solid wastes due to rapid population growth and fast urbanization also contributed to the ecological imbalance in the State. In this respect, the Meghalaya State Pollution Control Board has issued a direction to all Urban Local Bodies in the State to implement the provisions of the Solid Waste Management Rules, 2016 relating to development of infrastructure for collection, storage, segregation, transportation, processing and disposal of municipal solid wastes (in areas within its jurisdiction) in accordance to the provisions and compliance criteria/standards as stipulated in the Solid Waste Management Rules, 2016.

9.2: Bio-Medical Waste Management:

Health Care Facilities has increased tremendously in recent years in the State and without proper methods of disposal of wastes from the health care units may pose great risk to human health and may create environmental pollution. Thus, prompting the government to implement new ways of scientific management of bio-medical wastes. The Board has issued direction to ensure that all health care units to apply for authorization in the prescribed Form II as required under Rule 10 of the Bio-Medical Waste Management Rules, 2016.

9.3: Consent Management:

Under the large-scale industrial sector cement plants falls under the 17 categories of highly polluting industries. The others were medium and small-scale industries such as power plants, lime calcination plants, ingot manufacturing and steel rolling mills, Ferro alloys manufacturing unit, stone crushing units, auto workshops, auto servicing units, D.G. Sets etc. Most of the lime calcination units were coal – fired and kilns were of traditional types (pajwa), which do not have even hood and chimney for venting out the smoke.

The Board was regulating the discharged of effluents and air emissions from industries through the issuance of Consents to Establish/Operate under Water & Air Acts. While issuing Consents, conditions were being imposed with regard to the effluent and the emission standards to which industries have to comply with. Conditions were also stipulated for setting up effluent treatment plants and/or installing of air pollution control systems whenever they were found necessary. The Board periodically collects and analyses effluent samples for verification of compliance to the consent conditions by industrial units. The industries were also instructed to ensure that pollution control systems, whenever necessary, were installed and commissioned within a stipulated period.

During the year **2017-2018** the number of industries/firms/units which the Board granted for Consent to Establish and Consent to Operate under the Water (Prevention& Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 is appended in the **Annexure-3** and **Annexure-4** respectively.

9.4: Water Quality Assessment:

The Meghalaya State Pollution Control Board (MSPCB) has established a network of Water Quality monitoring stations in the State. The present network comprises of 54 stations in the State under the National Water Monitoring Programme (NWMP). The monitoring network covers 20 Rivers, 4 Lakes, 7 springs/wells.

Out of the 54 stations, the following water bodies have been identified by CPCB as polluted stretched in the State of Meghalaya with respect to BOD level.

Sl. No.	Name of River	District
1	Umkhrah&Umshyrpi Rivers	East Khasi Hills District
2	Kyrhukhla River, Lunar River (tributary of Lukha River) at Myndihati	East Jaintia Hills District
3	UmtrewByrnihat Rivers	Ri-Bhoi District
4	Myntdu (Jowai)	West Jaintia Hills District
5	Nanbah (Nongstoin)	West Khasi Hills District

Measures taken:

1. The Board had informed the respective Deputy Commissioners of the district regarding the status of the water bodies with a request to take necessary steps to formulate action plan to control the pollution sources.

2. The respective Deputy Commissioners had taken up with the line Departments for formulation of action plan. The District Administration has also issued prohibitory orders against dumping of solid waste and liquid waste in the respective rivers/streams.

9.5: Air Quality Assessment:

The Meghalaya State Pollution Control Board was assessing the ambient air quality in the State over a period of time. A monitoring network with 10 (Ten) Ambient air quality-monitoring stations under National Air Monitoring Programme (NAMP) were placed to assess the changes in air quality.

Three criteria pollutants viz. PM₁₀ (Particulate Matter having an aerodynamic diameter less than or equal to 10 μm), Sulphur dioxide (SO₂) and Nitrogen dioxide (NO₂) were monitored for regular monitoring of air quality. The monitoring of meteorological parameters such as wind speed and direction, relative humidity and temperature were also integrated with the monitoring of air quality. Air quality monitored during 2017 indicates that PM₁₀ levels exceeded the NAAQS (annual average) at 2 sampling stations viz (i) Export Promotion Industrial Park (EPIP), Byrnihat, (Stn-III- Industrial area) and (ii) Umiam Industrial Estate, Ri-Bhoi District (Industrial area).

High concentrations of Particulate Matter (PM₁₀) levels observed at Export Promotion Industrial Park (EPIP), Byrnihat, (Industrial area) and Umiam Industrial Estate, Ri-Bhoi District which may be attributable to the buildup of pollutants owing to emissions from industries located in the industrial area, dust generated due to movement of vehicles, natural dust, and construction activities.

Industrial Pollution Control:

1. The air pollution control devices installed should be properly maintained so as to ensure control of the Particulate Emission of the plant.
2. The ambient air quality within the Plant premises and surrounding areas should be maintained within the National Ambient Air Quality Standards.
3. The Board officials inspect the industries regularly to observe the measures taken for compliance of pollution control norms.
4. Appropriate preventive measures should be adopted to reduce fugitive emission so as to control the concentration of particulate matter in the ambient air.

CHAPTER - X

ENVIRONMENTAL TRAINING / WORKSHOP / SEMINAR / CONFERENCE / SUMMIT

10.1 One of the important tools in the administrative system of the Board was the Environmental Training. The Trainees of the Board who were equipped with different trainings were in turn imparting trainings with presentations to reputed Institutes/ Organizations of the State.

The Environmental Training attended by the officials of the Board during the year 2017-2018 is shown in the following Table-10.1

Table-10.1: Environmental Training attended by the Board's Officials

Sl. No.	Date	Name of Officer/Staff	Training Programme & Place of Training
1	22 nd -23 rd June 2017	Shri C.P. Marak, IFS, Chairman	Green Co Summit 2017, Pune
		Shri. M.S. Tiewsoh, A.E.E.	
2	22 nd June 2017	Smti. D. Syiemlieh, E.E.	Workshop on River Valley Projects under Environmental Clearance, MoEF & CC NERO, Law-U-Sib, Shillong.
		Shri S. Syiem, A.E.E.	
3	11 th August 2017	Shri A. Lyngdoh, J.S.A.	National Workshop on Popularization of Remote Sensing Based Maps and Geospatial Information, organized by Indian Society of Remote Sensing and ISRO, NESAC, Umiam, Shillong
4	12 th September 2017	Shri M.N. Warbah, J.S.A.	NABL Accreditation Awareness Program for Pollution Control Board Laboratories, Meghalaya State Pollution Control Board, Shillong.
		Shri J. Kharshiing, J.S.A.	
		Dr.(Miss) D. Tariang, J.S.A.	
		Shri A. Lyngdoh, J.S.A.	
		Shri S. Nongrum, J.S.A.	
		Smti H. Kharkongor, L.A.	
5	3 rd -4 th November 2017	Shri C.P. Marak, IFS, Chairman	International Conference on Environmental Issues, New Delhi
		Shri J.H. Nengnong, M.Secy.	
		Dr.(Ms.) B. Nongbri, Sr. Sc.	
		Shri W.R. Kharkrang, E.E.	
6	9 th -10 th November 2017	Shri M.N. Warbah, J.S.A.	6 th National Conclave for Laboratories, Kolkata
		Shri J. Kharshiing, J.S.A.	

7	13 th November 2017	Dr.(Ms.) B. Nongbri, Sr. Sc.	Workshop on Faecal Sludge and Septage Management in Urban Areas in India, Hyderabad
8	1 st -5 th December 2017	Shri A. Lyngdoh, J.S.A.	North East Green Summit 2017, Guwahati
9	8 th January 2018	Shri B. Kar, J.A.	Workshop on Implementation of NPS in State Autonomous Bodies of North Eastern States, Guwahati
		Shri W.L. Syiemlieh, U.D.A	
10	23 rd January 2018	Shri C.P. Marak, IFS, Chairman.	Conference on Implementation of directions of Hon'ble NGT for implementation of SWM Rules, 2016, New Delhi.
		Shri J.F. Lamurong, A.E.E.	
11	2 nd February 2018	Shri S. Syiem, A.E.E.	Training Programme on "Chemical Accident Reporting System and GIS Emergency Planning and Response System and implementation of the Manufacture and Storage and Import of Hazardous Chemicals Rules, 1989 and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules 1996, New Delhi.
12	5 th -7 th February 2018	Shri C.P. Marak, IFS, Chairman.	International Workshop on "Asai-Africa Regulators Conclave on SMART & Affordable Monitoring, Rajasthan
		Shri S. Syiem, A.E.E.	
13	12 th -13 th February 2018	Shri C.P. Marak, IFS, Chairman.	Indo US Workshop on Climate Change downscaling in EPTRI, Hyderabad
		Shri J.F. Lamurong, A.E.E.	

CHAPTER – XI

OTHER ACTIVITIES OF THE BOARD

11.0: Activities:

- Introduction of On-line monitoring of Emission & Effluent of the highly polluting industries falling under the 17 categories of the polluting industries as notified by the Government of India for which 13(thirteen) industries have installed opacity meters in their units.
- Implementation of Court orders issued on related matters.
- Implementation of Board's decision & resolution of Conference of PCB's relating to concerned activities.
- Laboratory Development: The Meghalaya State Pollution Control Board in performance of its function under Section 17 (2) of the Water (Prevention & Control of Pollution) Act, 1974 established its own Laboratory at Shillong in 1988 for the purpose of analysis of samples of water, waste water, air, soil and solid waste. The Board's Laboratory has also been recognized as **"State Water and Air Laboratory"** by the Government of Meghalaya. The Laboratory is presently equipped with sophisticated instruments like Atomic Absorption Spectrophotometer, Gas Chromatograph, Specific Ion Analyzer, UV-Spectrophotometer etc. besides the basic laboratory equipment/instruments required for analysis/monitoring of environmental parameters. The Laboratory of the Board also designated as State Referral Institute (SRI) for providing Technical advise to PHED in implementing the National Rural Drinking Water Quality Monitoring & Surveillance Programme(NRDWQM&SP). Inorder to ensure analytical quality, the Central Laboratory, MSPCB has participated in Proficiency Testing programme/Analytical Quality Control exercise organized by CPCB, Delhicovering physico-chemical parameters and Inter Laboratory Comparison with accreditedLaboratory for biological parameters.
- The Board had applied for NABL Accreditation of the Central Laboratory for chemical and biological testing discipline as per ISO/IEC/17025:2005 in accordance with ISO/IEC: 17025.
- The Board had undertaken a study on the assessment of water quality of River Lukha, Jaintia Hills District, Meghalaya. The study was under progress during the current financial year.

11.1 WATER (Prevention & Control of Pollution) CESS ACT, 1977.

The function of the Board under the Act and Rules made thereunder was to assess and collect a cess from local authorities/bodies and industries consuming water for domestic and industrial purposes.

During the year 2017-2018 the total amount of Cess collection was Rs.2,68,341/- (Rupees Two Lakhs Sixty Eight Thousand Three Hundred Forty One) only.

The Cess collected was remitted to the consolidated fund of India through Ministry of Environment & Forests, Government of India.

However, the Water Cess has been subsumed within the Goods and Services Tax (GST) with effect from 1st July 2017. The Water (Prevention & Control of Pollution) Cess Act, 1977 has also been repealed under the provision of the Taxation Law (Amendment) Act, 2017, as per notification by Ministry of Finance (Department of Revenue) vide G.S.R. 665(E), New Delhi dated 28th June 2017.

As such, with the abolishment of the WATER (Prevention & Control of Pollution) CESS ACT, 1977, notice were issued to local authorities/bodies/units and industries for their general information on the status of the said Act.

11.2 WASTE MANAGEMENT

11.2.0 Bio-Medical Waste Management Rules, 2016

The Meghalaya State Pollution Control Board was a Prescribed Authority for implementation and to carry out corresponding duties of the Bio-Medical Waste Management Rules, 2016 in the State of Meghalaya.

During the year, the Meghalaya State Pollution Control Board carried out the following duties in compliance to the Bio-Medical Waste Management Rules, 2016.

1. Compilation of data and submission of the same in annual report to the Central Pollution Control Board.
2. Grant and renewal, suspension or refusal, cancellation or of authorization under these rules.
3. Monitoring of compliance of various provisions and conditions of authorization.
4. Action against health care facilities or common bio-medical waste treatment facilities for violation of these rules.
5. Organising training programmes for staff of health care facilities and common bio-medical waste treatment facilities on segregation, collection, storage, transportation, treatment and disposal of bio-medical wastes.

The Meghalaya State Pollution Control Board carries out inspection of Health Care Facilities from time to time during which issues regarding the implementation Bio-Medical Waste Rules are discussed.

11.2.1 Status of Bio-Medical Waste Management

Inventory of Health Care Facilities (HCFs) in the State of Meghalaya is shown in the table – 11.2.1

Table – 11.2.1

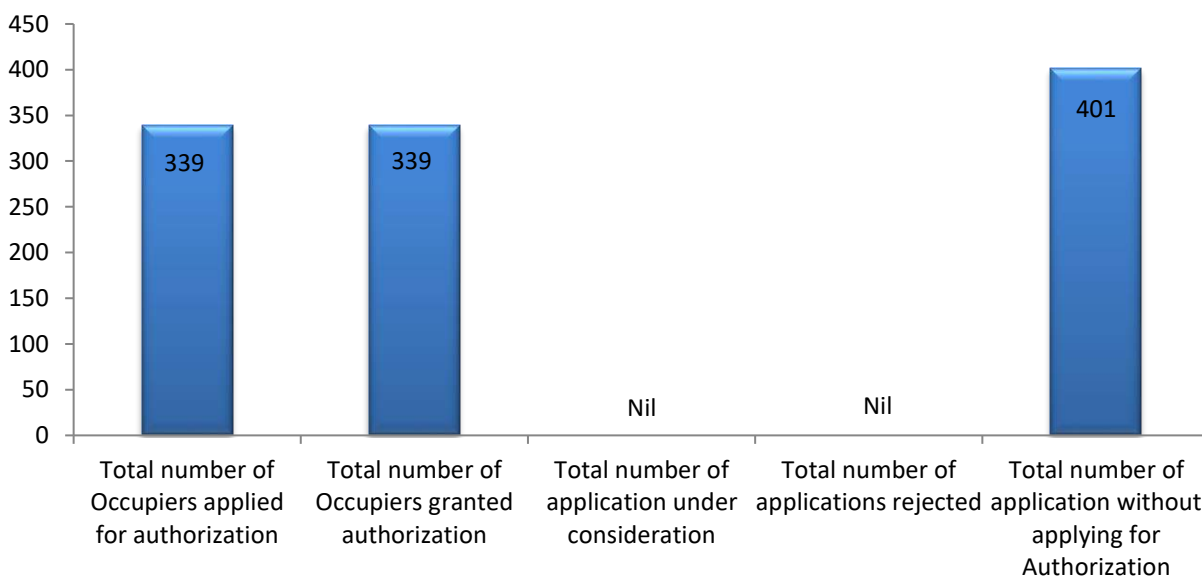
Total Number of HCFs in the State as on March 2018

Sl. No.	Name of Health Care Facilities	2017-2018
1	Bedded Hospitals and Nursing Homes (Bedded)	174
2	Clinics, Dispensaries, Sub Centers	474
3	Veterinary Institutions	76
4	Animal Houses	Nil
5	Pathological Laboratories	15
6	Blood Banks	Nil
7	Research Institutions	1
TOTAL		740

11.2.2 Status of Authorization granted by the Board under Bio-Medical Waste Management Rules, 2016

Status of authorization granted by the Board to the Health Care Facilities under Bio-Medical Waste Management Rules, 2016 is shown in the chart below:

Status of authorization granted by the Board

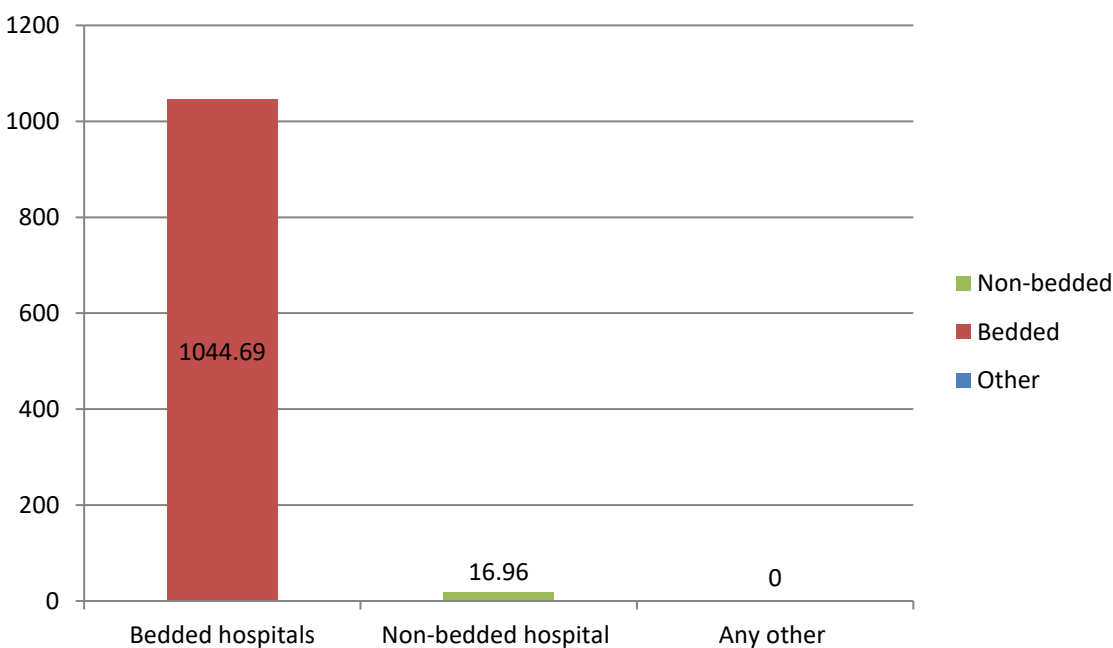


For the year 2017, only 106 nos. of Health Care Facilities have submitted the Annual Report and information on Bio-Medical Waste Generation as per the annual report submitted is as follows:

District-wise Bio-medical Waste Generation (for the Year 2017)

Sl. No.	Name of the State	Name of the District	Bio-medical Waste Generation (in Kg/day)	Existing total Bio-medical Waste treatment capacity (both captive and CBMWTF) in kg/day	
				Equipment	Total
1	Meghalaya	East Khasi Hills	664.53		
2		West Khasi Hills	48.41	Incinerator	1040
3		South West Khasi Hills	2.71	Autoclave	220
4		West Jaintia Hills	62.93	Deep Burial	685
5		East Jaintia Hills	9.23	Any other	294
6		West Garo Hills	200.74		
7		South Garo Hills	21.25		
8		East Garo Hills	27.45		
9		North Garo Hills	8.98		
10		Ri Bhoi	15.42		
Total Bio-Medical Waste Generation			1061.65 Kg/Day		

District Wise Bedded and non-Bedded Bio-Medical Waste Generation



Bio-medical waste treatment and disposal by Health Care Facilities

Number of Health Care Facilities having captive treatment and disposal facilities	88
Total bio-medical waste treated and disposed by captive treatment facilities in kg/day	663.58

Bio-Medical Waste treatment and disposal by Common Bio Medical Waste Treatment Facilities

Information on Common Bio-medical Waste Treatment & Disposal Facilities (for the Year 2017)

Sl. No.	Name & Address of the CBWTF with contact person name and telephone no.	GPS Coor-di-nates	Coverage Area in KMs	Name of the cities/areas covered by CBWTF	Total no. of HCFs being covered	Total no. of beds covered	Total Quantity of BMW Collected from member HCFs (in kg/day)	Capacity of Treatment equipments installed by CBWTFs			Total Bio-medical waste treated (in kg/day)	Method of Disposal of treated wastes (incineration Ash/Sharps/Plastics)
								Equipment	Nos.	Total installed capacity in Kg/day		
1	Shri. F.B. Chyne, E.E, Shillong Municipal Board, Jail Road, Shillong 793001 Phone No. 9436100719	-	-	Shillong	Hospitals: 9 Veterinary Hospital : 1 Medical Research : 1 Clinics & Diagnostic Centre : 9 Dispensary: 1	2794	398.07	Incinerator	1	800	398.07	Incineration Ash: Quantity: Disposed By :Land Fills
								Plasma Pyrolysis	Nil	Nil	Nil	
								Autoclave	Nil	Nil	Nil	Sharps: Quantity: Disposed By:
								Hydroclave	Nil	Nil	Nil	
								Microwave	Nil	Nil	Nil	Plastics: Quantity: Disposed By:
								Shredder	Nil	Nil	Nil	
								Sharps Encapsulation or Concrete Pit	Nil	Nil	Nil	ETP Sludge: Quantity: Disposed By:
								Deep Burial Pits	Nil	Nil	Nil	
								Any other Equipment	Nil	Nil	Nil	
								Effluent Treatment Plant	Nil	Nil	Nil	Disposed By:
Sub-Total	1	800	398.07									

- Total Number of transportation vehicles used for collection of Bio-medical Waste on daily basis by the CBWTF: 1
- List of Health Care Facilities not having membership with the CBWTF and neither having captive treatment facilities: Nil
- No. of trainings organised by the CBWTF Operator: Nil
- No. of Accidents Reported by the CBWTF: Nil

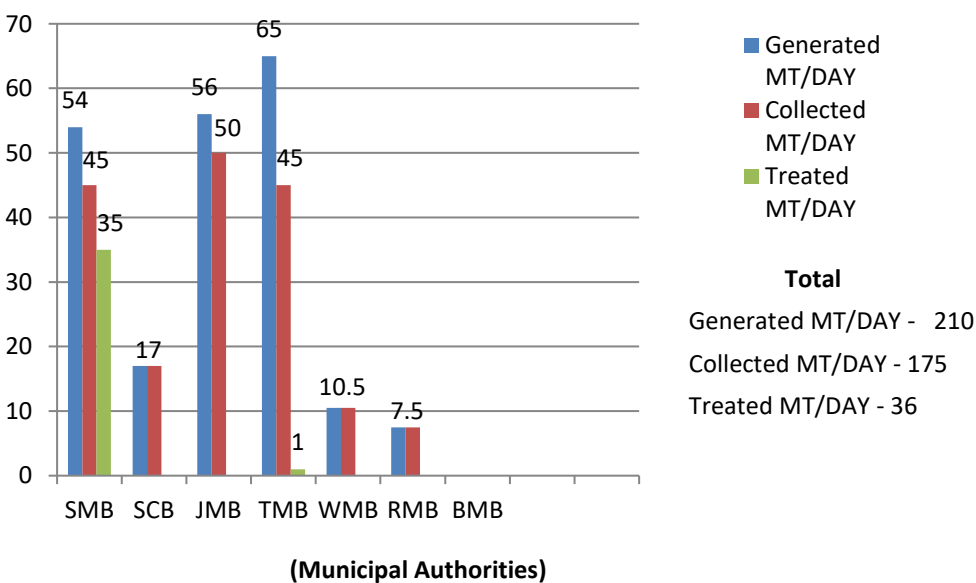


11.3.0 SOLID WASTE MANAGEMENT RULES, 2016.

The Meghalaya State Pollution Control Board enforced the Solid Waste Management Rules, 2016 through local bodies and review implementation of these rules twice a year in coordination with the Meghalaya Urban Development Authority (MUDA), Urban Affairs Department and the Deputy Commissioner of the District. The Board inspects/monitors environmental standards and adherence to conditions as specified under the Schedule-I and Schedule-II for waste processing and disposal sites, examine the proposal for authorization for waste processing and disposal from the local body or any other agency authorized by the local body. The Board grants authorization to the local body or an operator of a facility or any other agency authorized by local body for setting up of the solid waste processing and disposal facilities.

11.3.1 Status of Solid Waste Management and the progress made by local bodies

YEAR 2017-2018



Summary Statement on progress made by local bodies in respect of Solid Waste Management

1. TURA MUNICIPAL BOARD:

- (i) **Setting up of waste processing and disposal facilities:-**
A Vermi-compost Plant was adopted at Tura for processing of bio-degradable waste.
- (ii) **Monitoring the performance of waste processing and disposal facilities:-**
Monitoring of the performance of the waste processing and disposal facility was not carried out by the Board due to acute shortage of Scientific and Technical manpower.

(iii) ***Improvement of existing landfill sites as per provision of these Rules:-***

A study of the solid waste generation and characteristic of the Municipal area had been undertaken by M/s Anderson Biotech, Shillong and the detailed project report had been submitted to the Government in the Urban Affairs Department, Meghalaya to move for sanction of funds from the Government of India for a Scientific Solid Waste Management Project. The Project Report was accepted by the Government of India and construction work had commenced and installation of machineries was under process at Municipal Dumping Ground located in Rongkon Songgital.

(iv) ***Identification of landfill sites for future use and making the site ready for operation:-***

The Tura Municipal Board had no proposal for selection of a new site for future use.

2. JOWAI MUNICIPAL BOARD:

(i) ***Setting up of waste processing and disposal facilities:-***

The Jowai Municipal Board had acquired a plot of land at Sabah Muswang for the purpose of construction of a scientific landfill site. The Detailed Project Report for the proposed project had been prepared by the Meghalaya Urban Development Authority and was lying with the Government for approval.

(ii) ***Monitoring the performance of waste processing and disposal facilities:-***

Monitoring of the performance of the waste processing and disposal facility was not required presently as there was no processing facility.

(iii) ***Improvement of existing landfill sites as per provision of these Rules:-***

The Jowai Municipal Board does not have its own disposal site. At present, the Municipal Solid Wastes collected by the Board were disposed/dumped at the Jaintia Hills Autonomous District Council dumping ground at Mynkjai.

(iv) ***Identification of landfill sites for future use and making the site ready for operation:-***

The Jowai Municipal Board had acquired a plot of land at Sabah Muswang for the purpose of construction of a scientific landfill site.

3. WILLIAMNAGAR MUNICIPAL BOARD:

There was no proposal for processing of Municipal Solid Waste either by composting, vermi-composting or pelletisation by the Williamnagar Municipal Board. Monitoring of the performance of the waste processing and disposal facility was not required presently as there was no processing facility. There was no proposal for the improvement of the existing landfill site by the Williamnagar Municipal Board. The Board had no proposal for selection of a new site for future use as the average daily quantity of waste generated was only about 10.9 MT and the existing site had sufficient area for its disposal.

4. SHILLONG MUNICIPAL & CANTONMENT BOARDS

An Aerobic Compost Plant had been set up at Mawiong for treating bio-degradable municipal solid waste. The total quantity of waste processed for composting was 35 MTPD. The Municipal Solid Wastes generated by the areas under the Shillong Municipal Board, Shillong Cantonment Board and few localities outside the municipal areas were processed at this processing Plant. Monitoring of the performance of the waste processing and disposal facility

was carried out by the Board from time to time. The State Investment Programme Management & Implementation Unit (SIPMIU) will be setting up a Scientific Landfill near Umsawli Village outside Shillong under the North Eastern Region Capital Cities Development Investment Programme (NERCCDIP) with the financial assistance of the Asian Development Bank (ADB).

Coloured bins (Green and Blue) i.e. Wet waste (biodegradable) in the GREEN bin and non-biodegradable waste in the BLUE bin have been provided by the Shillong Municipal Board through an ADB funded project. About 60% compliance of segregating waste at household level and storing in colour coded bins has been registered during the operation segregation.

Daily collection of garbage was being done from community dustbins as well as door-to-door. To control the unregulated throwing of waste 200 nos. of bamboo dustbins, 30 nos. of hanging dustbins and sign boards for prohibition of throwing were being installed and displayed. To bring about public awareness and participation, Shillong Cantonment Board has initiated a cleaning drive of the Umshyrpi River.

5 RESUBELPARA MUNICIPAL BOARD

There was no proposal for processing of Municipal Solid Wastes either by composting, vermi-composting or pelletisation by the Resubelpara Municipal Board as the quantity of the waste generation was very less, at an average of 0.75 MT/day. Monitoring of the performance of the waste processing and disposal facility was not required presently as there was no processing facility.

Disposal of solid waste (number/names of towns/capacity):

Landfill sites identified	-	1 no. (Jowai Municipal Board)
Landfill constructed	-	Nil
Landfill under construction	-	Nil
Landfill in operation	-	Nil
Landfill exhausted	-	Nil
Landfill capped	-	Nil

Solid Waste Dumpsites (number/names of towns/capacity):

There were 6 nos. of existing dumpsites. They were (i) Shillong Municipal Board, (ii) Shillong Cantonment Board, (iii) Jowai Municipal Board, (iv) Tura Municipal Board, (v) Williamnagar Municipal Board and (vi) Resubelpara Municipal Board. The dumpsites reclaimed/capped stand at Nil whereas the dumpsites converted to sanitary landfill was of 1 no. i.e. of the Shillong Municipal Board.

Monitoring at Waste processing/Landfills sites

Sl. No.	Name of facilities	Ambient air	Ground water	Leachate quality	Compost quality	VOCs
1.	Dumping Site of Shillong Municipal Board	Yes	Yes	Yes	No	No

Status of Action Plan prepared by Municipalities

Total number of municipalities : 7

Number of Action Plan submitted : 5

Status of implementation of the Action Plan, etc.

Shillong Municipal Board- Coloured bins (Green & Blue) i.e. Wet waste (biodegradable) in the GREEN bin and non- biodegradable waste in the BLUE bin had been provided by the SMB through an ADB funded project. About 60% compliance of segregating waste at household level and storing in colour coding bins had been registered during the operation segregation. The garbage truck drivers and the attendants had been trained and they were turning as monitors and educators of the public on segregation of wastes. The Shillong Municipal Board had organized awareness training events for the urban citizens of Shillong, conducted public consultation meeting and trained students on zero littering campaign.

Shillong Cantonment Board- Daily collection of garbage was being done from community dustbins and door to door. To control the unregulated throwing of waste 200 nos. of bamboo dustbins, 30 nos. of hanging dustbins and sign boards for prohibition of throwing were being installed and displayed. To bring about public awareness and public participation, Shillong Cantonment Board had initiated a cleaning drive of the Umshyrpi River.

Tura Municipal Board- Inability of land for waste disposal or landfill site as all parts of land was mostly terrain and there was a large chance of water fast from disposal site to natural water bodies. Absence of recycling facilities for recyclable substances and absence of skilled labours for waste treatment. They tried to maintain cleanliness, sanitation, hygienic within its jurisdiction inspite of fund constraint and shortage of staff.

Williamnagar Municipal Board- Efforts was being made to engage the private firm for processing of waste by Vermi composting due to fund constraint faced by the Local Body.

Jowai Municipal Board- Fund constraint, transport vehicles are too old and needs complete replacement and inadequate manpower faced by the Local Body affected the implementation of Action Plan.

11.3.2 PLASTIC WASTE MANAGEMENT RULES 2016

The implementation of the Plastic Waste Management Rules 2016 was a continuous process.

All the Municipalities in the State have been informed to implement the Plastic Waste Management Rules 2016.

Towns/cities

(1)	(2)	Estimated Plastic Waste Generation Tons Per Annum (TPA)			(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
		Plastic Units	Compostable Plastic Units	Multilayer Plastic Units								
Meghalaya State Pollution Control Board	Shillong Municipal Board- 6.276 MTPA Shillong Cantonment Board- 2.12 MTPA Baghmara Municipal Board- 0.4 MTPA Tura Municipal Board- 2.78 MTPA Resubelpara Municipal Board- 0.32 MTPA Jowai Municipal Board- 2.8 MTPA Williamnagar Municipal Board- 0.4 MTPA Total= 15.096 MTPA	4*	Nil	Nil	Nil	Annexure - I	Annexure - II	M/s Karkarnia Industries manufactures carry bags that are labeled with the name of manufacturer and registration number To be omitted as per Notification G.S.R. 285(E) dated 27 th March 2018	State level Advisory Body has been constituted vide Notification No. UAU.70/2016/81, dated Shillong the 25 th January 2018. Meeting was held on 27 th June 2019. Minutes of the meeting are awaited	Nil	7	

Note: *Plastic Units Registered and their products are as follows:

- M/S Megha Polycon (P) Ltd. : DPE/LLDPE Water Storage Tanks
- M/S Kakarania Innovative Systems (P) Ltd. : Polythene tubes; Plastic bags (plain/printed); Plastic sheet films; Linear Wrappers; Laminated rolls/pouches (plain/printed)
- M/S Meghalaya Polymers : Water Stage Tanks
- M/S K R Polymers : Plastic Pipes and Pipe Fittings

The Waste was collected as municipal waste into dry waste and wet waste:

The plastic waste was segregated from the dry waste at the dumpsite and collected for compaction and bailing.

Dalmia Bharat Cement, Lumshnong, East Jaintia Hills District, had informed Regional Director, Northeastern Zone, CPCB that their plant was ready for co-incineration of plastic and solid waste. Under process to make waste available.

A meeting was held with the Urban Affairs Department to make plastic waste and other Municipal Solid Waste available to Dalmia Bharat Cement Ltd. As RDF on the 20th July 2018. Minutes of the meeting are awaited.

A 1Km road was constructed in Nongkynjeng village in West Khasi Hills, Meghalaya using plastic wastes.

Use and sale of plastic bags less than 50 microns had been prohibited and public notice had been issued vide No. MPCB/TB-144(B)/2016-2017/79 dated 16th February 2017 regarding compliance to the PWM Rules 2016.

Raids/checking/survey were conducted by the District Magistrate, East Khasi Hills District vide Order No EKJ.20/6/2017/22-A/801 dated 20th September 2017 (attached) on the local market for compliance to the PWM Rules 2016.

11.3.4 The Batteries (Management and Handling) Rules, 2001.

The implementation of the Batteries (Management and Handling) Rules, 2001 was a continuous process.

Part-A: Quantity of used leads batteries channelized to registered recyclers for the year 2017-2018

A- Manufacturer.

Sl. No.	Name & Address of Manufacturers	Quantity of batteries sold		Quantity of batteries sold		NO of collection centres	No of dealers	No of registered dealers
		Nos.	Weights in kgs.	Nos.	Weights in kgs.			
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

B- Assembler.

Sl. No.	Name & Address of Assembler	Quantity of batteries assembled & sold		Quantity of batteries sent to Authorized recyclers	
		Nos.	Weights in kgs.	Nos.	Weights in kgs.
1)	Green Vision Technologies Pvt. Ltd.	Nil	Nil	Nil	Nil

C- Importer

Sl. No.	Name & Address of Assembler	Quantity of batteries assembled & sold		Quantity of batteries sent to Authorized recyclers	
		Nos.	Weights in kgs.	Nos.	Weights in kgs.
1	Nil	Nil	Nil	Nil	Nil

D- Bulk Consumers

Sl. No	Name & Address of bulk consumer	Quantity of batteries purchased		Quantity of batteries sent to Authorized recyclers	
		Nos.	Weights in kgs.	Nos.	Weights in kgs.
1.	Office of the commissioner of custom (Preventive), Address : 110 Mahatma Gandhi Road, NER Shillong -793001	Nil	Nil	Nil	Nil
2.	Saigal Enterprice, Laitumkhrach centre point , Shillong 793003	78 Nos	1092 Kg	78 Nos	1092 Kg
3.	Amrit Cement Limited, C/o Mr. R.C Rymbai, Umlaper village, Rymbai Elaka Jaintia Hills District 793200.	Nil	Nil	Nil	Nil
4.	Aviva Life insurance comapnty limited.2 nd Floor Gita Bhawan Building Police bazaar Thana Road Shillong 793001.	Nil	Nil	Nil	Nil

E- Auctioneers

Sl. No	Name & Address of Auctioneers	Quantity of batteries Auctioneers		Quantity of used batteries sent to Authorized recyclers	
		Nos	Weights in kgs	Nos	Weights in kgs
1	Nil	Nil	Nil	Nil	Nil

F- List of registered recyclers and quantity of used batteries recycled by them

Sl. No.	Name & Address of Authorized recycler	Capacity of recyclers in MT/ year	Weight of used batteries received from the recycler								
			Manufacturer	Assembler	Dealer	Importer	Bulk Consumers	Auctioneer	Self-imported	Others Sources	
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

11.3.5 Hazardous Waste Management

Hazardous Waste Management in the State of Meghalaya was a continuous process.

All the hazardous waste generating industries in the State had been informed to properly implement the Hazardous & Other Waste Management Rules 2016.

Submission of Revised Annual Inventory of Hazardous Waste Management (2017-2018)

Name of SPCB: Meghalaya State Pollution Control Board

Sl. No.	Name of the District	Number of HW generating units	Quantity of HW as per authorization (MTA)	Quantity of HW generated as per annual return (MTA)	Quantity disposed in captive SLF (MTA)	Quantity disposed through common SLF at TSDF (MTA)	Quantity disposed by captive incinerator	Quantity disposed through common incinerator at TSDF (MTA)	Quantity co-processed in cement kiln (MTA)	Quantity utilized under Rule 9 (MTA)	Quantity sent to recyclers of schedule-IV HW (MTA)	Captive utilization (MTA)	Quantity of HW stored at occupier premises at the end of the year (MTA)
1	2	3	4	5	6	7	8	9	10	11	12	13	
1	Ri-Bhoi	5	9.72 KL/A & 430 MTPA	2.75 KL/A & 395.60 MTPA	—	—	—	—	—	—	2.75 KL/A & 383 MTA	—	12.6
2	East Khasi Hills	1	20 KL	7.69 KL	—	—	—	—	—	—	7.69 KL	—	—
3	East Jaintia Hills	8	57.125 KL	53.18 KL	—	—	—	—	—	—	53.18 KL	—	—

11.3.6 E-Waste (Management) Rules, 2016:

E-Waste (Management) Rules, 2016 which was notified vide Notification No.GSR 339(E) dated 23/03/2016 by the Ministry of Environment, Forest & Climate Change, Government of India and enacted and put into force from 1st October, 2016. The objective of this Rules was to improve the E-waste management system in the Country and to eliminate the constraints in implementation of the existing Rules and also to give thrust on waste minimization, recycling, for treatment and processing, scientific disposal etc.

The E-Waste Management Rules, 2016 was applied to every manufacturer, producer, consumer, bulk consumer, collection centres, dealers, e-retailer, refurbisher, dismantler and recycler involved in manufacture, sale, transfer, purchase, collection, storage and processing of e-waste or electrical and electronic equipment listed in Schedule I, including their components, consumables, parts and spares which made the product operational.

The Meghalaya State Pollution Control Board vide letter *No.MPCB/TB-8/2005/2016-2017/103 dated 17th Febrary, 2017* had published Public Notice for awareness of all manufacturers, Producers, Collection Centre, Dealers, Refurbishes, Consumers & Bulk Consumers, Dismantler, Recycler on the provisions of E-Wastes Management Rules, 2016 for necessary compliance.

There was no E-Waste Manufacturing unit, Recycling unit within the State of Meghalaya.

The Meghalaya State Pollution Control Board along with International Institute of Waste Management (IIWM), State Council of Science, Technology and Environment, Meghalaya (SCSTE) and the Meghalaya Basin Development Authority (MBDA) had jointly organized a workshop on E-waste for all the stake holder and Government Departments (Bulk Consumers) on August, 2017.

M/s Karo Sambhav Pvt Ltd. was being engaged by leading Producers as part of the EPR to collect the E-Waste on their behalf within Meghalaya.

E- WASTE COLLECTED WITHIN SHILLONG BY M/S KARO SAMBHAV PVT. LTD.												
COLLECTION PERIOD	CPU	KEY BOARD	CRT MONITOR	LCD MONITOR	MOBILE	PRINTER	C A R T I D G E	C H A R G E R	T A B L E T	C A B L E	L A P T O P	M O U S E
Feb-18			500									
Mar-18			1000									
TOTAL (Kg.):	-	-	1500	-	-	-	-	-	-	-	-	-
		Total collection:	1500	Kgs.								

The Meghalaya State Pollution Control Board on August, 2018 had issued notice to 141 identified bulk consumers for filing of annual returns to the Board. List of Bulk consumers along with the quantity of E-waste generated for the year 2017-2018 is as below:-

SL. NO	BULK CONSUMERS	QUANTITY	MODE OF DISPOSAL
1.	M/S Reliance Jio INFOCOM LTD., Shillong, EKHD	Nil	
2.	M/S Hotel Poinisuk Laitumkharah, Shillong, EKHD	3 KG	Stored within the Office.
3.	M/S Lafarge Umiam, Nongtra, Shella, EKHD	44.32KG	Stored within the Office.
4.	M/S Hotel Yalana, Laitumkharah, Shillong, EKHD	Nil	
5.	North Eastern Electric Power Corporation LTD. Shillong EKHD	Nil	
6.	Reserve Bank of India, Shillong, EKHD	Nil	
7.	Directorate of Soil & Water Conservation, Shillong, EKHD	Nil	
8.	Superintendent of Police, EKHD	Nil	
9.	National Institute of Electronics and Information Technology (NIELIT) Shillong	Nil	
10.	Bethany Hospital, Shillong, EKHD	Nil	
11.	St. Edmunds College, Shillong	Nil	
12.	Office of the Chief Engineer Water Resources Department, Shillong	Nil	
13.	Indian Institute of Management Shillong, EKHD	Desktop – 82 Nos., Laptop - 52 Nos., Xerox Machine – 21 Nos., Scanner – 6 Nos., Projector - 16 Nos., Generator – 4 Nos., TV - 47 Nos., Microwave- 26 Nos., Refrigerator - 28 Nos., Aqua Guard – 81 Nos., Washing Machine – 3 Nos., Coffee Machine – 3 Nos., Fogging Machine – 1 Nos.	Stored within the Office.
14.	All India Radio, Shillong, EKHD	Nil	
15.	Office of the Superintendent of Police, Williamnagar, EGH	Nil	
16.	Directorate of Civil Defence & Home Guards, Shillong, EKHD		
17.	Prasar Bharati, India's Public Service Broadcaster Doordarshan Kendra, Shillong, EKHD.	Nil	
18.	M/S Mawmluh Cherra Cements LTD, Taxation Building, Shillong, EKHD	Nil	
19.	M/S Goldstone Cements LTD. Musing Lamare, Khliehriat, EJHD	0.015 MT	Stored within the Office.
20.	M/ S Green Valley Industries LTD. Nongsning, Khliehriat, ELHD	13.8 KG	Stored within the Office.
21.	Directorate of Educational Research and Training Shillong, EKHD.	78KG	DIPOSED TO M/S RONGJENG TECHNOLOGIES PVT LTD
22.	Office of the Deputy Commissioner, WKHD		NIL
23.	M/S Maithan Alloys LTD. Rajabagan, Ri-Bhoi	300KG Approx.	Stored within the Office.

24.	Office of the Superintendent of Police, Resubelpara, NGHHD	40KG	Stored within the Office.
25.	58 Gorkha Training Centre, Happy Valley, Shillong	Nil	
26.	M/S CMJ Breweries PVT. LTD. Extended EPIP, Byrnihat, Ri-Bhoi	Nil	
27.	M/S Dalmia Bharat Cements LTD. Thangskai, EJHD	22.8KG	Disposed to E-Waste Recycler India, Ewri House, New Delhi
28.	Baghmara Civil Hospital	41.60KG	Stored within the Office.
29.	Ganesh Das Government Maternal & Child Health Hospital, Shillong	30KG	Stored within the Office.
30.	Jowai Civil Hospital, Ialong	ITEW 2- 36 Nos., ITEW 3- 48 Nos., ITEW 4 – 12 Nos., ITEW 6 – 24 Nos., ITEW 8- 1 No, CEEW 4 – 12 Nos., CEEW 4 – 12 Nos., Others – 60 Nos.	Stored within the Office.
31.	Meghalaya Institute of Mental Health and Neurological Sciences, Pasteur Hills, Shillong	55 KGS	Stored within the Office.
32.	Health Engineering Wings, Directorate of Health Services, Shillong	ITEW 7-12 Nos.	Stored within the Office.
33.	Director of Health Services (RES) Etc., Pasteur Hills, Shillong	2009.50 KG	Stored within the Office.
34.	Principal, Regional Health & Family Welfare Training Centre, Shillong	Nil	
35.	Civil Hospital Shillong	ITEW 2 – 3 Nos., ITEW 6 - 1 Nos., ITEW- 264 Nos.,	Stored within the Office.
36.	Reid Provincial Chest Hospital, Shillong	Nil	
37.	District Medical & Health Office, East Khasi Hills	6 KG	Stored within the Office.
38.	Director of Health Services (MI), Health Complex, Shillong	ITEW 2 – 72 Nos., ITEW 6 - 48 Nos., ITEW 7- 12 Nos., ITEW 8 - 24 Nos., ITEW 12 - 36 Nos., ITEW 14- 12 Nos.	Stored within the Office.
39.	Assistant Inspector General of Prisons, Meghalaya, Shillong	Nil	
40.	Superintendent of Police, East Garo Hills, Williamnagar	Nil	
41.	Deputy Commissioner, East Khasi Hills, Shillong	Nil	

11.3.7 Construction and Demolition Waste Management Rules, 2016:

Construction and Demolition Waste Management Rules, 2016 which was notified vide Notification No.G.S.R.317(E) dated 29th March 2016 by the Ministry of Environment, Forest and Climate Change, New Delhi with the objective of this Rule is to improve the management of waste resulting from construction, re-modeling, repair and demolition of any civil structure of individual or organisation or authority who generates construction and demolition waste such as building materials, debris, rubble.

The Construction and Demolition Waste Management Rules, 2016 implies mostly to service provider who provide services like water, sewerage, electricity, telephone, roads, drainage etc. often generate construction and demolition waste during their activities, which includes excavation, demolition and civil work. The Board had advised the Director, Urban Affairs Department to ensure formulation of the policy as per Rule 9 (1) of the Construction and Demolition Waste Management Rules, 2016. The Board, had also instructed the Government Departments/Agencies viz. Meghalaya Urban Development Authority, Public Works Department (Roads & Buildings) to prepare Comprehensive Waste Management Plan as required under Rule 5 (1) of Construction and Demolition Waste Management Rules, 2016. The Public Works Department vide letter No.PW/CE/Estt/90/1983/41 dated 05.12.2017 had intimated the Board that the Department had already initiated the process for identification of land required for disposal of construction and demolition wastes generated due to construction.

The Meghalaya Urban Development Authority vide letter No.MUDA/BPS/7/07-08/63 dated 18.08.2017 issued a Press Release that prohibited all owner, contractors, firms including Government Department undertaking building construction to dump construction and demolition waste of building materials etc. on roadside, drains and public space.

Site for collection and processing facility yet to be identified by the concerned State Department.

CHAPTER – XII

LEGAL MATTERS

12.1: CASES PENDING IN THE COURT THAT INVOLVES THE MSPCB DIRECTLY/INDIRECTLY

Cases on Environmental Issues filed in the Courts, had involved the Meghalaya State Pollution Control Board (MSPCB) either directly or indirectly.

In cases of direct involvement the MSPCB files affidavit or answers the court directly and in cases of indirectly involvement in a case, the MSPCB answers, furnishes information and submits reports to the State Government or Central Pollution Control Boards (CPCB).

There were cases where the Courts had constituted committees at National Level and sometimes at State Level for submitting reports and recommendations. In such cases the MSPCB furnishes reports /information directly to the committees or through the CPCB/State Government.

Matters were pending in the Hon'ble Supreme Court, the High Court and the National Green Tribunals and are highlighted as follows in the following tables:-

12.1.1: CASES IN THE SUPREME COURT

The following table highlights on the subject matter and involvement of the MSPCB in cases pending in the Supreme Court during 2017-2018:-

Sl. No.	Name of the Case	Subject Matter	Involvement
1.	Writ Petition (civil) No. 202 of 1995 T.N. Godavarman Thirumulpad Vs. Union of India.	Site Clearance by MoEF.	Following directions of the State Government.
2.	SLP NOs.16308/07 with SLP 16314/07, 16317/07, 16467-16469/07, WP Nos.131/11, 141/11, 289/11344/11, 69/11,182/11, 354/11 and 304/11. Contempt Petition Nos. 236/11, 237/11, 288/11, 356/11, 37/12 in SLP No. 16308/07 and Contempt Petition No. 348/11 in SLP No. 19467- 19469/07. ANKUR GUTKA ETC. ETC Petitioners Versus- INDIAN ASTHAMA CARE SOCIETY Respondents AND ORS. ETC. ETC	Plastics Waste (Management and Handling) Rules,2011 and the Municipal Solid Waste (Management and Handling) Rules,2000	Pollution Control Boards became impleaded vide Order Dt. 3-4-2013- filing affidavit and complying to directions from time to time.
3.	Writ Petition (C) No. 657 of 1995- Research Foundation for Science Technology and Natural Resource Vs Union of India & Ors	Hazardous Waste.	Complying the directions of the Court and recommendations of the Supreme Court Monitoring Committee and submitting report through the Central Pollution Control Board.

4.	Union of Civil Appeal no.5119-20 of 2015- Don Bosco School through its administrator & ors vrs Union of India & Ors	Environmental Clearance for Mining.	Sending Parawise comments to the Government.
5.	Wp (C) No. 110/2006- Peoples Rights & Social Res. Centre & Ors Vs Union of India & Ors	Air Pollution Control Devices in quartz industries	Answering through Central Pollution Control Board.
6.	Writ Petition(Civil) No.728/2015- Arjun Gopal Vs Union of India	Air Pollution by bursting of Fire Crackers	Direct Respondents
7.	Supreme Court Order Dt 01.11.2017 in S.M.W (Civil) No.1/2015 – In Re: Outrage as Parents end life after child’s dengue death & Ors	Solid waste Management Rules, 2016	Answering through the State government
8.	Supreme Court of India, Civil Appeal No 1657 of 2018, Bharat Jhunjunwala versus Pushp Saini and others	Pertain to release and maintenance of minimum environmental flows (e-flow) in rivers downstream of all hydro – power projects situated in India.	Direct Respondent
9.	Civil Appeal No5272 of 2016 KA Hima Nongstoin Land Owners, Coal Traders and Producers Association VRS All Dimasa students Union Dima Hasao Dist(15-16)	Coal Mining	Direct Respondent
10.	CIVIL Appeal Dairy No. 3067/2018 LEBER LALOO VS ALL DIMASA STUDENTS UNION, HASAO DISTRICT COMMITTEE & Ors.	Coal Mining	Direct respondent

12.1.2: Case Disposed

Sl. No.	Name of the Case	Subject Matter	Involvement
1.	W.P. (Civil) No. 212 of 2013, National Legal Services Authority Vs. Union of India & Ors.	Sand Mining	MSPCB furnished information/ paragraph - wise comments through the State Government. Matter was disposed.
2.	Writ Petition (civil No. 309 of 2003. Laxmi Narain Modi Vs. Union of India & Ors. With WP (C) No. 330 of 2001. With WP(C) No. 44 of 2004 With WP(C) No. 688 of 2007.	Slaughter House.	Complied to the directions and submitted report through the Central Pollution Control Board and through Committee at state level. Matter was disposed
3.	W.P.(C) No 000375/2012 Paryavaran Suraksha Samiti Vs. Union of India.	Installation of ETP, CETP, STP by all industries that require consents from Pollution Control Boards	MSPCB submitted action taken report to CPCB, the NGT/ Principal Bench, Delhi and Eastern Zone Bench, Kolkata. Matter was disposed.
4.	Civil Appeal no.526 of 2017-State of U.P Vs Rajendra Singh Bhandari & Ors	Recruitment Rules for Chairman and Member Secretaries of SPCBs/PCCs	Answering through the State Government. Matter was disposed.

12.1.3: CASES IN THE HIGH COURT

In the High Court, the cases involved the MSPCB either as Direct Respondent or as Proforma Respondent and when involved indirectly the MSPCB answers through the State Government.

The following table highlights on the subject matter and involvement of the MSPCB in cases pending in the High Court 2017-2018

Sl. No.	Name of the Case	Subject Matter	Involvement
1.	P.I.L. No. 8 OF 2017/1913-Smti Isrin Mawnai & Anr Vs State of Meghalaya & Ors	Turbidity in the Umran river at Ri - Bhoi	MSPCB was direct Respondent
2	Pil no. 10/2018 Court on its Own Motion vs State of Meghalaya	Greater Shillong Water Supply Scheme	MSPCB was direct Respondent
3	Pil no. 14 of 2018 Shri. Riton Sun vrs State of Meghalaya & Ors	Umran Diary situated in Umsning, Ri – Bhoi District, Meghalaya	MSPCB was direct Respondent
4	Pil No 2 of 2019 "distribution of LPG Cylinders in the State of Meghalaya" Vrs State of Meghalaya	LPG storage and bottling capacity at Umiam, Ri Bhoi District	MSPCB was direct Respondent

In P.I.L. No. 8 OF 2017/1913-Smti Isrin Mawnai & Anr Vs State of Meghalaya & Ors, Pil no. 10/2018 Court on its Own Motion vs State of Meghalaya , Pil no. 14 of 2018 Shri. Riton Sun vrs State of Meghalaya & Ors and in Pil No 2 of 2019 “distribution of LPG Cylinders in the State of Meghalaya” Vrs State of Meghalaya, the MSPCB answers directly in the High Court.

12.1.4: Case Disposed

Sl. No.	Name of the Case	Subject Matter	Involvement
1.	W.P.(C) No. 12 (SH) of 2005, Shri. Ronald Rikman Sangma .Vs. The State of Meghalaya & Ors	Closure Notice of MSPCB on Hotel of Petitioner Shri. Ronald Rikman Sangma, Tura.	Direct Respondent. The matter was disposed.
2.	PIL No. (SH) 5 of 2012, The Hima Langrin Youth Welfare Organisation .Vs. Sate of Meghalaya & Ors.	Unscientific mining and explosives causing pollution of the water resources, ecological imbalance and agricultural resources in Langrin Syiemship.	Direct Respondent –The matter was disposed.
3.	PIL Suo Moto No. (SH) 4/2012. Threat to life and Environment arising out of Cement Plant in Jaintia Hills District Vs. State of Meghalaya & Ors. Gauhati High Court , (Shillong Bench)	Cement Plants in Jaintia Hills	Direct Respondent The matter was disposed.

4.	PIL No.88/2010, Shri Sawang Lamurong & Ors. Vs. State of Meghalaya & Ors. Gauhati High Court , (Shillong Bench).	Coal Mining in Deishalalu, Jaintia Hills.	MSPCB was direct Respondent- filing affidavit and complying to the directions of the court. The matter was disposed.
5	CrI.Petn 31/2015-Meghalaya Agrovet Pvt Limited Vs State of Meghalaya & Ors	Pollution and contamination of Umtrew River by the waste products and other chemical release by Meghalaya Agrovet Pvt Ltd.	Direct Respondent The matter was disposed.
6	W.P (C) No.251 of 2013 M/s Dyna Roof P Ltd Vs State of Meghalaya & Ors	Central Sales Tax collected by way of subsidy granted by the State by the Petitioner Industry	The matter was disposed.
7	Writ Petition (Civil) No.322 of 2017 -Stephen Ch. Sangma Vrs State of Meghalaya	Solid Waste Management	The matter was disposed.

12.2: CASES IN THE COURT OF THE DEPUTY COMMISSIONER, RI BHOI DISTRICT, NONGPOH.

Sl. No.	Name of the Case	Subject Matter	Involvement
1.	CrI.Petn 31/2015-Meghalaya Agrovet Pvt Limited Vs State of Meghalaya & Ors	Pollution and contamination of Umtrew River by the waste products and other chemical release by Meghalaya Agrovet Pvt. Ltd.	Complying to directions from time to time. The matter was disposed.

12.3: CASES IN THE NATIONAL GREEN TRIBUNALS

Since the inception of the National Green Tribunal (NGT), cases involving the MSPCB had been mostly filed in the Tribunals. The NGT had constituted Zonal Benches for hearing cases in the Eastern Zone, in the Western Zone, in the Southern Zone and the Central Zone. The Principal Bench sometimes carries out Circuit Benches in the different States of India in matters having direct connection with the concerned state for quick disposal of the same.

The MSPCB apart from cases in the Principal Bench and Eastern Zone Bench at Kolkata, it also had some cases in the Circuit Bench at the Meghalaya High Court, Shillong. The following tables display the cases in their nature of involvement in different benches:-

CASES IN THE NATIONAL GREEN TRIBUNAL
12.3.1: PRINCIPAL BENCH, NEW DELHI

Sl. No.	Name of the Case	Subject Matter	Involvement
1.	Appl. No.37/2013 (THc). Wassan Singh Vs. State of Punjab & Ors.	Noise Pollution and industries running without Consents from Pollution Control Boards.	Complying to directions from the Tribunal and submitting / reporting through the CPCB.
2.	Org. Appl. No.171 of 2013. National Green Tribunal Bar Association Vs. MoEF & Ors.	Removal of minerals from river beds (sand mining)	Complying to directions of the Tribunal coming through the CPCB and the State Govt. (Forest & Environment Department)
3.	Appl. No. 199/2014, Almitra H. Patel & Anr. Vs. Union of India & Ors.	Municipal Solid waste Management	Complying to directions of the Tribunal and submitting reports through the CPCB.
4.	Original Application No.124/2014 & Misc Application No.55/2014 Money Goyal & Ors Vrs MoEF & Ors	Plastic Waste	Furnished required information through the CPCB
5.	Original Application No.117 of 2014 Shantanu Sharma Vrs Union of India & Ors	Fly Ash and its disposal	Direct Respondent and filing Affidavits.
6.	OA No.102 of 2014- Sandplast(India) Ltd & Anrs Vrs Ministry of Environment & Forest & Ors	Fly Ash	Direct Respondent and filing affidavit in answering the Tribunal
7.	OA No.21 Of 2014-Vardhaman Kaushik Vrs Union of India & Ors and OA No.95 Of 2014- Sanjay Kulshrestha Vrs Union of India & Ors	Air Pollution and steps taken for prevention and control of Air Pollution	Replies and complies to directions of tribunal.
8.	Original Application No. 110(THc)/ 2012, Threat to Life Arising Out of coal Mining in South Garo Hills District .Vs. State of Meghalaya.	30 coal laborers trapped in a coal mine, 15 escaped and 15 reported to have died inside the coal mine.	Direct Respondent - filing affidavits and complying to directions of the tribunal.
9.	Appl. No. 13 of 2014, Impulse NGO Network Vs. State of Meghalaya & Ors.	Illegal Mining activities in about 5000 coal mines and about one lakh quarries in Jaintia Hills District of Meghalaya.	Committee Headed by Retd. Judge Guwahati High Court, Justice B.P. Katakey has been form to submit a report on the execution of the Order of the tribunal.
10.	Appl. No. 73 of 2014, All Dimasa Students Union dima Hasao Dist. Committee Vs. State of Meghalaya & Ors.	Illegal mining in Jaintia Hills, causing acidity of the river Koopily consequently eroding the turbines of the Hydro Power Plant at the said river.	

11.	Appl. No. 186/2014. Thomas Nongtdu & Anr. Vs. The State of Meghalaya & Anr.	Coal Mining, transporting the extracted coal & Mining Plan	
12.	Original Application NO.287/2017-R.K.Momin Vs State of Meghalaya & Ors	Coal Mining	Direct Respondent
13.	Org. Appl No. 593 of 2017 in W.P. (Civil) No. 375 of 2012 Paryavaran Suraksha Samiti & Anr Vs Union of India & Ors	NGT, Delhi follows up the State Pollution Control Boards on Order/ Direction of the Supreme Court.	MSPCB files affidavits submitting reports of actions taken on Order/Directions of the Supreme Court to the Tribunal
14.	Original Application No. 247 of 2017 (M.A. No. 469 of 2017) Central Pollution Control Board Vs. State of Andaman & Nicobar & Ors.	Plastic Waste Management Rules	Direct respondent- filed affidavit and files Action taken Report to CPCB.
15.	O.A. 200/2014 M.C. Mehta Vs Union of India & Ors	Prevention and control of pollution of river Ganga and its Tributaries.	The matter was being processed in light of O.A.606/2018 and the ('River Rejuvenating Committee').
16.	Satish Kumar Vs UOI & Ors and Mahavir Singh Vs UOI & Ors. (O.A No 56/2013 and O.A No 57/2013	Order DT. 20-07-2018 – appointing a person of legal background in SPCBs.	Answering through the State Government.
17.	OA No 723/2017 Prakash Nidhi Sharma Vs Union of India & Ors	Pyrolysis Oil Plants (TPOs)	MSPCB answered through CPCB
18.	O A No 432/2015 Ashwini Kumar & Ors vs Union of India & Ors	Save and conserve critically endangered indigenous species of livestock	Direct Respondent and filing Affidavits.
19.	Original Application No. 804/2017 Rajiv Naryana & Anr. Vs Union of India & Ors.	Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016. Setting up of TSDF and taking immediate action against erring units by the concerned authorities / regulatory bodies.	MSPCB answered through the CPCB
20.	Original Application No. 606/2018 Solid Waste Management Rules, 2016	Solid waste management and allied issues	MSPCB answered through the State Government
21.	Original Application No. 24/2018/EZ, Ambarnath Sengupta Vrs State of West Bengal & Ors	Immersion of idols	MSPCB answered through the State Government

22.	OA NO. 673/2018 News item published in "the Hindu" Authored by shri jacob koshy titled " More River Stretches are now Critically Polluted : CPCB"	Pollution of river Stretches	State Committee formed as per directions. MSPCB was member.
23.	O.A. NO 529/2018 Sou Motu proceedings initiated against the unscientific accumulation of waste leading to environmental pollution and health problem vs State of Kerala & Ors	Disposal of wastes by the State Government, Municipal Corporations, Municipalities, Gram Panchayat	Matter transferred to the Committee of O.A. 606/2018
24.	O.A. No. 48/2016 Vivek Tyagi Vs State of U.P. & Ors.	To prevent discharge of untreated sewage in water bodies, including ponds and Uppar Ganga Canal, endangering public health in Niwari town, 20 kms from Ghaziabad.	MSPCB answered through the State Government
25.	O.A. NO. 52/2015(WZ) Bhagwan Bhadale & Anr. Vs the Commissioner, PMC & Ors.	Solid Waste Management Rules, 2016	MSPCB answered through the State Level Committee.
26.	O.A. NO. 681/2018 News Item published in "the times of India" authored by Shri. Vishwamohan titled " Nacp with multiple timelines to clean air in 102 cities to be released around august 15"	Remedial measures to be taken to bring the air quality of 102 cities identified as 'non-attainment cities'	State Committee formed as per directions. MSPCB was member.
27.	O.A. No 843/2018 Sardar Patel Jan Chetna Education Society Vs State of Haryana & Ors	Directing the Director of Environment Haryana to take steps to specify the distance of stone crushers from educational institutions.	MSPCB answered through CPCB

12.3.2: CASES DISPOSED

Sl. No.	Name of the Case	Subject Matter	Remarks
1.	Application No.498 of 2015- Pushp Saini vs MOEF & ORS	Hydro Power Project	Matter got disposed
2.	Original Application No.605 of 2017 CPCB Vs Thermal Power Plants & Ors.	Parameters as well as maintenance and running of plant/industry	Matter got disposed

12.3.3: NGT EASTERN ZONE, KOLKATA

Sl. No.	Name of the Case	Subject Matter	Involvement
1.	Appl. No. 42 (THc) of 2014, (WP(C) Suo Moto 76/2012 of Meghalaya High Court, Environmental Pollution & Health Hazard in the State Vs. State of Meghalaya & Ors.	Based on a performance audit CAG Report on MSPCB that was printed in the media.	Direct Respondent- implementing the directions of the tribunal and filing affidavits.
2.	Appl. No. 146 of 2014. Nababrata Bhattacharjee Vs. State of Meghalaya & Ors.	Pollution of the River Umkhrah & Umshyrpi.	
3.	O.A No.15/2016/EZ Shri James Roy Kurbah vs Shillong Municipal Board & Ors	Pollution of the river Wah-Umshyrpi.	
4.	Original Application NO.172/2016/EZ- Sajay Laloo Vs State of Meghalaya & Ors.	Contamination of river Myntdu, Jowai	Direct Respondent- carrying directions of the tribunal and filing affidavits.
5.	Misc.Application No, 121/2017/EZ in W.P(C) No.375/2017(SC)-Paryavaran Suraksha Samiti & Anr Vs Union of India & Ors	Making the primary Effluent Treatment Plant fully operational within 3(three) months from the date of Judgment i.e. 22.02.2017	Matter came out and got disposed on the same Financial Year i.e. 2016-2017 but the MSPCB files affidavit from time to time in the Tribunal reporting the actions taken by it in compliance to the direction of the Judgement.
6.	O.A. No. 93/2017/EZ- GREATER LABAN COMMUNITY DEVELOPMENT SOCIETY (GLCDS) VS STATE OF MEGHALAYA & ORS	Felling of trees and illegal construction of boundary wall Alleged encroachment of undeclared Critical Catchment Area in Lawsohtun Forest, Shillong by Secretary, Defence, Union of India	MSPCB had filed affidavit submitting report inspection & Water quality of the Water bodies
7.	Original Application No.158/2016/EZ - Subhas Datta Vs State of West Bengal & Ors.	Noise Pollution	MSPCB had issued a Public Notice in the month of November, 2017 whreby all the service providers letting out Audio/Sound system to fit the systems with sound limiters before being let out the sound systems so as to maintain the ambient noise within the prescribed limit of the Noise Pollution (Regulation and Control) Rules 2000

12.3.4: CASES DISPOSED

Sl. No	Name of the Case	Subject Matter	Remarks
1.	OA. No. 76/2015/EZ Joydeep Mukherjee Vrs MSPCB Shillong	Brick Kiln	Matter disposed
2.	Appeal No. 07/2016/EZ- Pinewood Hotel & Ors vrs MPSCB & Ors	Closure notice of the said hotel.	Matter disposed
3.	Appeal No. 08/2016/EZ-Orchid Lake & Ors Vrs MPSCB & Ors	Closure notice of the said hotel	Matter disposed
4.	Appeal No. 09/2016/Ez-State Convention Centre & Ors Vrs MPSCB & Ors	Closure notice of the said hotel	Matter disposed
5.	Original Application. NO.95/2016/EZ- Orchid Hotel & Ors Vrs MPSCB & Ors	Closure notice of the said hotel	Matter disposed
6.	(MA 1087,1088,1089,1090 & 1091/2016/EZ) IN O.A NO.42/THC/ 2014/PB/5/EZ- Ri kynjai Serenity, Royal Heritage Tripura Castle Hotel Centre Point- Vs-Environment Pollution & Health Hazard In the State & Ors	Closure notice of the said hotel	Matter disposed

12.4: NGT WESTERN ZONE, PUNE

Sl.No	Name of the Case	Subject Matter	Involvement
1.	Execution Application No. 03/2017 in Application No. 39 of 2013 (WZ) Dileep B. Nevatia – Vrs – Ministry of Road Transport & Highways & Anr	Noise Pollution from vehicles and Air Pollution emitted by vehicles	Complying to the directions of the Hon'ble NGT court from time to time.

12.5: CASES FILED IN THE DISTRICT COURTS OF MEGHALAYA

The NGT, Eastern Zone Bench, Kolkata in its various orders of the cases pending before it mentioned above had directed that the MSPCB take Legal action against the defaulting industries which defaulted beyond the directions under section 33A of the Water (Prevention and Control of Pollution) Act, 1974 and section 31A of the Air (Prevention and Control of Pollution) Act, 1981 were complained before the Magistrate First Class of concerned Districts as empowered under Chapters VII of the Water (Prevention and Control of Pollution) Act, 1974 and Chapter VI of the Air (Prevention and Control of Pollution) Act, 1981.

The following are the Complaints before the District Courts:

Sl. No	Name of the Case	Subject Matter	Involvement
1.	Meghalaya State Pollution Control Board –Vrs- Swish Cafe	Violation of the terms and conditions of the Consent granted by the Board	Complainant
2	C.R. No. 4/2017 Meghalaya State Pollution Control Board – Vrs – M/s Shree Sai Prakash (P) Ltd	Operating the firm without valid consent from the complainant and for installing the dis – functional Pollution Control Device	Complainant
3.	C.R. No. 5/2017 Meghalaya State Pollution Control Board – Vrs – M/s Shree Sai Smelters (P) Ltd	Operating the firm without valid consent from the complainant and for installing the dis – functional Pollution Control Device	Complainant

12.5.1: CASE DISPOSED

Sl.No	Name of the Case	Subject Matter	Involvement	Status
1.	C.R. Case No. 8/2017 Meghalaya State Pollution Control Board – Vrs – Para Diso Hotel	Running the hotel without obtaining consent from the Board	Complainant	Disposed
2.	C.R. Case No. 9/2017 Meghalaya State Pollution Control Board – Vrs – Broadway Hotel	Running the hotel without obtaining consent from the Board	Complainant	Disposed
3.	C.R. Case No. 10/2017 Meghalaya State Pollution Control Board – Vrs – Starline Hotel	Running the hotel without obtaining consent from the Board	Complainant	Disposed
4	Meghalaya State Pollution Control Board – Vrs – M/s Kharkongor Enterprise	Violation of the terms and conditions of the Consent granted by the Board	Complainant	Disposed

The Cases above were disposed in favour of the MSPCB

CHAPTER – XIII

FINANCE & ACCOUNTS

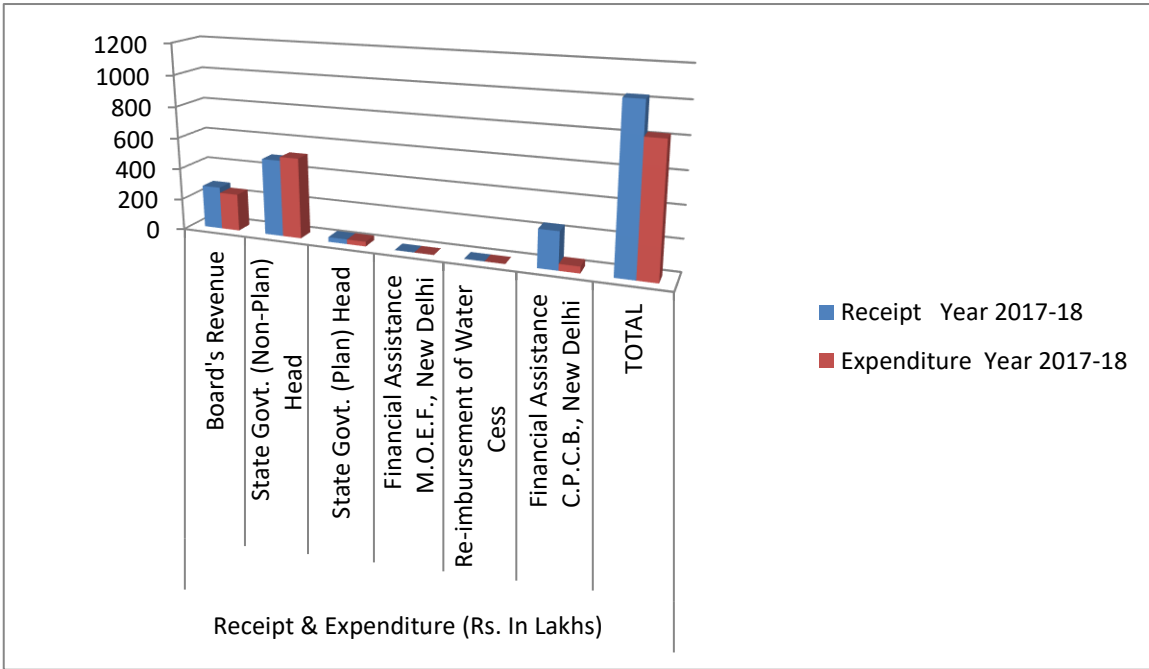
The unaudited financial summary for the financial year 2017-18 reveals that during the said period, the State Board received a total amount of Rs.1028.20 Lakhs and total expenditure is Rs.822.40. The State Board earned its total revenue from different industrial units in Meghalaya on account of Consent Fees, Sale of Forms, Authorization fees Biomedical/Hazardous Waste, Vehicle Emission Test, Water Sample Analysis etc. and also Water Cess Re-imburement, Non-Plan Grants from State Government was utilized for payment of Pay and Allowances to the Officers and Staff. Plan Grants was received from State Government for various development activities. Grants and financial assistance was received from Ministry of Environment and Forest and Central Pollution Control Board, New Delhi for different projects and schemes.

The financial summary of the Board during the year 2017-2018 is as shown in the table below:

Status of Unaudited Financial Summary for the Financial Year 2017-18			
Sl. No.	Head of Accounts	Amount Rs. (in Lakhs)	
		Receipt	Expenditure
	Board's Revenue		
1	i. (Boards Revenue) Consent Fees ,Sale of Forms, Authorization fees Biomedical/Hazardous Waste, Vehicle Emission Test, Water Sample Analysis etc.	238.60	237.64
	ii. Bank interest	32.97	
	Sub Total 1.(i to ii)	271.57	237.64
	State Govt.(Non-Plan) Head		
2	i. Grant -in-Aid ,from State Govt.(Non-Plan) for Pay & Allowances	418.93	443.00
	ii. Grant -in-Aid ,from State Govt.(Non-Plan) Non Salaries	70.00	70.19
	Sub Total 2.(i to ii)	488.93	513.19
3	State Govt. Plan Head		
	Grant -in-Aid, from State Govt.(Plan)	30.00	29.57
	M.O.E.F., New Delhi		
4	i. Grant-in-Aid, Financial Assistance from Ministry of Environment & Forests , New Delhi	0.00	0.00
5	ii. Re-imburement of Water Cess	0.00	0.00
	C.P.C.B., New Delhi		
6	iii. Grant, Financial Assistance from Central Pollution Control Board , New Delhi	237.70	42.00
	Sub Total 4 to 6 (i to iii)	237.70	42.00
	Total	1028.20	822.40

Excess Of Receipt over Expenditure

Fig. 13.1: Receipt & Expenditure during 2017-2018



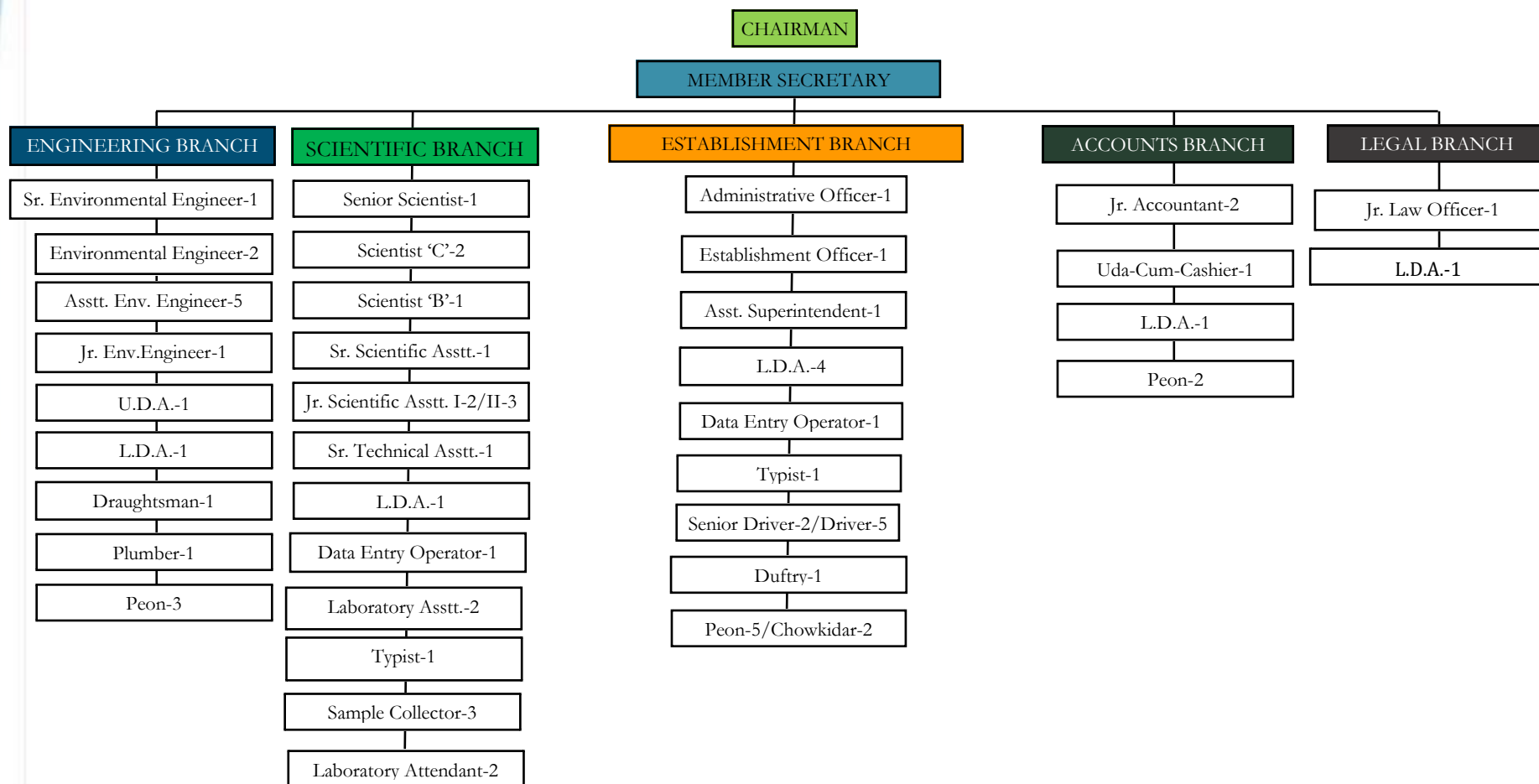
ANNEXURE-1

**STAFF POSITION OF THE MEGHALAYA STATE POLLUTION CONTROL BOARD
AS ON 31.03.2018**

BRANCH	SL. No.	NAME OF THE POST	SANCTIONED STRENGTH	WORKING STRENGTH	VACANCY
TECHNICAL	1.	SENIOR ENVIRONMENTAL ENGINEER	1	1	0
	2.	ENVIRONMENTAL ENGINEER	2	2	0
	3.	ASSTT.ENVIRONMENTAL ENGINEER	5	5	0
	4.	JUNIOR ENVIRONMENTAL ENGINEER	1	1	0
	5.	DRAFTSMAN	1	1	0
	6.	TRACER	1	0	1
	7.	PLUMBER	1	1	0
LEGAL	1.	LEGAL OFFICER/ADVISER	1	0	1
	2.	JUNIOR LAW OFFICER	1	1	0
SCIENTIFIC	1.	SENIOR SCIENTIST	1	1	0
	2.	SCIENTIST-C	2	2	0
	3.	SCIENTIST-B	3	0	3
	4.	SENIOR SCIENTIFIC ASSTT.	3	1	2
	5.	JUNIOR SCIENTIFIC ASSTT' Gd I	4	2	2
	6.	JUNIOR SCIENTIFIC ASSTT' Gd II	3	3	0
	7.	SENIOR TECHNICAL ASSTT.	1	1	0
	8.	TECHNICAL ASSTT.	2	0	2
	9.	LABORATORY ASSTT.	4	2	2
	10.	STORE KEEPER	1	0	1
	11.	FIELD ATTENDANT	1	0	1
	12.	SAMPLE COLLECTOR	10	3	7
	13.	LAB. ATTENDANT	4	2	2

ADMINISTRATION & ACCOUNTS	1.	ADMINISTRATIVE OFFICER	1	0	1
	2.	FINANCE & ACCOUNTS OFFICER	1	0	1
	3.	PERSONAL ASSISTANT TO CHAIRMAN	1	0	1
	4.	RESEARCH OFFICER (Eco & Stat)	1	0	1
	5.	SENIOR ACCOUNTANT	1	0	1
	6.	ESTABLISHMENT OFFICER	1	1	0
	7.	ASSTT. SUPERINTENDENT	1	1	0
	8.	JUNIOR ACCOUNTANT	2	2	0
	9.	STATISTICAL ASSTT.	1	0	1
	10.	STENOGRAPHER	1	1	0
	11.	UPPER DIVISIONAL ASSTT.	4	4	0
	12.	P.A TO MEMBER SECRETARY	1	0	1
	13.	L.D.ASSTT	12	9	3
	14.	DATA ENTRY OPERATOR	2	2	0
	15.	TYPIST	4	2	2
	16.	LIBRARY ASSTT.	1	0	1
	17.	SENIOR DRIVER/DRIVER	10	7	3
	18.	PEON	19	13	6
	19.	MALI	1	0	1
	20.	DUFTRY	1	1	0
	21.	HANDY MAN	1	0	1
	22.	CHOWKIDAR	3	2	1
	23.	CLEANER	2	1	1
	24.	SWEEPER	2	1	1
TOTAL			127	76	51

ORGANISATIONAL CHART



ANNEXURE-3

**CONSENT TO ESTABLISH/CONSENT TO OPERATE ISSUED DURING THE YEAR
2017-2018**

Sl. No.	Name of Industry	Location of the Industry/Unit	Type of Unit	Date of Issued of	
				CTE	CTO
1	M/s Evergreen Auto Works	Demthring, Nongthymmai, Shillong	Automobile Workshop	06-03-18	N/A
2	M/s Sunshine Lalo Workshop	Mawblei, Madanriting, Shillong	Automobile Workshop	05-03-18	N/A
3	M/s Fresh Car Wash	Mawlai Nongkwar, Shillong	Automobile Servicing Unit	05-03-18	N/A
4	M/s North East Institute of Ayurveda & Homeopathy (NEIAH)	Mawdiangdiang, Shillong	Sewage Treatment Plan & Effluent Treatment Plant	16-02-18	N/A
5	M/s S. K Car wash	Demthring, Nongthymmai, Shillong	Automobile Servicing Unit	07-02-18	N/A
6	M/s O.B. Hotel	Laitumkhrah Shillong	Hotel & Restaurant	29-07-11	04-05-17
7	M/s Pash K Re Guest House	Bishop Cotton Road, Shillong	Guest House	08-03-17	07-04-17
8	M/s Jubilant Foodworks Ltd (Domino Pizza)	Thana Road, Shillong	Restaurant	30-06-14	14-12-17
9	Bethany Hospital	Nongrim Hills, Shillong.	Hospital	17-01-12	23-06-17
10	M/s Lafarge Umiam Mining Pvt. Ltd.	Nongtraï, Shella	Limestone Mine	30-11-16	16-06-17
11	M/s Nazareth Hospital	Laitumkhrah, Shillong	Hospital	07-12-16	25-09-17
12	M/s Heal & Smile Dental & Medical Centre	Laitumkhrah, Shillong	Diagnostic Centre	10-06-16	30-10-17
13	M/s Jubilant Foodworks Ltd.	Laitumkhrah, Shillong	Food Processing unit (DOMINOS PIZZA)	07-08-16	06-06-17
14	M/s Ashirwaad Sweets	Laitumkhrah, Shillong	Tea Stall	04-10-17	17-11-17
15	M/S Sanker Rehabilitation Centre	Mawlai Mawroh, Shillong	Hospital	23-01-17	04-10-17
16	M/s Hotel Poinisuk	Laitumkhrah, Shillong	Hotel & Restaurant		04-05-17
17	M/s Café Eat HOTBOX RESTAURANT	Police Bazar, Shillong	Restaurant	01-11-16	13-06-17
18	M/s Hotel Aashiyana	Quinton Road, Police Bazar	Hotel	03-08-16	04-05-17
19	M/S K.D ENTERPRISE	Garikhana, Shillong	Package Mineral/Drinking Water	06-02-17	14-08-17

20	M/s Frank Yamaha	Nongshiliang, Nongthymmai, Shillong	Two Wheelers Servicing	13-07-17	25-07-17
21	M/s LADY BIRD LODGE	Umsohsun, Shillong	Hotel	07-03-17	04-07-17
22	M/s Woodland Hospital	Dhankheti, Shillong	Hospital	02-12-16	06-09-17
23	M/S UNIQUE SWEETS & SNACKS	Dreamland Arcade, Police Bazar, Shillong	Restaurant	10-03-17	04-04-17
24	M/s Hotel Serene	G.S. Road, Police Bazar, Shillong	Hotel	29-07-16	17-04-17
25	M/s Living Roof Guest House & Café	Anders-153, Bomfyle Road, Shillong	Hotel & Café	18-05-16	14-08-17
26	M/s Hotel Natraj	Quinton Road, Shillong	Hotel	18-11-16	04-05-17
27	M/s Woodland Guest House	Upper Lachumiere, Shillong	Guest House	29-04-17	22-05-17
28	M/s Rajhans Hotel	G. S. Road, Police Bazar	Hotel	03-08-16	02-06-17
29	M/s J. W. Car Wash	Pynthorbah, Shillong	Automobile Servicing Unit	08-03-17	02-08-17
30	M/s Muiong Limestone Quarry 2.26 Ha	Muiong, Shella Village	Limestone Mine	19-01-18	06-02-18
31	M/s Heiga Hotel	Upper Lachumiere	Hotel & Restaurant	29-04-17	23-01-18
32	M/s P. Khongstia Stone Crusher	Laitkroh	Stone Crusher	13-10-11	23-03-17
33	M/s Madras Café	Jail Road, Police Bazar	Restaurant	16-12-16	12-10-17
34	M/s North Eastern Institute of Ayurveda & Homeopathy	Mawdiangdiang, Shillong	DG Set	30-08-16	20-06-17
35	M/s Julius Nongkhlaw Automobile Workshop	Sadew Village	Automobile Workshop	29-08-16	06-07-17
36	M/s Hotel Golden Peak "The Quad"	Malki, Shillong	Hotel	27-09-16	02-08-17
37	N.E.I.G.R.H.M.S	Mawdiangdiang, Shillong	Bio-Medical Waste Incinerator	11-03-14	24-07-17
38	M/s Shaurya Inn	Police Bazar, Shillong	Hotel	29-07-16	24-07-17
39	M/s Eva Kurbah HPT Orchid Resort	Mawsmi, Sohra	Hotel & Restaurant	27-06-16	24-07-17
40	M/s Syed Auto Workshop	Keating Road, Shillong	Two Wheeler Auto Workshop	20-07-17	21-07-17
41	M/s Hotel Heritage	Police Bazar, Shillong	Hotel	28-04-16	11-05-17
42	M/s R.K'S City Hub	Police Bazar, Shillong	Hotel	26-04-16	05-05-17
43	M/s Delhi Hotel	Police Bazar, Shillong	Hotel	11-08-16	25-04-17

44	M/s Nats Restaurant	Laitumkhrach, Shillong	Restaurant	21-03-14	16-06-17
45	M/s Hope Diagnostic Centre	Mawlai Mawdatbaki, Shillong	Diagnostic Centre Cum Clinic	28-03-07	06-04-17
46	M/s Bathyngkai Automobile Workshop	Mawlai Phudmuri, Shillong	Automobile Workshop	24-03-14	25-07-17
47	M/s Oxford Engineering Works	Kench's Trace, Shillong	Automobile Workshop	21-06-17	31-01-18
48	M/s Orange Automobile	Laitkor Rngi, Shillong	Automobile Workshop	04-08-17	N/A
49	M/s Riskhem Auto Servicing Centre	Mawshun, Pynursla	Automobile Servicing Unit	14-08-17	N/A
50	M/s Shanki Workshop	Laitkor, Shillong	Automobile Workshop	15-11-17	N/A
51	M/s Jeffrey Wanrap Car Servicing Unit	Pynthorbah	Automobile Servicing Unit	02-08-17	N/A
52	M/s S. Automobile Workshop	Demseiniong, Shillong	Automobile Workshop	25-07-17	N/A
53	M/s Shillong Automobile	Demsieniong, Shillong	Automobile Workshop	25-07-17	N/A
54	M/s B. Car Wash	Mawlai Nongpdeng, Shillong	Automobile Servicing Unit	25-07-17	N/A
55	M/s New Town Guest House	Mawdiangdiang, Mawbeh	Guest House	24-07-17	N/A
56	M/s Highwinds Apartment	Anders-163, Bomfyle Road, Shillong	Guest House	24-07-17	N/A
57	M/s Lake View Complex	Umiam, Shillong	Resort	19-07-17	N/A
58	M/s K.M. Autozone (Multi Brand Car Workshop)	Sawlad, Shillong	Automobile Workshop	18-07-17	N/A
59	M/s Sparkle Dental Clinic	Anderson Arcade, Laitumkhrach	Dental Clinic	14-09-17	N/A
60	M/s E. Nongspung Car Wash	Langkyrding, Shillong	Automobile Servicing Unit	01-06-17	N/A
61	M/s Barukh Bakery & Confectionary	Nongkhyriem, Nongthymmai	Bakery & Confectionary	17-05-17	N/A
62	M/s Bishnu Maya Thapa Tea Stall 7 Sweet Meat	Police Bazar, Shillong	Tea Stall	11-05-17	N/A
63	M/s Sonar Tori Restaurant	Jail Road, Shillong	Restaurant	05-05-17	N/A
64	M/s Jubilant Foodworks Ltd.	Thana Road, Police Bazar	Restaurant	07-04-17	N/A
65	Maxim Infrastructure & Real Estate (SMB Complex)	Shillong	Hotel cum Office Complex	30-04-17	N/A
66	M/s Batyngkai Automobile Workshop	Mawlai Phudmuri, Shillong	Automobile Workshop	24-03-14	25-07-17

67	M/s Red Rice Restaurant	Police Bazar, Shillong	Restaurant	16-12-16	07-11-17
68	M/s Nongrum Car Wash	Tiehsaw, Nongstoin	Automobile Servicing Unit	28-03-18	N/A
69	M/s Marwein Fruits & Beverages	Kynshi Bangla, West Khasi Hills District	Packaged Mineral/Drinking Water Unit	16-11-15	21-07-17
70	M/s Holy Cross Health Centre	Mairang	Hospital	10-01-17	13-07-17
71	M/s Donbosco Khardewsaw Workshop	Upper New Nongstoin	Automobile Workshop	05-06-17	31-10-17
72	M/s Bethany Hospital Outreach	Nongpoh	Hospital	24-04-15	03-08-17
73	M/s Umduba Stone Quarry of Jamda Sangma	Umduba, Killing	Stone Quarry	23-08-17	27-09-17
74	M/s Megwood Solutions Pvt. Ltd.	15th Mile, Byrnihat	Briquettes Unit	31-04-17	15-05-17
75	M/s Barapathar Stone Quarry	Barapathar	Stone Quarry	03-10-17	02-11-17
76	M/s Maikhuli Stone Quarry 2.95 Ha	Maikhuli	Stone Quarry	03-10-17	02-11-17
77	M/s Uranus Stone Production & Co	Umduba, Killing	Stone Quarry	30-10-17	31-10-17
78	M/s Vedanta Stone World	Killing Raid Marwet	Stone Crusher	31-01-18	05-02-18
79	M/s Ecopure Stone Crusher	Umduba Killing, Raid Marwet	Stone Crusher	15-02-18	21-03-18
80	M/s Megha Stone Crusher	Jorbid, Killing, Ri-Bhoi District	Stone Crusher	20-07-15	06-02-18
81	M/s Lumduba Stone Quarry 4.3 Ha	Killing Umduba Village	Stone Quarry	04-01-18	25-01-18
82	M/s Megha Beverages	Umtru Road, Byrnihat	Soft Drink Bottling Unit	22-02-17	09-06-17
83	M/s Mawroh Concrete & Paver	Killing, Umduba, Ri-Bhoi District	Concrete Paver Blocks Manufacturing Unit	12-01-16	26-05-17
84	M/s Twelve Baskets	13th Mile, Tamulkuchi, Byrnihat	Carbonized Briquettes Manufacturing Unit	06-11-15	05-07-17
85	M/s Mawlong Saw-Cum-Veneer Mill	Umiam Industrial Estate	Saw Mill	08-07-2008	04-07-17
86	M/s Girik Briquettes Pvt. Ltd.	Umiam Industrial Area, Umiam	DG sets	29-04-17	30-03-17
87	M/s Northeast Tabular Poles	Umiam Industrial Area, Umiam	DG sets	29-04-17	30-03-2017
88	M/s Uranus Stone Products & Co.	Killing, Raid Marwet	Stone Crusher	30-04-17	31-03-17

89	M/s Ampynsengura Stone Mining	In-Mouza-Halem Gonpatto, Jirang	Stone Quarry	29-12-17	29-01-18
90	M/s Umduba Stone Quarry of Shri Samuel Jahrin	Jorbil Killing	Stone Quarry	06-02-18	21-03-18
91	M/s Halem Gonpati Boulder Stone Quarry	In-Mouza-Halem Gonpatto, Jirang	Stone Quarry	29-12-17	29-01-18
92	M/s Muroh-Rim Stone Quarry (2.36 Acres)	Iew Muroh-Rim	Stone Quarry	19-01-18	21-02-18
93	M/s Io-Muroh Stone Quarry	Amjow Shrei Jirang	Stone Quarry	19-01-18	21-02-18
94	M/s Marathon India Ltd.	Umiam Industrial Estate, Ri-Bhoi District	Battery Assembly Unit (NiCd/NiMh/Primary/Li-ion/Li-ion polymer battery)	08-12-15	12-01-18
95	M/s Shillong Fresh Water	Paham Mawlein, 20th Mille	Package Drinking Water Unit	05-07-17	N/A
96	M/s Meghalaya Infratech Pvt. Ltd.	Khanapara	Hotel-Spa (Five Star)	31-04-17	N/A
97	Williamnagar Civil Hospital	Williamnagar	Hospital	04-04-17	N/A
98	M/s Marak Pavers	Samanda, Rongkem	Stone Crusher & Cement Concrete Tiles & Pavers	12-03-18	30-04-18
99	M/s A.D.S. Abstainbirth Shira Brick Unit	Rongreng Baiza	Brick Kiln	20-06-17	N/A
100	M/s Foodies's World	Dakkopgre, Tura	Restaurant	17-01-18	N/A
101	M/s Sangma Servicing Centre	Dobasipara, Tura	Automobile Servicing Unit	17-01-18	N/A
102	M/s M.R.M. Stone Crusher	Manggapara, PO Zekabari	Stone Crusher	24-07-17	15-09-17
103	M/s Fridina Stone Crusher Unit	Chatibhui, Tura	Stone Crusher	07-02-17	09-05-17
104	M/s Panthi Stone Crusher	Beldarpara, Tura	Stone Crusher	29-03-17	21-06-17
105	M/s Sangma Stone Crusher	Tangoan, Dhanua	Stone Crusher	17-08-17	30-11-17
106	Tura Christian Hospital	Tura	Hospital	13-01-17	13-07-17
107	M/s Lutfor Rahman	Tangoan, Dhanua	Stone Crusher	04-08-17	14-08-17
108	M/s A. Stone Quarry Unit 1.28 Ha	Mangngapara, Zekabari	Stone Quarry	30-11-17	12-01-18
109	M/s Marak Stone Quarry	Mangngapara Zikabari	Stone Quarry	30-11-17	12-01-18
110	M/s G. Marak Stone Crusher	Bollonggree PO Dhanua	Stone Crusher	24-07-17	15-09-17
111	M/s Himbath M. Sangma	Champakpara	Stone Crusher	17-08-17	30-11-17
112	M/s Hotel Natraj	Ananda Math, Tura	Hotel	07-04-17	06-06-17

113	M/s A. Stone Crusher	Wakrugre	Stone Crusher	07-02-17	04-04-17
114	M/s P.K & Company Stone Crusher	Aphalgre	Stone Crusher	07-03-17	05-05-17
115	M/s Abdus Shahid Stone Crusher	Jewali	Stone Crusher	10-11-16	19-05-17
116	M/s Leo Car Wash	Wadanang, Tura	Automobile Servicing Unit	05-01-18	N/A
117	M/s Anamika Brick Field	Kharigoan, Tura	Brick Klin	25-07-17	N/A
118	M/s T.A.B. Bricks Industry	Gorbandh, Tura	Brick Kiln	25-07-17	N/A
119	M/S J.A.M. Bricks Industry	Wakantagre, Tura	Brick Kiln	25-07-17	N/A
120	M/s Islam Bricks Industry	Singwilgre, Tura	Brick Kiln	22-05-17	N/A
121	M/s Star Brick Industry	Wakntagre, Tura	Brick Kiln	22-05-17	N/A
122	M/S Raja Brand Brick Making Unit	Garodubi	Brick Kiln	22-05-17	N/A
123	M/S BSCPL Infrastructure 4.0 ha	Kilmangittim	Stone Quarry	20-04-17	N/A
124	M/s Holy Cross Hospital	Walbakgre, Tura	Hospital	30-01-17	21-06-17
125	M/s K.A.I. Cashewnut Industries	Nagabandh, Phulbari	Cashewnut Processing Unit	05-07-16	03-10-17
126	M/s Agarwal Cashew Processing Unit	Majhipara	Cashewnut Processing Unit	05-07-16	03-10-17
127	M/s M.A.S. Bricks Factory	Sonamati, Garobadha	Brick Kiln	27-10-16	07-12-17
128	M/s Baghmara Civil Hospital	Baghmara	Hospital	04-04-17	N/A
129	M/s I. A. Brick Industry	Ichakuri	Brick Kiln	19-12-17	N/A
130	M/s R.P.T. Bricks, Sonamite, Tura	Sonamite	Brick Kiln	07-12-17	N/A
131	M/s T.M. Automobiles	Latrigre, Sulguri	Automobile Workshop	28-08-17	N/A
132	M/s Warlistina Rymbai Car Wash	Umshangiar, Jowai	Automobile Servicing Unit	14-08-17	15-02-18
133	M/s Dr. Norman Tunnel Hospital	Jowai	Hospital	22-03-17	06-06-17
134	M/s P. B. Bang Car Wash	Salaroh Jowai	Automobile Workshop	11-01-18	N/A
135	M/s Haven's Cove	Kdongumkhrah, Panalial Jowai	Restaurant	28-07-17	N/A
136	M/s Orchid Inn, Thadlaskein, West Jaintia Hills	Thadlaskein	Hotel cum Restaurant	24-07-17	N/A

137	M/s Najjar Car Wash	Umshangiar	Automobile Servicing Unit	20-07-17	N/A
138	M/s Rangkupar Automobile Workshop	Mowkaiaw	Automobile Workshop	16-05-17	N/A
139	M/s Bashaihun Lapasam & Flourish Passah (FLOBA LAB)	Umilong	Clinical Laboratory	25-05-17	N/A
140	M/s Starline Fooding & Lodging	Iawmusiang, Hasahioo Tympang Club, Jowai	Hotel cum Restaurant		30-10-17

ANNEXURE-4
RENEWAL OF CONSENT TO ESTABLISH/CONSENT TO OPERATE ISSUED DURING THE YEAR 2017-2018

Sl. No.	Name of Industry	Location of the Industry/Unit	Type of Unit	Date of Issued for Renewal of	
				CTE	CTO
1	North Eastern Regional Load Despatch Centre	Power Grid Complex, Lower Nongrah, East Khasi Hills District	Power System Operation		31-07-17
2	M/s Sparkling Nongrum Stone Crusher	Lummawkaphar, Laitkroh	Stone Crusher		29-06-17
3	M/s Stay Inn Guest House	Keating Road, Shillong.	Hotel		28-09-17
4	M/s Lamee Multi-Cuisine Restaurant	G.S. Road, Khyndailad Police Bazar, Shillong	Restaurant & Lounge Bar		25-09-17
5	Airport Authority of India	Umroi	Airport		11-09-17
6	M/s The EEE CEE Hotel	Khyndailad Police Bazar, Shillong	Hotel		13-07-17
7	M/s Naz Restaurant	Mawlong Hat, Shillong	Restaurant		11-10-17
8	M/s Baba Tourist Lodge	G.S. Road, Police Bazar, Shillong	Hotel		25-09-17
9	M/s Chennai Junction	Near Khyndailad Police Bazar, Shillong	Restaurant		02-08-17
10	M/s Hongkong Restaurant	Police Bazar, Shillong	Restaurant		15-11-17
11	M/s Barbeque Chinese Restaurant	Police Bazar, Shillong	Restaurant		25-09-17
12	M/s Hotel Broadway	G.S. Road, Police Bazar, Shillong	Hotel		25-09-17
13	M/s City Hut Family Dhaba	Oakland Road, Shillong	Restaurant		25-09-17
14	M/s Bamboo Hut Restaurant	Kachari Road, Shillong	Restaurant		25-09-17
15	M/s Neolith Restaurant	Motphran, Shillong	Restaurant		15-11-17
16	M/s Earle Holiday Home	Oakland Road, Shillong	Guest House		15-11-17

17	M/s Meghalaya Cements Limited	Thangskai	Cement Plant Premises		05-09-17
18	M/s Hotel Rainbow	G.S. Road, Police Bazar, Shillong	Hotel		15-11-17
19	M/s Nongrum Motor Workshop	Lawmawrie, Shillong	Automobile Workshop	10-04-07	13-07-17
20	M/s Ri War Offset Press	4th Mile Upper Shillong, East Khasi Hills District	Offset Press		02-08-17
21	M/s Chyne & Lime Works	Lumpukir	Lime Kiln Unit	31-03-04	24-07-17
22	M/s Gregory Kharsai Lime Kiln	Laitryngew, Cherrapunjee	Lime Kiln Unit	28-11-01	24-07-17
23	M/s D. Pyngrope Workshop	Mawlai Nongkwar, Block-13, Shillong	Automobile Workshop		28-09-17
24	M/s Hubert Rynjah Car Servicing Centre	Lumheh Khyrim, Shillong	Automobile Servicing Unit		01-11-17
25	M/s Hotel Indiana	Police Bazar, Umsohsun Road, Shillong	Hotel		21-07-17
26	M/s Hotel Gate Way (formerly known as Silk Route Hotel & Resort Pvt. Ltd.)	Keating Road, Police Bazar, Shillong	Hotel & Restaurant		04-07-17
27	M/s B.K. Saw Cum Veneer Mill Pvt. Ltd.	12th Mile, Byrnihat, Ri-Bhoi District	Sawn-cum-Veneer Mill		04-10-17
28	M/s Meghalaya Cements Ltd.	Thangskai, East Jaintia Hills District	1500 KVD DG Sets (Cement Plant)		30-11-17
29	M/s Anderson Tea Estate	Umran Dairy, Ri-Bhoi District	2x25 KW Micro Hydel Project		20-09-17
30	M/S Hotel Seven Sisters	Police Bazar, Shillong	Hotel		15-11-17
31	M/s Roma Auto Centre	15 th Mile Nongthymmai, Ri-Bhoi District	Automobile Workshop		31-08-17
32	M/s Lafarge Umiam Mining Pvt. Ltd.	Nongtraï Shella	Limestone Mine		14-12-17
33	M/s Hotel Embassy	Police Bazar, Shillong	Hotel cum Restaurant		25-09-17
34	M/s Assembly Hotel	Police Bazar, Shillong	Hotel		08-11-17
35	M/s Hotel Rajtilak	Jail Road, Police Bazar, Shillong	Hotel		30-10-17
36	M/s Bonnie Guest House	145, Howell Road, Laban, Shillong	Guest House & Restaurant		20-06-17
37	M/s Urlong Tea	Mawlyngot, East Khasi Hills District	Tea Processing Unit		16-08-17
38	M/s Hotel Hill Star	Police Bazar, Near Dreamland Cinema Hall, Shillong	Hotel		31-01-18

39	M/s Jai Plastech Pvt. Ltd.	Umtru Power House, Raja Bagan, Byrnihat	Glass & Cups Disposable Manufacturing Unit		23-02-18
40	M/s Palomino Restaurant	Opp. St. Edmund's School, Shillong	Restaurant		31-01-18
41	Animal Husbandry & Veterinary Department	Mooralong, Ladthalaboh, Jowai	Central Dairy		16-01-18
42	M/s Lutfor Rahman	Tangoan, Dhanua	Stone Crusher		28-03-18
43	M/s NEIGRIHMS-Substation-I & II	Mawdiangdiang, Shillong	Hospital		20-03-18
44	M/s Vinayak Biscuits (P) Ltd	Nati Purong, 9th Mile, Baridua, Ri-Bhoi District	Biscuit Manufacturing Unit	05-05-15	25-07-17
45	M/s B. M. Passah Saw Cum Veneer Mill Pvt.	Khlieh Tyrchi, Industrial Area	Saw cum Veneer Mill		08-01-18
46	M/s Smoky Falls Coffee	Rngi Jynriew Rum Nongthymmai	Coffee Roasting, Grinding & Packing Unit		08-11-17
47	M/s Alwing Nongrum Auto Workshop	Upper New Nongstoin, West Khasi Hills District	Automobile Workshop		20-06-17
48	M/s Alwing Nongrum	Upper New Nongstoin, West Khasi Hills District	Automobile Workshop (Lathe Machine)		31-07-17
49	M/s Orianda Kharkongor	Madan Iing Syiem, Myllem, East Khasi Hills District	Stone Cutting & Polishing Unit		20-11-17
50	M/s Willing Stone Crusher	Manggapara, South West Garo Hills District	Stone Crusher		12-06-17
51	M/s Nalari Stone Crusher	Mawthwan, Sohiong	Stone Crusher		22-09-17
52	M/s Mawlong Stone Crusher	Mawmaram, Sohiong	Stone Crusher		14-11-17
53	M/s New Stay In Guest House	Keating Road, Plot No. 51 (By lane Lady Keane College)	Guest House		01-02-18
54	M/s ITD Cementation India Ltd.	Norbong, Byrnihat	Stone Crusher		29-05-17
55	M/s Greenland Lakhmi Crusher	New Amkrem, Jirang, Ri-Bhoi District	Stone Crusher	28-04-08	21-06-17
56	M/s S. J. Bakery & Confectionery	Rynjah, Shillong	Bakery Unit		11-05-17
57	M/s Thabah Auto Engineering Works	Mawlai Nongkwar, Shillong	Automobile Workshop		24-11-17
58	M/s Wessly Daloi Stone Crusher	Iew-Umpyur, Jirang, Ri-Bhoi District	Stone Crusher		21-06-17
59	M/s Shanlang Kharkongor Stone Crusher	Mawjrong, Kyrdemkhla	Stone Crusher		11-09-17

60	M/s Meghalaya Cements Ltd.	Thangskai Village, East Jaintia Hills	Cement Plant		15-12-17
61	M/s Rosan Lyngdoh Stone Crusher		Stone Crusher		17-11-17
62	M/s Aity's Bakery	Nongkhyriem, Nongthymmai, Shillong	Bakery Unit		31-10-17
63	N.E.I.G.R.H.M.S	Mawdiangdiang, Shillong	Sewage Treatment Plant		24-10-17
64	M/s Klansing Suting Stone Cutting	Siangkhnai, East Khasi Hills District	Stone Cutting Unit		24-10-17
65	M/s W.B. Stone Crusher	Lusong, Sutnga Elaka, East Jaintia Hills District	Stone Crusher		04-10-17
66	M/s Roson Lyngdoh Stone Crusher	Tynriang Sngi, Raid Nongkhyriem Syiemship	Stone Crusher		17-11-17
67	M/s R. Car Wash	Mawlai Nongpdeng, Shillong	Servicing Centre		25-07-17
68	M/s Precision Engineering Works	Umiam Industrial Estate, Barapani	Stone Crusher		24-07-17
69	M/s Teilang Automobile Service	7th Mile, Upper Shillong, Shillong	Automobile Workshop	03-12-07	12-07-17
70	M/s Anabond Ltd.	Khanapara	Anaerobic Adhesives & Sealant Industry		24-07-17
71	M/s K.M. Syiem	Demthring, Block-IV, Shillong	Steel Fabrication Unit		24-07-17
72	M/s Starlin Rynjah Stone Crusher	Mawrie, Lumheh, Sohryngkham	Stone Crusher	18-05-06	24-07-17
73	M/s Speed Tech	Mawblei	Automobile Servicing Unit		10-07-17
74	M/s Khlentey Rani Stone Crusher	Mawlyntriang (Weinikhong)	Stone Crusher		04-07-17
75	M/s B. Diengdoh Automobile	Nondien, New Nongstoin, West Khasi Hills District	Automobile Workshop		30-06-17
76	M/s Goodluck Coal Export	Hallydayganj, West Garo Hills	Stone Crusher Unit		23-06-17
77	M/s Kamakshi Ispat Pvt. Ltd.	E.P.I.P, Byrnihat, Ri-Bhoi District	M.S. Ingots Manufacturing Unit		23-06-17
78	M/s Paras Singh Stone Crusher	Maikhuli	Stone Crusher		22-06-17
79	M/s H.K.S. Stone Crusher Plant	Iongkhuli, Raid Marwet	Stone Crusher		21-06-17
80	M/s Hills Cement Company Ltd.	Mynkre Village, Jaintia Hills District	Limestone Mine		19-06-17
81	M/s Khan Motor Workshop	Keating Road, Shillong	Automobile Workshop		13-06-17

82	M/s Garden Hotel	Quinton Road, Police Bazar, Shillong	Hotel		13-06-17
83	M/s Godwin Hotel	G.S. Road, Police Bazar, Shillong	Hotel		13-06-17
84	M/s Kaochen Restaurant	Umsohsun G.S. Road, Police Bazar, Shillong	Restaurant		13-06-17
85	M/s Vasna Pearl Bamon	Lawbyrwa, Raid Mawbah	Water Re-filling Unit		07-06-17
86	M/s Shree Shankar Atta Chakki Mill	Bara Bazar, Shillong	Atta Chakki Mill		09-06-17
87	M/s D. Rynga Lime Kiln	Phyllut, Nongthymmai-Mawsmi, East Khasi Hills District	Lime Kiln Unit		11-04-17
88	M/s Marda Industries Pvt. Ltd.	EPIP, Byrnihat, Ri-Bhoi District	Aerated Autoclave Concrete & ACC Blocks Joining Motor		23-02-18
89	M/s S.J.K. Stone Crusher	Kyrdemkhla, Mawlaphar	Stone Crusher		18-05-17
90	M/s Hope Clinic	Barik	Clinic		18-05-17
91	M/s Payal Tourist Hotel	Thana Road, Shillong	Hotel		04-05-17
92	M/s Meghalaya Minerals & Mines Ltd. Mining 4.2 Ha	Lumshnong	Lime Stone Mining		25-04-17
93	M/s Nalari Tea Industry	Nongpoh	Tea Industry	22-08-02	18-04-17
94	M/s B. Marbaniang Lime Kiln	Lumsan Syiem, Nongthymmai-Mawsmi, East Khasi Hills District	Lime Kiln Unit		11-04-17
95	M/s Aloysius Areng	Lawbyrwa, Raid Mawbuh, Ri-Bhoi District	Pet Bottles Manufacturing & Blowing Unit		02-11-17
96	M/s M.D.H. Beverages (P) Ltd.	Umiam Industrial Area	IMFL Bottling		13-07-17
97	M/s B. S. Stone Crusher	Mawkasiang, Mawdiangdiang, East Khasi Hills District	Stone Crusher		16-11-17
98	M/s S.K. Associate	Shree Deep Kalita, M/s S.K. Associates, Lakhimandir, A.G. BusStop, Guwahati-28	Stone Crusher		29-03-18
99	The Director of Printing & Stationery, Govt. of Meghalaya	Shillong	Effluent Treatment Plant		19-01-18
100	M/s BSC-C&C (JV)	Kynshi			22-03-18
101	M/s Hills Cements Company Ltd.	Mynkre, East Jaintia Hills District	Cement Plant		07-03-18

102	M/s Adhunik Cement Limited 4.9 Ha Block II	Umsoo Myntang Village, East Jaintia Hills District	Lime Stone Mining BLOCK-II		28-02-18
103	M/s K. Singh Wann & Sons	Ichamati	Lime Stone Mining		19-02-18
104	M/s JUD Cements Limited	Wahiajer, Narpuh Elaka, Jaintia Hills District	Cement Plant		21-03-18
105	M/s D. Khylllep Lime Industry	Umtru, Ichamati, Mawlong Sirdarship	Lime Kiln Unit		05-09-17
106	M/s Nongkhlaw Crushing Stone	Mawnianglah	Stone Crusher		28-08-17
107	M/s K. Lyngdoh Automobile Workshop	4th Mile, Upper Shillong, Shillong	Automobile Workshop		21-03-18
108	M/s Mukhim Stone Crusher	Thadring, Mawlyngad	Stone Crusher		28-08-17
109	M/s New Hope Restaurant	K.J.P. Assembly, Conference Centre Central Ward, Shillong	Restaurant		06-05-17
110	M/s Cosmos Cements Limited	Salang, Sutnga Elaka	Coal Based Thermal Power Plant	31-07-17	
111	M/s Cosmos Cements Limited	Salang, Sutnga, East Jaintia Hills District Elaka	Integrated Cement Plant and Clinker	31-07-17	
112	M/s Rodeka Enterprise	Marba Hub, Police Bazar, Shillong	Restaurant	28-09-17	
113	M/s AMM CEE Café (Fast Food)	Jail Road, Police Bazar, Shillong	Restaurant		07-04-17
114	M/s Fazal Crushing Machine	Dhaguri, Hallidayganj	Stone Crusher	01-06-06	06-06-17
115	M/s Orchid Lake Resort	Umiam Lake	Hotel Cum Restaurant		14-11-17
116	M/s Orchid Annex	Polo Road, Shillong	Hotel		08-11-17
117	M/s R.B.I. Bricks, Noresh Sangma	Kathalbari	Brick Kiln		16-11-17

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