

CONTENTS

1.	Introduction	1
2.	Constitution of the Board & Changes Therein	4
3.	Meetings of the Board with Major Decisions	5
4.	Committees Constituted by the Board & their Activities	11
5.	Monitoring Network for Air, Water & Noise Level Quality	14
6.	Present State of the Environment, Environmental Problems and Counter Measures	39
7.	Environmental Research	41
8.	Environmental Training	42
9.	Environmental Awareness & Public Participation	43
10.	Other Activities of the Board	46
11.	Legal Matters	53
12.	Publicatio of the Board	56
13.	Financial Summary	57
13.	Annexures	61-82

1

INTRODUCTION

The Government of Meghalaya in the Public Health Engineering Department constituted the L 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 enforce the Air (Prevention & Control of Pollution) Act, 1981 was also entrusted to the Board. The functions of the Board are as 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) Water (Prevention and Control of Pollution) Cess Rules, 1978.
- 2)
 - - Cells Rules, 1989.
 - The Public Liability Insurance Act, 1991.

 - 1996.

 - The Recycled Plastics Manufacture and Usage Rules, 1999.
 - The Fly Ash Notification, 1999.
 - The Noise Pollution (Regulation and Control) Rules, 2000.
 - The Ozone Depleting substances (Regulation) Rules, 2000.

 - The Batteries (Management & Handling) Rules 2001.



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

The Environmental Protection Act, 1986 and the rules framed thereunder viz.,

The Hazardous Waste (Management and Handling) Rules, 1989.

The Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.

The Manufacture, Use, Import, Export & Storage of Hazardous Micro organism or

The Environmental Impact Assessment Notification, 2006 and Amendments 2009.

The Chemical Accidents (Emergency Planning, Preparedness & Response) Rules,

The Bio-Medical Wastes (Management & Handling) Rules, 1998

The Municipal Solid Wastes (Management & Handling) Rules, 2000.

3) The Public Liability Insurance Act, 1991

The Board has been functioning with 68 Staff as on 31st March 2013 against a sanctioned strength of 123. The details of staff position are given in Annexure-1. The organization chart of the Board is appended in Annexure-2.

The Central Office of the Board is located in Shillong. At present, 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 Board.

- Inspection of industries and local bodies. (i)
- (ii) Monitoring the quality of water and wastewater.
- Monitoring the quality of ambient air and stack emissions. (111)
- Inspection of sites proposed for setting up of industries to verify the suitability of the same (iv) from environmental point of view.
- Water bodies monitoring under National Water Quality Monitoring (NWQM) Programme. (\mathbf{v})
- Ambient air quality monitoring under National Air Monitoring Programme (NAMP). (vi)
- Offering guidance to industries and local bodies on statutory provisions. (vii)
- (viii) Issue of "Consents to Establish" and "Consents to Operate" in respects of industries, mining projects specified developmental projects and municipal bodies.
- Waste Management under E.P. Act.: (ix)
 - Hazardous Waste Management ٠
 - Identification of Sources
 - Characterisation & Quantification of Wastes
 - Enforcement of provisions of the Rules
 - Monitoring of compliance to standards •
- **Bio-Medical Waste Management:** (x)
 - Identification of Sources
 - Characterisation & Quantification of Wastes
 - Enforcement of Provisions of the Rules
 - Monitoring of Compliance to Standards

Meghalaya State Pollution Control Board

- (xi) Municipal Solid Waste Management Act:
 - Identification of Sources
 - Characterisation & Ouantification of Wastes
 - Enforcement of provisions of the Rules
 - Monitoring of Compliance to Standards
- (xii) Batteries Management
 - Identification of Sources
 - Characterisation & Quantification of Wastes
 - Enforcement of Provisions of the Rules
 - Monitoring of Compliance to Standards
- (xiii) Plastic Management :
 - Identification of Sources
 - Characterisation & Quantification of Wastes
 - Enforcement of Provisions of the Rules
 - Monitoring of Compliance to Standards

(xiv) Noise Pollution Management :

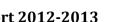
- Identification of Sources in respect of industries.
- Monitoring the Compliance of Standards by industries.



Enforcement of Provisions of the Rules in respect of industries.

Monitoring of ambient noise in Industrial/Commercial/Residential areas.

Monitoring of ambient noise in Industrial/Commercial/Residential areas.



CONSTITUTION OF THE BOARD & CHANGES THEREIN

The State Government nominates the members of 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 dt.the 16th November, 1983. The last reconstitution was notified out in May 1998 vide Notification No. PHE 161/83/178 dtd. the 21st May1998. However, the three non- officials members were renotified vide Notification NO.PHE.161/83/187 dt.the 24th March, 1999 & NO.PHE.161/83/205 dt.the 5th January, 2001.

The Board consists of 17 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. The list of the Members of the Board is appended at Annexure-3.

During the financial year 2011-2012 Shri Shri M. Allya as the Chairman of the Board w.e.f. 01/04/2012 and Shri N.P. Gupta 01/04/2012 as the Member Secretary of the Board w.e.f 01/04/2012.

3 MEETINGS OF THE BOARD WITH **MAJOR DECISIONS**

During the year 2012-2013, the Board conducted the following Meetings:

Sl. No.	Meeting No.	Date	Venue	No. Of Members Attending the Meeting		
1	57th Board Meeting	25/09/2012	Office chamber of the Chairman, MSPCB	7 (seven)		
2.	58th Board Meeting 25/03/2013		Office chamber of the Chairman, MSPCB	8 (eight)		

THE 57th BOARD MEETING HELD ON THE 25th SEPTEMBER 2012 The following major decisions were taken during the Meeting:

i) 56th Meeting)

> It was informed that auditing of the Board's Accounts for the year 2003-2004 up to 2006-2007 by M/S A. Paul & Co. have been completed and submitted to the office of the Board. A copy of the Report is placed before the Board for perusal and discussion. It was also informed that the Govt. has appointed M/S A.S. Biswas & Co. for auditing the Board's Accounts for the year 2007-2008 and the work is in progress.

> The Board accepted the Audit Reports for the years 2003-2004 up to 2006-2007 and decided that the observations made in the Audit Reports should now be attended to.

ii) Proposal for upgradation of posts (Agenda Item No. 2.10 of the 56thMeeting)

It was informed that in pursuance to the decisions of the Board in its 56th Meeting held on 14-02-2012 including preceding meetings, a draft proposal for Strengthening of the staff structure of the Meghalaya State Pollution Control Board taking into consideration its functions and activities to be performed under the Water (Prevention&Control of Pollution) Act, 1974, Air (Prevention&Control of Pollution) Act, 1981, Water (Prevention&Control of Pollution) Cess Act, 1977 and various Rules framed under the Environment (Protection) Act, 1986 relating to Municipal Solid Waste, Bio-Medical Waste, Hazardous Waste, Plastic Waste, Electronic Waste, Battery Waste, Hazardous Chemicals, EIA Notification, etc. has been prepared and place before the Board for perusal and consideration.

In reply to the Member's query, it was informed that the draft proposal has been prepared in line with the set up and staff structure of other State Boards.



Auditing of the Board's Accounts by a Chartered Accountant (Agenda Item No. 2.2 of the

After thorough perusal, the Board accepted the "Proposal for Strengthening of the Meghalava State Pollution Control Board" and decided that the draft proposal should be sent to the Government for approval.

Budget of Meghalaya State Pollution Control Board for the year 2013-2014 iii) (Agenda Item No. 2.14 of the 56th Meeting)

The Budget proposal (Plan & Non-Plan) of Meghalava SPCB for the year 2013-2014 has been prepared and placed before the Board for perusal and approval.

During the course of discussion, it was informed that the Govt. has issued an order that there will be a 10% economy cut on Budgets of all Departments, as such; there will be shortfall under Non-Plan. The Chairman requested approval of the Board Members to allow the office of the Board to meet the shortfall from the Board's Revenue in case the Government does not consider releasing the full amount as projected.

The Board approved the Budget proposal (Plan & Non-Plan) for the year 2013-2014 and decided that the Gratuity Fund for the Board's employees should also be included under the Plan Budget. The Board also approved the proposal to meet the shortfall from the Board's Revenue, if the need arises.

Proposal for purchase of new vehicle iv)

It was informed that the TATA Indica allotted to the Member Secretary has been purchased in 2004 and has been running continuously. Further, on 22-10-2005, the vehicle met with an accident at Thangskai Village while returning from site inspection of the cement factories at Jaintia Hills District. Since the vehicle has been in service for almost 8 (eight) years and in view of the accident, the cost of its running and maintenance has increased due to wear and tear of different parts of the vehicle and has become uneconomical. At present, the vehicle is in a very poor condition requiring frequent major repairs and unfit for long distance travel. Considering the condition of the vehicle, it is proposed that a new vehicle may be purchased for the Member Secretary and the TATA Indica may be kept as a pool car for travelling short distances only. A Verito car or Bolero from Mahindra is proposed in this regard.

As per decisions of the Board in its 49th Meeting held on 27th May 2008, as per category and cadre of the Officer, a vehicle should be allotted while maintain on pool car. 2(two) vehicles have been purchased for the Sr. Environmental Engineer and Environmental Engineer of the Board however, a vehicle is yet to be purchased for the Sr. Scientist and as well as other officers on field duty. It is proposed that based on the earlier decision of the Board, a vehicle may be procured for the Sr. Scientist to enable her and her team to carry out field/inspection trip.

After a thorough deliberation, the Board approved the proposal to procure 2(two) vehicles, one for the Member Secretary and one for the Sr. Scientist.

v) Creation of posts

- 1. Environmental Engineer:
- 2. Asstt. Environmental Engineer:

It was informed that the manpower available with the Technical Branch especially in the rank of Asstt. Environmental Engineer & Environmental Engineer is not adequate to meet the increasing workload in Consent Management, Bio-Medical Waste Management, Municipal Waste Management, Hazardous Waste Management, Cess assessment, Redressal of public complaints, conducting of Awareness Programmes, Preparation of Status Reports, etc. It is therefore proposed that 1(one) post of Environmental Engineer and 3 (three) posts of Asstt. Environmental Engineer is required to be created for smooth and effective performance of the activities vested with the Technical Branch of the Board. The details and criteria required for filling up the posts are as given below: -

Name of Post	No. of posts	Mode of appointment
Environmental Engineer Pay Scale: 23,300-700-27,500-830-32,480-970- 39,270/-	1	By promotion from the cadre of Asstt. Environmental Engineer on seniority-cum- merit basis and should have rendered not less than 5 years of continuous service as Asstt. Environmental Engineer having Bachelor Degree in Civil/Chemical/Environmental Engineering from a recognized Institution
Asstt. Environmental Engineer Pay Scale: 17,000-470-20,290-EB-560-25,330-760- 33,690/-	3	 70% by direct recruitment through Selection Committee having Bachelor Degree in Civil/Chemical/Environmental Engineering from a recognized University/ Institution 30% by promotion from the cadre of Junior Environmental Engineer on seniority- cum-merit basis and should have rendered not less than 10(ten) years of continuous service as Junior Environmental Engineer having 3(three) years Diploma in Civil/ Chemical/Mechanical Engineering from a recognized Institution



In reply to the Member's query, it was clarified that the proposal is not linked with the Strengthening of the Board, however, there is an immediate requirement of Engineers in view of the increasing workload. Further, serious observations were made in the CAG Report 2011-12 on non-performance of monitoring and inspection as per norms due to shortage of technical man-power and thereby resulting to poor performance of the Board in prevention and control of pollution in the State.

After a thorough deliberation, the Board approved the proposal to create 1(one) post of Environmental Engineer and 3(three) posts of Asstt. Environmental Engineer and decided that the proposal should be sent to the Govt. for obtaining necessary sanction of the posts at the earliest as the matter is of utmost priority for effective implementation and enforcement of the Pollution Control statutes.

Modification of criteria for Siting of Lime Kilns vi)

It was informed that Lime manufacturing has been classified as "Red category" industries vide Notification No. MPCB/TB-816/2002-2003/1 Dtd. 24th July 2002 and published in the Gazette of Meghalaya, Dtd. 8th August 2002. Due to Lime Kilns being highly air polluting, the Meghlaya SPCB had notified vide No. MPCB/TB-153/1999-2000/69 Dtd. 1st February 2000, published in the Gazette of Meghalaya Dtd. 17th February 2000, the criteria for Siting of Lime Kilns-Annexure 'A'. Subsequent to the said Notification, applications received in the Board for grant of Consent under Provisions of the Water (Prevention&Control of Pollution) Act, 1974 and the Air (Prevention&Control of Pollution) Act, 1981 and their subsequent Amendments, Lime Kiln projects were considered based on Siting Norms as the major criterion.

It was also informed that Lime Kilns at Nongthymmai-Mawsmai have been a source of air pollution in the area for a long time. Operation of Lime Kilns in clusters compounded by local topography and meteorological condition around Nongthymmai-Mawsmai area has adversely affected the ambient air quality to a great extent as per recent Study of the Meghalaya SPCB carried out in October 2011. To address the problem, several Meetings were convened by the Sub Divisional Officer (C), Sohra Civil Sub-Division, Sohra with the Meghalaya SPCB, the State Forests & Environment Department, the State Health & Family Welfare Department, the Syiem of Sohra, Rangbah Shnongs and representatives of concerned villages which culminated in additional "Conditions" as per the local requirement issued vide letter No. SSD/JDCL/Pt-I/2011/36 Dtd. 20th March 2012-Annexure 'B'. The matter was placed before the Board for discussion and necessary decision.

It was clarified that the additional specific "Conditions" will be included with the Siting norms for new projects which will come up in the Nongthymmai-Mawsmai area only. However,

Meghalaya State Pollution Control Board

Renewal of Consent.

After a thorough deliberation, the Board accepted and approved to include the "Conditions" to be included in the Siting norms for Lime Kilns. It was also decided that the SDO (C), Sohra Civil Sub-Division should be made aware of the unorganized lime kilns and request action from his end to direct them to apply for Consent of the Board.

THE 58th BOARD MEETING HELD ON THE 25th MARCH 2013

The following major decisions were taken during the Meeting:

Bringing coal mining activities within 'Consent Regime' and necessary decision.

i)

During the course of discussion, the Members of the Board suggested that the matter should be followed in line with the State Mines & Minerals Policy 2012 of the Government. After a detailed deliberation in the matter, the Board decided the following: -

- the State.



for the existing projects, the same Conditions will be taken into consideration while issuing

It was informed that a case was registered in the Gauhati High Court as PIL No. 88/2010, the subject matter of which is about coal mining activities in Deinshalalu area of Jaintia Hills District (that have polluted the water bodies there) has made Meghalaya SPCB as an answering party also. In the course of the case, the Gauhati High Court has passed several Orders, part of the Orders concern the State Government and its Mining Policy (which has been notified recently as Meghalaya Mines and Mineral Policy, 2012). It was also informed that the case is pending in Court while an Empowered Committee constituted for monitoring and reviewing the implementation of the Meghalaya Mines and Mineral Policy 2012 has asked Meghalaya SPCB to draft Departmental Regulations under the relevant Clauses of the said Policy. The Meghalaya SPCB has submitted a letter informing that the Meghalaya SPCB is a Body constituted under the Water (Prevention & Control of Pollution) Act, 1974 & Air (Prevention & Control of Pollution)Act, 1981 and hence it is governed by the provisions of the said Acts. In the meanwhile, the Ministry of Enrivonment & Forests has advised Meghalaya SPCB to immediately bring coal mining operations under the purview of the Water (Prevention & Control of Pollution)Act, 1974 and Air (Prevention & Control of Pollution)Act, 1981 with intimation to the Court. The matter is placed before the Meeting of the Board for discussion

1. The matter may be consulted with the Mining & Geology Department.

2. The Board may initiate action to regulate the mining activities under the relevant Pollution Control laws in line with implementation of the State Mines & Minerals Policy 2012 of

ii) Utilization of Board's Revenue for contingency expenditure, etc.

It was informed that the expenditure other than Salary like Office Expenses, Travelling Expenses, Other Charges, Telephone and Electric Charges, Chemicals and Glassware, Maintenance of Building etc., for the financial year 2012-2013 is approximately `35.00 Lakhs and the proposed expenditure for the financial year 2013-2014 is `40.00 Lakhs. It is proposed that the above expenditure may be allowed to be met from the Board's Revenue. The matter was placed before the Board for discussion and necessary decision.

The Board accorded its approval for utilizing the Board's Revenue for contingency expenditure, etc.

iii) Assured Career Progression Scheme (ACPS)

It was informed that the Fourth Meghalaya Pay Commission has recommended introduction of a new Scheme to deal with the problem of genuine stagnation and hardship faced by the State Government employees due to lack of adequate promotional avenues, especially those belonging to services or holding posts generally classified as common categories and isolated posts. As per recommendations, career progression benefit will be available to a Government employee who stagnates in service for a continuous and specified period of time in the form of financial up-gradation, to be allowed twice in his service career subject to fulfillment of certain conditions. In pursuance thereof, a Scheme known as the "Assured Career Progression Scheme (APCS) for the State Government employees was notified vide No. F (PR)-76/2009/54 Dtd. 22nd February 2010. In this connection and as per direction of the Govt., a Screening Committee of the Board was notified vide Notification No. MPCB/GEN-154/2012-13/3 Dtd. 6th December 2012 and a Meeting of the Screening Committee was held on 6th March 2013.

It was also informed that on scrutiny of the service records, it was found that at present, 6(six) employees of the Board are eligible under the Scheme who have completed more than 12(twelve) years of service in the same post. After minute examination of the documents, the Members of the Screening Committee found that they are all in order. The matter was placed before the Board for approval.

The Board approved the grant of Assured Career Progression Scheme to the 6 (six) eligible employees of the office of the Board.

4 COMMITTEES CONSTITUTED BY The board & their activities

MEMBERS OF THE CONSENT COMMITTEE

- 1. Chairman Meghalaya State Pollution Control H
- 2. Senior Inspector of Boilers & Factor Inspectorate of Boilers & Factories, Meghalaya, Shillong.
- 3. Conservator of Forests, Meghalaya, Shillong.
- 4. Deputy Director, Directorate of Industries, Meghalaya, Shillong.
- 5. Director of Mineral Resources, Meghalaya, Shillong.
- Member Secretary, Meghalaya State Pollution Control E

MEMBERS OF THE PURCHASE CO

- 1. Chairman Meghalaya State Pollution Control H
- 2. Director of Industries or his nomined
- 3. Chief Engineer P.H.E Deptt. Meghal
- 4. The Director, Regional Sophisticated Instrument C Bijni Complex, N.E.H.U, Shillong.
- 5. Senior Scientist, Indian Council of A Umiam
- 6. Member Secretary, Meghalaya State Pollution Control Boa

MEMBERS OF THE SELECTION CO

- 1. Principal Secretary/ Commissioner & Govt. of Meghalaya, P.H.E.Deptt., S
- 2. Chief Engineer/Addl. Chief Engineer, P.H.E. Deptt. Meghalaya, Shillong



	01
Board, Shillong	: Chairman
ries,	: Member
	: Member
	: Member
	: Member
Board, Shillong	: Member Convener
MMITTEE	
Board, Shillong.	: Chairman
e.	: Member
laya or his nominee	: Member
Centre,	: Member
Agricultural Research(I.C.A.R),	: Member
ard, Shillong.	: Convener
OMMITTEE FOR GRADE – '	A' DOSTS
& Secretary Shillong	: Chairman
er, P.H.E. Deptt.	: Member

Annual Report 2012-2013

3.	Chairman Meghalaya State Pollution Control Board, Shillong	: 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
ME	MBERS OF THE SELECTION COMMITTEE FOR GRADE - '	B', 'C' & 'D' POSTS
1.	Chairman Meghalaya State Pollution Control Board, Shillong.	: Chairman
2.	Chief Administrative Officer, O/o the C.E., P.H.E. Deptt. Shillong.	: 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/E.O. Meghalaya State Pollution Control Board, Shillong.	: Member Convener

MEMBERS OF THE ASSESSMENT-CUM- PROMOTION COMMITTEE FOR GRADE - 'A' POSTS

1.	Chairman Meghalaya State Pollution Control Board, Shillong.	: Chairman
2.	Member Secretary, Meghalaya State Pollution Control Board, Shillong.	: Member
3.	Senior Scientist/Scientist 'C'	: Member
4.	Sr. Environmental Engineer/ Environmental Engineer	: Member
5.	Chief Administrative Officer, O/o the C.E., P.H.E. Deptt., Meghalaya, Shillong	: Member
6.	Administrative Officer/Establishment Officer Meghalaya State Pollution Control Board, Shillong.	: Member Convener

Meghalaya State Pollution Control Board

MEMBERS OF THE ASSESSMENT-CUM- PROMOTION COMMITTEE FOR GRADE-'B','C'&'D' POSTS

- 1. Member Secretary, Meghalaya State Pollution Control E
- 2. Chief Administrative Officer, O/o the C.E., P.H.E. Deptt., Meghala
- Senior Scientist/Scientist 'C' 3.
- Sr. Environmental Engineer/ Environ 4.
- Administrative Officer/Establishmen 5. Meghalaya State Pollution Control E





Board, Shillong	: Chairman
aya, Shillong	: Member
	: Member
onmental Engineer	: Member
nt Officer Board, Shillong	: Member Convener

MONITORING NETWORK FOR AIR, WATER & NOISE LEVEL QUALITY

5.0 AIR QUALITY MONITORING 5.0.1 NATIONAL AIR QUALITY MONITORING

The Meghalaya State Pollution Control Board is monitoring the Ambient Air Quality at 7 (seven) stations in the state under National Air Monitoring Programme (NAMP) sponsored by CPCB (Fig 5.0.1). The frequency of monitoring is twice a week. Particulate Matter (PM10), Sulfur Dioxide (SO2), Oxides of Nitrogen (NOx) and meteorological parameters viz. wind speed, wind direction, ambient air temperature, humidity, etc. were monitored at these stations and the observations are presented below:-

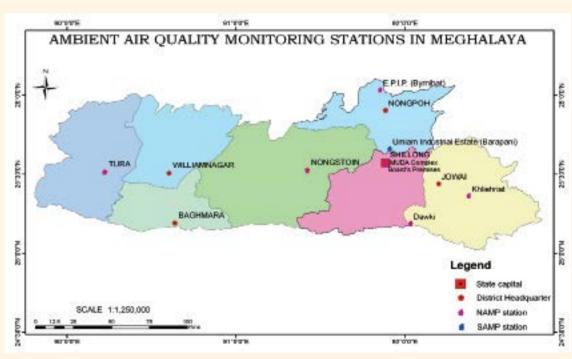


Fig. 5.0.1: Location of NAMP and SAMP stations in the state.

1. Board's Office Premises, Lumpyngngad, Shillong (Station – I):

Ambient air quality monitoring data during 2012 monitored at the Board's Office Premises, Lumpyngngad, Shillong, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), Oxides of Nitrogen (NOx) & Particulate Matter (PM₁₀) are within the prescribed standards of National Ambient Air Quality standards. The monitoring results during the period is shown in Table-5.0.1 and depicted in Fig. 5.0.2

(Stn – I), 2012.

$\begin{array}{c} \text{Months} \rightarrow \\ \text{Parameters} \\ \downarrow \end{array}$	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Average
PM10 (μg/m ³)	54.6	45.8	52.2	39.9	38.8	38.4	40	37.8	32.3	35.3	36.8	34.2	40.5
SO ₂ (μg/m ³)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
NOx (µg/m ³)	5.3	5.6	5.4	5.3	4.7	4.7	4.6	4.5	4.5	4.6	4.6	5.0	4.9



Fig 5.0.2 Monthly average of PM10, SO, and NOx levels at Board's Premises, Shillong.

2. MUDA Complex, Police Bazar, Shillong (Station – II):

Ambient air quality monitoring data during 2012 monitored at MUDA Complex, Police Bazar, Shillong, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), and Oxides of Nitrogen (NOx) are within the prescribed standards of National Ambient Air Quality standards. Particulate Matter (PM₁₀) levels are above the National Ambient Air Quality standards. The monitoring results during the period is shown in Table-5.0.2 and depicted in Fig 5.0.3

Table 5.0.1 : Ambient Air Quality data at Board's Office Premises, Lumpyngngad, Shillong,

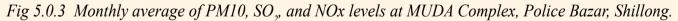
Permissible Limits: PM10($\mu g/m^3$) – 60, SO²($\mu g/m^3$) – 50, NOx($\mu g/m^3$) - 40

Table 5.0.2: Ambient Air Quality data at MUDA Complex, Police Bazar, Shillong, (Stn - II), 2012

$\begin{array}{c} \text{Months} \rightarrow \\ \text{Parameters} \\ \downarrow \end{array}$	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Average
PM10 (μg/m ³)	93.0	93.1	94.3	94.6	98.9	90.6	82.3	75.7	80.5	72.7	84	89.4	87.4
SO ₂ (μg/m ³)	4.0	2.5	2.0	2	2.2	3.1	2.5	3.3	2.1	2	3	2	2.5
NOx (µg/m ³)	18.8	17.0	12.1	14.4	15.4	15.7	15.9	17.7	14.9	15.8	15.4	11.4	15.3

Permissible Limits: PM10(μ g/m³) – 60, SO₂(μ g/m³) – 50, NOx(μ g/m³) - 40



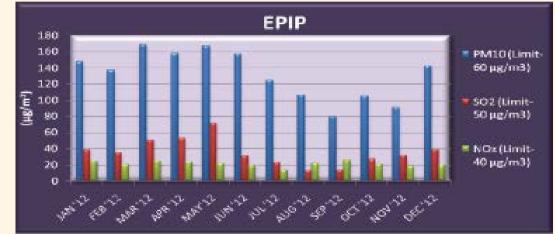


3. EPIP, Byrnihat, Ri-Bhoi District (Station – III)

Ambient air quality monitoring data during 2012 monitored at EPIP, Byrnihat, Ri-Bhoi District, an industrial area, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), and Oxides of Nitrogen (NOx) are within the prescribed standards of National Ambient Air Quality standards. Particulate Matter (PM₁₀) levels are above the National Ambient Air Quality standards. The monitoring results during the period is shown in Table-5.0.3 and depicted in Fig 5.0.4.

Table	5.0.3	: Ambient Air	Quality data
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_	Table 5.0.3 : Ambient Air Quality data at EPIP, Byrninat, Ri Bhoi District, (Stn – 111), 2012													
	$\begin{array}{l} \text{Months} \rightarrow \\ \text{Parameters} \\ \downarrow \end{array}$	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Average
	PM10 (μg/m ³)	148.1	137.1	168.3	157.3	167.3	157.1	124.3	106.8	79	105.5	91.3	142.5	132.0
	$\frac{SO_2}{(\mu g/m^3)}$	38.2	34.8	50.7	53.3	71	30.6	23.1	13.1	13.6	27.1	31.4	38.8	35.4
	NOx (µg/m ³)	25.4	20.8	24.9	23.8	22	19.6	13.8	22.4	26.1	21.4	18.7	20.2	21.5



4. Dawki, West Jaintia Hills District (Station – IV) depicted in Fig 5.0.5

1abit 5.0.7		icit 1	in Qu	anty u	αια αι	Dawn	1, 1103	ı gannı	14 111		(110,	Jun 1	1, 2012
$\begin{array}{c} \text{Months} \rightarrow \\ \text{Parameters} \\ \downarrow \end{array}$	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Average
PM10 (μg/m ³)	73.2	73.5	50.7	39.5	33	24.5	26	36.8	41.6	42	52.5	55.9	45.7
$\frac{SO_2}{(\mu g/m^3)}$	2.0	2.8	2.0	2	2	2	2	2	2	2	2	2	2.0
NOx (µg/m ³)	5.9	9.4	11.7	7.5	6.2	6	6.6	7.9	8.1	8.2	10.4	12.9	8.4
D			• • •		<i>i</i> 1	3) (0)	G O	())		NO	<i>i</i> 1	2 40	



Annual Report 2012-2013

at FDID Dyrnihat Di Dhai Distriat (Stn. III) 2012

Permissible Limits: PM10(μ g/m3) – 60, SO₂(μ g/m³) – 50, NOx(μ g/m³) - 40

Fig 5.0.4 Monthly average of PM10, SO,, and NOx levels at EPIP, Byrnihat, Ri Bhoi District.

Ambient air quality monitoring data during 2012 monitored at Dawki, West Jaintia Hills District, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), Oxides of Nitrogen (NOx) & Particulate Matter (PM₁₀) are within the prescribed standards of National Ambient Air Quality standards. The monitoring results during the period is shown in Table-5.0.4 and

Table 5.0.4 : Ambient Air Quality data at Dawki, West Jaintia Hills District, (Stn – IV), 2012

Permissible Limits: PM10 ($\mu g/m^3$) – 60, SO, ($\mu g/m^3$) – 50, NOx ($\mu g/m^3$) - 40



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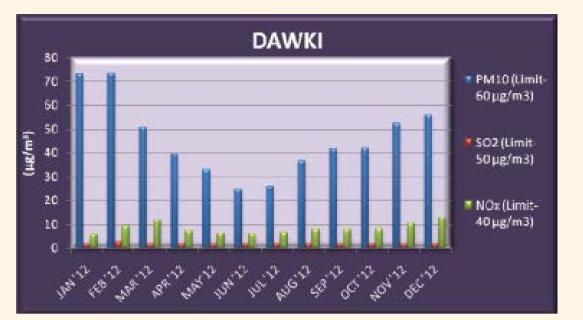


Fig 5.0.5 Monthly average of PM10, SO,, and NOx levels at Dawki, West Jaintia Hills, District

Tura, West Garo Hills District (Station – V) 5.

Ambient air quality monitoring data during 2012 monitored at Tura, West Garo Hills District, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), Oxides of Nitrogen (NOx) & Particulate Matter (PM₁₀) are within the prescribed standards of National Ambient Air Quality standards. The monitoring results during the period is shown in Table-5.0.5 and depicted in Fig 5.0.6

Table 5.0.5 Ambient Air	· Quality data at T	ura, West Garo Hills	District, (Stn – V), 2012
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$\begin{array}{c} \text{Months} \rightarrow \\ \text{Parameters} \\ \downarrow \end{array}$	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Average
PM10 (μg/m ³)	53.3	55.3	59.6	52.4	51.9	47.7	52.3	47.5	51.2	50.4	51.6	58.5	52.6
$\frac{SO_2}{(\mu g/m^3)}$	2	2	2	2	2	2	2	2	2	2	2	2	2.0
NOx (µg/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

S Permissible Limits: PM10 ($\mu g/m^3$) – 60, SO2($\mu g/m^3$) – 50, NOx($\mu g/m^3$) - 40

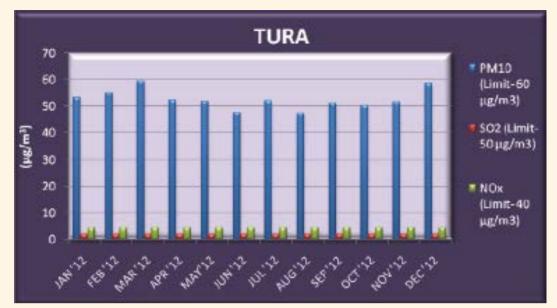


Fig. 5.0.6 Monthly average of PM10, SO,, and NOx levels at Tura, West Garo Hills District 6. Khliehriat, Jaintia Hills District, (Station – VI)

Ambient air quality monitoring data during 2012 monitored at Tura, West Garo Hills District, Ambient air quality monitoring data during 2012 monitored at Khliehriat, Jaintia Hills District, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), and Oxides of Nitrogen (NOx) are within the prescribed standards of National Ambient Air Quality standards. Particulate Matter (PM10) levels are above the National Ambient Air Quality standards. The monitoring results during the period is shown in Table-5.0.6 and depicted in Fig 5.0.7

$\begin{array}{c} \text{Months} \rightarrow \\ \text{Parameters} \\ \downarrow \end{array}$	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Average
PM10 (μg/m ³)	56.4	54.6	58.2	56.4	54.6	58.2	34.2	54.4	53.2	53.4	50.4	52.3	74.9
SO ₂ (μg/m ³)	2	2	2	2	2	2	2	2	2	2	2	2	2.0
NOx (µg/m ³)	27.1	17.5	25.1	27.1	17.5	25.1	10.9	4.5	4.5	7.9	7.8	4.5	18.2



Annual Report 2012-2013

Table 5.0.6 Ambient Air Quality data at Khliehriat, Jaintia Hills District, (Stn – VI), 2012

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



Fig. 5.0.7 Monthly average of PM10, SO,, and NOx levels at Khliehriat, Jaintia Hills District.

7. Nongstoin, West Khasi Hills District. (Station – VII)

Ambient air quality monitoring data during 2012 monitored at Nongstoin, West Khasi Hills District, revealed that the Annual Average concentrations of Sulphur Dioxide (SO₂), Oxides of Nitrogen (NOx) & Particulate Matter (PM₁₀) are within the prescribed standards of National Ambient Air Quality standards. The monitoring results during the period is shown in Table-5.0.7 and depicted in Fig 5.0.8

_	$\begin{array}{c} \text{nths} \rightarrow \\ \text{umeters} \\ \downarrow \end{array}$	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Average
	M10 g/m ³)	28.6	31.6	23.8	29.8	25.4	28.2	19.4	25.5	24.5	25.1	31.5	34.6	27.3
	SO ₂ g/m ³)	2	2	2	2	2	2	2	2	2	2	2	2	2.0
	VOx g/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

Table 5.0.7 Ambient Air Quality data at Nongstoin, West Khasi Hills District, (Stn-VII), 2012

Permissible Limits: PM10(μ g/m³) – 60, SO, (μ g/m³) – 50, NOx (μ g/m³) - 40



5.0.2 STATE AMBIENT AIR MONITORING PROGRAMME:

The Board has established an Ambient Air Quality Monitoring station at Umiam Industrial area under State Air Quality Monitoring Programme (SAMP) during August 2009. The objective of the programme is to determine the status & trends of ambient air quality to ascertain whether the presented ambient air quality standards are violated. The results obtained during monitoring are depicted as follows:-

Ambient air quality monitoring data during 2012 monitored at Umiam Industrial Estate, Ri-Bhoi District, revealed that the Annual Average concentrations of Sulphur Dioxide (SO2), and Oxides of Nitrogen (NOx) are within the prescribed standards of National Ambient Air Quality standards. Particulate Matter (PM10) levels are above the National Ambient Air Quality Standards. The monitoring results during the period are shown in Table 5.0.2.1 and depicted in Figure 5.0.2.1

10010 0101211													
$\begin{array}{c} \text{Months} \rightarrow \\ \text{Parameters} \\ \downarrow \end{array}$	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Average
PM10 (μg/m ³)	137.2	197.9	160.5	99.7	96.5	82.1	78.3	87.4	90.6	77.9	100.4	104.1	109.3
$\frac{SO_2}{(\mu g/m^3)}$	2	2	2	2	2	2	2	2	2	2	2	2	2.0
NOx (µg/m ³)	15.5	17.0	14.4	14.3	15.5	14.3	15.2	10.2	12.5	10.7	12.7	13.5	13.8
Permissible Limits: PM10(μ g/m ³) – 60, SO (μ g/m ³) – 50, NOx(μ g/m ³) – 40													

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Annual Report 2012-2013

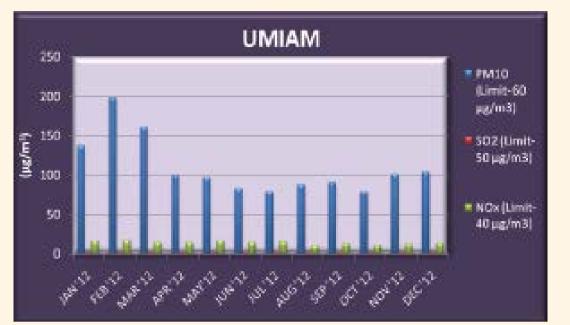


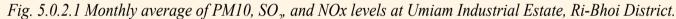
Table 5.0.2.1 Ambient Air Ouality data at Umiam Industrial Estate, Ri-Bhoi District, (SAMP), 2012

- 00, SO, (µg/

Fig5.0.8 Monthly average of PM10, SO,, and NOx levels at Nongstoin, West Khasi Hills District.







5.0.3 Air Quality Monitoring For Some Industrial Units.

The Board carried out Ambient Air Table-5.0.3.1 and Source emission Table-5.0.3.2 quality monitoring for some industrial units operating in the state. The following results were obtained during the monitoring: -

		-							
Sl. No.	Name of Industry/ Location	Sampling Station	Date of Sampling	PM10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	Remarks		
1	M/S Maithan Alloys (P) Ltd., Byrnihat.	Near Power Plant	20.11.12	250.9	15.8	26.5	А		
2	M/S Nalari Ferro Alloys (P) Ltd., Byrnihat.	Near Main Gate	20.11.12	84.2	18.0	16.4	W		
3	M/S Adhunik Cements Ltd., Thangskai.	Near Temporary Hospital	27.11.12	112.7	2.0	14.8	А		
		Near Coal mill	27.11.12	129.8	6.1	11.3	А		
		Near Power plant	28.11.12	301.1	32.0	10.3	А		
4	MCCL, Sohra.	Near Guest House	04.12.12	93.9	2.0	6.8	W		
		Near Main Gate	04.12.12	116.0	2.0	9.7	А		
5	MCCL, Sohra.	Quarry 1	22.01.13	87.1	2.0	4.5	W		
		Near Canteen (Mining Deptt.)	22.01.13	96.8	2.0	6.8	W		
		MCCL, Colony	23.01.13	63.8	2.0	5.5	W		
		Near Guest House	23.01.13	93.9	2.0	5.3	W		
		Industry premises	23.01.13	116.0	2.0	9.3	А		
W W	Within Pormissible Limits A Above Pormissible Limits								

W - Within Permissible Limits

A - Above Permissible Limits

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Table 5.0.3.2 Stack monitoring data conducted during 2012-2013

Sl. No.	Name of Sampling location	Date of Sampling	Type of Stack	Parameters tested	Observed value (mg/ Nm ³)	Permissible limits (mg/ Nm ³)	Remarks
1	M/S Maithan Alloys (P) Ltd., Byrnihat.	21.11.12	Thermal Power Plant	РМ	124.5	50	А
2	M/S Adhunik Cements Ltd., Thangskai.	27.11.12	ESP	РМ	42.1	50	W
		27.11.12	Kiln & Raw Mill	РМ	36.8	50	W
		27.11.12	Cement Mill No. 1	РМ	38.1	50	W
		27.11.12	Cement Mill No. 2	РМ	42.7	50	W
		28.11.12	Thermal Power Plant	РМ	180.2	50	А
		28.11.12	Coal Mill	PM	67.5	50	W
		28.11.12	Crusher	PM	65.6	50	W
3.	MCCL, Sohra.	04.12.12	Packing House	РМ	27.3	150	W
		04.12.12	Cement Mill	PM	131.3	150	W
		04.12.12	Coal Mill	PM	168.5	150	А

W - Within Permissible Limits

5.0.3 AIR QUALITY MONITORING DURING DIWALI FESTIVAL

The Board conducted the Ambient Air quality monitoring on 7th November, 2012 (pre-Diwali) on the 13th November 2012 (Diwali day), and on the 27th of November 2012 (post-Diwali) day. Ambient Air quality was monitored at: (1) Meghalaya Legislative Assembly's premises, Police Bazar, Shillong, and (2) Board's Premises, Lumpyngngad, Shillong.

The findings of the monitoring results indicated that the concentrations of SO2 and NO2 at both the locations i.e. the Meghalaya Legislative Assembly's premises, Police Bazar and Board's Premises, Lumpyngngad were found to be within the prescribed limits of National Ambient Air Quality Standards during Pre- Deepavali, Deepavali and Post- Deepavali. However the concentration of PM10 was found to be above the permissible limits during Deepavali day at the Meghalaya Legislative Assembly's premises, Police Bazar. The concentration of PM10 was found to be higher on Deepavali day than on the normal day(s) which may be attributed to the burning and bursting of fire crackers and sparklers on that day. Monitoring results are shown in Table-5.0.4.1 and depicted in Fig. 5.0.4.1 and Fig. 5.0.4.2



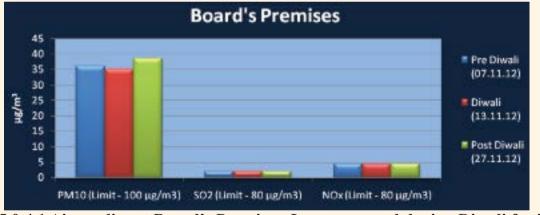
A - Above Permissible Limits

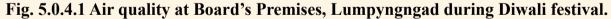


Table 5.0.4.1 - Ambient Air Quality during Diwali Festival 2012

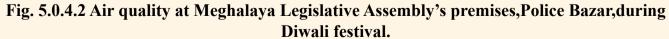
Parameter \rightarrow		SO_2			NO ₂			PM ₁₀	
Monitoring Day	Pre-	Deepavali	Post-	Pre-	Deepavali	Post-	Pre-	Deepavali	Post-
Date \rightarrow Location \downarrow	7.11.12	13.11.12	27.11.12	7.11.12	13.11.12	27.11.12	7.11.12	13.11.12	27.11.12
A. Board's Premises, Lumpyngngad	2.0	2.0	2.0	4.5	4.5	4.5	36.2	35.3	38.6
B. Assembly premises,Police Bazar	2.0	3.2	2.0	17.7	19.1	10.5	100.1	128.7	96.1
National Ambient Air Quality Standards		80			80			100	

All values of concentrations are in $\mu g/m3$ of air.









Meghalaya State Pollution Control Board

5.0.5 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 01.04.12 to 31.03.12 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
01.04.2012	Petrol-Driven LMV	2231	93.1 %	6.9 %
to 31.03.2013	Diesel-Driven LMV	1497	91.6 %	8.4 %

5.1 NOISE LEVEL MONITORING

1. Noise level monitoring of Industry/Firm/Org/Private.

The Board conducted Noise level monitoring of Industry/Firm/Org/Private, etc. during 2012-2013. The ambient Noise levels recorded are presented as follows Table-5.1.0

Table 5.1.0 : Noise level mo

Sl. No.	Name of Industry / Firm / Org / Private	Date of sampling	Location of Sampling	Obser val {dB(A)	ue	Prescribed Standard {dB(A) Leq}	Remarks
1.	M/S Ramky Infrastructure Ltd.,		Near Patching	Day	64.1	75	Within limits
		22.05.12	plant, Byrnihat	Night	45.6	70	Within limits
			Noise level from DG set		72.5	75	Within limits
			Wet mix plant,	Day	55.7	75	Within limits
		22.05.12	Umta.	Night	40.7	70	Within limits
		22.03.12	Noise level from DG set	-	65.6	75	Within limits
		22.05.12	Near Mobile 12 crusher,		67.4	75	Within limits
			Shangbangla.	Night	64.0	70	Within limits

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onitoring	of Ind	ustry/Firn	n/Org/	Private.
,	UI IIIG	usu y/1 11 1		1 11/ 410.

Annual Report 2012-2013

			Noise level from DG set	-	72.4	75	Within limits
		23.05.12	Overmy Limite	Day	57.2	75	Within limits
		23.03.12	Quarry, Umta.	Night	42.7	70	Within limits
			Near Mobile	Day	60.7	75	Within limits
		23.05.12	crusher, Umdihar.	Night	52.9	70	Within limits
		23.03.12	Noise level from DG set	-	65.3	75	Within limits
2.	Mawmluh Cherra Cement Ltd., Sohra.	22.01.13	Limestone mine(before	Day	64.4	75	Within limits
			blasting)	Night	50.0	70	Within limits
			Limestone	Day	78.1	75	Above Limits
		23.01.13	mine(during blasting)	Night	80.0	70	Above Limits

2. Noise Monitoring during Diwali festival :

The Meghalaya State Pollution Control Board, Shillong, conducted Ambient Noise Level tests during the Diwali festival on the 7th (before Diwali) and the 13th (Diwali day) of November 2012. The monitoring was in pursuance to the Government of India's Notification and the interim directions of the Hon'ble Supreme Court.

Study Area

The city selected for the above monitoring is Shillong, being the largest city and the capital of Meghalaya. The city is cosmopolitan, having a sizeable portion of its residents celebrating Diwali. The two locations selected in the city are Police Bazar (at the Meghalaya Legislative Assembly premises) and Lumpyngngad (at the Meghalaya State Pollution Control Board's premises).

Instrument used and methodology

The monitoring team was equipped with a Larson-Davis DSP 80 and a Lutron SL-4001 Sound Level Meters. The noise levels were measured in dB (A) i.e. the level of sound in decibels on scale – A, as per the human ear sensitivity requirements. The result was expressed in Lmin, Lmax and Leq, wherein Lmin indicates the minimum value of the sound level in decibels and Lmax the maximum value of sound level in decibels occurring during the single event and Leq denotes the A weighted energy mean of the noise level averaged over the measurement period.

The noise level was monitored for continuous 6 hours duration i.e. from 18:00 hours (i.e. 6:00 P.M.) to 24:00 hours (i.e. 12:00 P.M.) where Lmin, Lmax and Leg readings were recorded for every hourly interval. This was as per the Protocol specified by the CPCB, Delhi.

Meghalaya State Pollution Control Board

Findings

The findings of the monitoring are detailed in the tables and discussion below:

Table 5.1.1 L

Location:A		Normal Day]	Deepavali Day	y
Time duration	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr.	44.2	97.4	52.5	47.2	102.0	68.7
19:00 to 20:00 Hr.	45.4	93.0	54.3	48.2	105.9	69.0
20:00 to 21:00 Hr.	43.7	98.7	53.8	46.7	103.2	66.5
21:00 to 22:00 Hr.	42.9	87.8	46.5	48.5	108.8	63.8
22:00 to 23:00 Hr.	41.3	85.4	47.4	47.8	103.5	59.4
23:00 to 24:00 Hr.	42.3	92.0	44.6	42.4	98.5	51.2

Location:B		Normal Day		l	Deepavali Day	y
Time duration	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr.	51.7	103.2	69.9	55.0	109.9	72.3
19:00 to 20:00 Hr.	51.0	102.0	67.7	59.6	118.1	80.5
20:00 to 21:00 Hr.	52.1	91.2	60.2	57.6	117.7	75.7
21:00 to 22:00 Hr.	51.6	97.2	61.0	61.6	118.9	87.0
22:00 to 23:00 Hr.	50.8	96.2	59.7	62.5	120.0	86.2
23:00 to 24:00 Hr.	49.1	97.5	54.6	58.5	108.1	83.1

Location A (Lumpyngngad)

On Diwali day (i.e. 13th of November 2012) however, it is observed that, overall, the average equivalent noise level (Leq) is comparatively higher than that on the normal day. As per the monitored observations, the timing between 18:00 Hrs. (6:00 P.M.) to 22:00 Hrs. (10:00P.M.) displays noise level above the daytime residential standard limits of 55.0 dB(A) Leq.



ocation A: Lumpyngngad

Table 5.1.2 Location B: Police Bazar

As observed in the Table-5.1.1 above for Location A (Lumpyngngad), the monitored ambient noise level on a normal day (i.e. the 7th of November 2012) from 18:00 Hrs. (6:00 P.M.) to 22:00 Hrs. (10:00 P.M.) and from 22:00 Hrs. (10:00 P.M.) to 24:00 Hrs.(12:00 A.M.) is well within the standard limits of 55.0 dB (A) Leq for day and 45.0 dB(A) Leq for night time respectively.

Location B (Police Bazar)

As observed in the Table-5.1.2 above for Location B (Police Bazar), the noise level on a normal day (i.e. on the 7th of November 2012) is within the standard limits of 65.0 dB (A) Leq (daytime) during such timings as 20:00Hrs. to 22:00 Hrs. However, it is above the same standards during such timings as 18:00-20:00 Hrs. Again during the time slot from 22:00 Hrs. (10:00 P.M.) to 23:00 Hrs. (11:00 P.M.) the noise level is slightly above the night time standard limit of 55.0 dB(A) Leq. The higher level of sound monitored is due mainly to vehicular noise including horn noise.

On Diwali day (i.e. the 13th of November 2012), it is observed that the overall average equivalent noise level (Leq) is comparatively higher than that on the normal day. For all timings between 18:00 Hrs. (6:00 P.M.) through to 24:00 Hrs. (12:00 midnight), the monitored sound level is above the standard limits of 65.0 dB(A) Leq for daytime (up to 22:00 Hrs.) and 55.0 dB(A) Leq for night time (from 22:00 Hrs. onwards).

Therefore, from the above findings, it is observed that bursting of crackers etc. contributes to the overall increase of noise level in the environment. Besides there is an increase in the suspended particulate matters and chemicals etc. due to the bursting and burning of crackers, sparklers, etc.

5.3.0 WATER QUALITY MONITORING NETWORK

5.3.1 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 contribute to water pollution. Unorganized mining activities mainly of coal on a large scale in almost all the parts of the state is 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 is 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) are monitored. The monitoring of the water quality is 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 is done on monthly basis for surface and on half yearly basis for ground water. The regular parameters analysed include pH, Conductivity, Turbidity, Total Suspdeded 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 are analysed once a year in the month of April. The detail of the monitoring stations with regard to location is as mentioned in the table below:-

District	Name of Water Bodies	Locations of sampling station	Monitoring Frequency
Ri-Bhoi District	Umiam Lake	i. Outfall of Umiam River into lakeii. Near United Christian Collegeiii. Exit pointiv. Middle point	Monthly
	Umtrew River	i. Umran ii. Byrnihat	Monthly
East Khasi Hills District	Umkhen River	i. Wah Kdaitii Ksehpongdengiii. Diengpasoh	Monthly
	Umkhrah River	i. Demthring, Shillongii. Umkaliar, Shillongiii. Mawlai, Slaughteriv. Mawpdang,	Monthly
	Umshyrpi River	i. Risa colonyii. Law college, Dhanketiiii. Umshyrpi, Bridge	Monthly
	Umiam Mawphlang River	i. Nongkremii. Umtyngngariii. Mawphlangiv. Shella	Monthly
	Ward's Lake	Shillong	Monthly
	Umngot River	i. Smit ii. Dawki	Monthly

TABLE 5.3.0 – Wa



ter	Quality	Monitoring	Stations
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Annual Report 2012-2013

West Khasi Hills Dis- trict	Nonbah river	i. Nongstoin, Marketii. Phod sohsatiii. Sohiong	Monthly
	Kynshi river	i. Nongkhnum ii. Ranikor	Monthly
	Rilang River	Mawkyrwat	Monthly
	Wah Blei	i. Riangdo ii. Shdaddkhar	Monthly
Jaintia Hills District	Lukha River	i. Lunar at Myndihati(Tributary of Lukha)ii. Sunapur	Monthly
	Myntang River	i. Mynso ii. Nartiang	Monthly
	Myntdu River	i. Jowai ii. Leshka	Monthly
	Thadlaskein Lake	Mukhla	Monthly
	Kyrhukhla River	Khliehriat	Monthly
East Garo Hills District	Damring River (Krishnei)	Resubelpara	Monthly
	Manda (Dudhnai) River	i. Jampa ii. Wagaisi	Monthly
	Tasek Lake	Songsak (Naphak)	Monthly
	Simsang River	Williamnagar	Monthly
South Garo Hills District	Bugi River	i. Mibanpara ii. Dalu	Monthly
West Garo Hills	Ganol River	Tura	Monthly
	Ground	Water	-
East Khasi Hills District	Police Bazar spring	Shillong	Half yearly
	Mawpdang spring	Shillong	Half yearly
	Wah U Dkhar spring	Sohra	Half yearly
Jaintia Hills District	Umsahep spring	Shangpung	Half yearly
Ri-Bhoi District	Narbong well	Byrnihat	Half yearly
South West Khasi Hills	Mawthadrishan well	Markasa	Half yearly
District	Jakrem Hot Spring	Jakrem	Half yearly

Based on the monitoring data (*Table-5.3.1*) the water quality of the sampling stations district wise is as described below.

• Water quality of rivers in East Khasi Hills

17(Seventeen) sampling stations are 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 is 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 Ammonia Nitrogen concentration was observed to be above 1.2mg/l in Umkhrah and Umshyrpi rivers which is the maximum limit for propagation of wildlife and fisheries. The monitoring results indicated that organic and Bacteria are the main pollutants in the water bodies. This is 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 is much beyond their assimilative capacity and thus has 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 relatively good as and can still be put for various beneficial purposes although it is not recommended to use directly for drinking purposes unless treated and disinfected by an organized water supply system.

- Water quality of rivers in West Khasi Hills organized water supply system.
- Water quality of rivers in Ri Bhoi



8(eight) sampling stations are located in West Khasi Hills.In all the monitored locations the pH was observed to be in the normal range of 6.5to 8.5.The dissolved Oxygen content in all monitored rivers was always above 4mg/l ,which is 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 is 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 is relatively good and can still be put for various beneficial purposes although it is not recommended to use directly for drinking purposes unless treated and disinfected by an

6(Six) sampling stations are 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 is 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 is generated in the Shillong city through the two rivers viz Umkhrah and Umshyrpi rivers where as the Umtrew river is 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 is relatively good and can still be put for various beneficial purposes although it is not recommended to use directly for drinking purposes unless treated and disinfected by an organized water supply system.

• Water quality of rivers in Jaintia Hills

8(eight) sampling stations are located in Jaintia Hills. The pH in (i)Myntdu river at Leshka (ii) Lunar river at Myndihati (iv) Kyrhukhla river at Lad-Rymbai (V) Lukha at Sunapur was observed to be very low, with the minimum value of 2.2 recorded at Lunar river at Myndihati during the dry months of April. Low pH indicates that water is acidic in nature which is mainly due to acid effluent from coal mines located on the catchment and in the upstream side the dissolved Oxygen in all monitored rivers was always above 4mg/l, which is 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)Lukha river at Sonapur(iii) Lunar river at Myndihati (iv) Kyrhukhla river at Lad-Rymbai cannot be put to any beneficial uses. The water quality of other water bodies is relatively good and can still be put for various beneficial purposes although it is not recommended to use directly for drinking purposes unless treated and disinfected by an organized water supply system.

• Water quality of rivers in Garo Hills

8(Eight)) sampling stations are 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 is 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 is relatively good and can still be put for various beneficial purposes although it is not recommended to use directly for drinking purposes unless treated and disinfected by an organized water supply system.

Ground water Quality

A total of 7(Seven) ground water located all over the state is monitored .The water of all the monitored sources are used for different purposes. As per the monitoring results (Table 5.3.2), the sources were affected by bacterial contamination which is probably caused by percolation of polluted surface water. The concentration of Iron was recorded to be high at Narbong well which probably due to the geology of the area. Low pH value at Mawpdang spring may be attributed to the bacteriological contamination of water. The pH level at hot spring Jakrem is recorded to be high which is probably due to increased solubility of salts in hot water. Flouride concentration was also recorded to be high at this hot spring which is the characteristic of any hot spring.

	Table 5.3.1 : Water Quality Data of NWMP Stations (Surface water) During 2012	l : Wa	ter Qu	ıality l	Data o	f NWN	AP Sta	tions	(Surf	ace wa	ter) Dui	ring 2012				
Name of Riv-	:		Ηd		Disse	Dissolved Oxygen	ygen		BOD		Total	Total Coliform (MPN/	MPN/	Ammoi	Ammoniacal Nitrogen	rogen
ers	Location	Min	Min Max	Avg	Min		Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
	Nongkrem	6.5	7.2	6.9	6.8	8.6	7.5	1.2	2.2	1.88	29	70	50	0.25	1.2	0.56
Umiam	Umtyngngar	7.0	7.0 7.4	7.16	7.0	9.0	7.93	1.0	2.2	1.68	29	60	44.5	0.2	0.45	0.30
Diver	Mawphlang	7.0	7.5	7.23	7.2	8.6	7.95	1.0	2.0	1.44	23	38	31	0.1	0.4	0.20
	Shella	6.7	7.4	7.1	6.0	9.8	7.68	0.9	2.2	1.49	10	110	43.4	0.07	0.4	0.25
	Smit	6.6	6.6 7.3	6.96	7.0	9.8	7.99	0.8	1.8	1.35	17	60	41.3	0.15	0.5	0.33
	Dawki	6.8	6.8 7.4	7.1	7.4	9.8	8.35	0.8	1.64	1.24	20	63	45.4	0.19	0.41	0.28
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Annual Report 2012-2013

Meghalaya State Pollution Control Board

Districts

	Fact	Khasi	Hills										west vbasi	NIASI Hille	emm		
Umkhen river		Ward's Lake		T T 1-11-	UIIIkuran River			Umshyrpi Diroz	NIVEL		River Kynshi		River Rilang	River	Nanbah	Dirror Widdelei	
Umkhen river Ksehpongdeng	Diengpasoh	Shillong	Demthring, Shillong	Umkaliar, Shillong	Mawlai, Slaughter, Shillong	Mawpdang,Shillong	Risa colony, Shillong	Law college, Dhanketi Shillong,	Umshyrpi, Bridge, Shillong	Sohiong	Nongkhnum	Ranikor	Mawkyrwat	Nongstoin, Market	Phod sohsat	Riangdo	Shdaddkhar
6.7	6.7	6.7	6.5	6.6	6.5	6.8	6.7	6.7	6.8	6.5	6.7	6.7	6.9	6.6	6.9	6.9	6.5
7.4	7.5	7.7	7.4	7.4	7.3	7.3	7.5	7.2	7.5	7.3	7.4	7.1	7.3	7.2	7.4	7.2	7.4
7.0	7.0	7.2	7.0	7.05	7.1	7.0	7.12	7.0	7.1	6.96	7.0	6.96	7.0	6.9	7.1	7.1	7.1
6.4	6.8	5.0	2.4	3.0	0.4	1.0	5.4	Nil	1.4	7.0	6.6	7.6	7.2	3.5	6.6	6.0	7.0
1	9.6	10.6	5.6	6.8	5.0	4.2	8.6	4.4	6.8	9.0	8.6	9.2	8.8	8.5	9.4	8.4	8.2
6.4	7.8	7.5	3.85	4.9	2.7	2.5	6.77	1.55	3.96	7.66	7.7	8.27	8.0	6.3	7.6	7.6	7.67
0.5	0.8	5.3	11.0	5.6	12.5	13.8	0.6	14.5	8.0	0.8	1.0	0.8	0.8	1.4	0.8	1	0.95
2.0	2.0	10.0	30.0	26.0	75.0	100.0	2.8	95.0	80.0	1.6	2.0	3.5	1.9	4.0	2.0	2.4	5.6
1.2	1.45	7.1	16.9	14.2	35.4	37.2	1.9	45.58	22.3	1.25	1.4	1.77	1.35	2.64	1.36	1.6	2.1
16	26	2700	9x103	10x103	20x3103	40x103	24	32x103	10x103	14	2	19	14	140	6	8	10
46	63	4400	34x103	21x103	112x3103	160x103	55	140x103	93x103	48	48	50	38	1100	42	39	46
32	26	3633	34x103	15.5x103	62x3103	87x103	37.7	85x103	45x103	27	22.6	33	25	549	23	22	28
0.15	0.11	0.2	3.15	0.5	3.7	3.2	0.1	1.0	2.3	0.13	0.13	0.15	0.11	0.24	0.134	0.14	0.1
0.45	0.45	0.8		10.6	24.0	33.3	0.8	30.3	16.7	0.6	0.4	0.37	0.41	0.76	0.66	0.4	0.3
0.27	0.28	0.37	11.35	4.27	10.16	15.28	0.294	13.39	7.92	0.34	0.28	0.27	0.23	0.41	0.31	0.26	0.21

Tyson Jon Wynne environment sense of responsibility towards our total We must develop a better

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2.6 0.9	0.75 0.43	0.5 0.32	1.07 0.50	0.64 0.32	┝	0.55 0.35	0.5 0.32	0.23 0.14	0.37 0.20	0.54 0.24	0.31 0.19	0.96 0.23	0.78 0.36	0.37 0.25	0.3 0.215	0.4 0.23	0.3 0.22	0.35 0.25	0.4 0.265	0.42 0.25	032 0.23
0.2 2	0.2 0.	0.14 0	0.2 1.	0.14 0.	0.13 0.	0.23 0.	0.2 0	0.06 0.	0.05 0.	0.06 0.	0.04 0.	0.04 0.	0.15 0.	0.2 0.	0.15 0	0.08 0	0.15 0	0.18 0.	0.1 0	0.06 0.	0 1 2 0
4435	3485	2850	3800	83	437	10	350	40	33	2600	20	57	33	55	35	36.3	26	418.3	50	44.5	408.3
5500	5000	3600	4800	180	700	17	600	60	53	3500	36	79	44	84	55	60	42	550	79	75	540
3300	2300	2500	2600	10	320	2	24	20	19	1900	12	29	20	29	20	22	17	270	35	20	750
8.85	7.4	7.16	7.9	1.96	6.6	3.2	2.1	1.7	1.64	2.4	1.7	1.9	6.8	1.5	1.45	1.95	1.44	1.7	1.83	1.85	1 6
10.2	9.4	8.8	10.8	2.6	8.2	6.0	3.0	2.4	2.2	3.1	2.5	2.5	10.8	2.0	2.2	2.4	2.4	2.4	2.4	2.2	26
6.5	5.8	5.5	5.8	0.8	5.4	1.4	1.0	0.8	0.8	1	0.84	1.2	5.6	0.8	1.0	1.2	0.8	1.0	0.8	1.0	16
5.6	7.0	7.15	6.85	7.55	7.7	6.9	7.7	7.5	7.7	7.0	7.45	7.4	5.5	7.9	7.8	7.3	7.6	7.9	7.65	7.6	76
6.6	8.5	8.2	8.1	8.6	9.2	8.5	8.4	9.8	10.0	8.2	9.6	8.2	7.0	9.2	8.6	8.0	9.0	8.4	9.6	9.2	82
4.6	6.0	6.4	5.4	6.4	6.5	5.5	7	6.5	6.6	5.8	6.2	6.2	3.5	6.8	7.2	6.5	6.5	7.2	6.8	7.0	7 0
7.13	7.16	7.3	7.15	7.1	7.16	2.58	6.28	7.0	7.1	6.95	6.2	7.0	2.9	7.22	7.25	7.3	7.42	7.2	7.16	7.2	737
7.3	7.3	7.6	7.4	7.5	7.5	2.9	7.0	7.2	7.5	7.3	7.2	7.3	3.4	7.3	7.7	7.7	8.2	7.5	7.9	7.7	77
7.0	7.0	7.0	6.9	6.8	6.9	2.2	4.8	6.7	6.8	6.6	5.2	6.7	2.3	7.1	6.2	7.1	6.8	6.8	7.0	7.0	7 0
Outfall of Umiam river into lake	Middle point	Near United Christian College	Exit point	Umran	Byrnihat	Lunar at Myndihati (Tributary of Lunar)	Sunapur	Nartiang	Mynso	Jowai	Leshka	Mukhla	Khliehriat	Resubelpara	Jampa	Wagaisi	Songsak (Naphak)	Williamnagar	Mibanpara	Dalu	Tura
		Umiam lake				River Lukha		River	Myntang		kiver Myntdu	Thadlaskein lake	River Kyrhukhla	Damring River (Krishnei)	Manda	(Dudhnai) River	Tasek Lake	Simsang River	Ruai Dirror	Dugi Myei	Ganol River
		Ri-Bhoi							Iaintia	Hills							Hills				

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34

Meghalaya State Pollution Control Board

Table 5.3.2 - Average Water Quality Data

Districts	Name of Rivers	Location	рН	Conductivity (µmho/cm)	Turbidity (NTU)	Flouride (mg/l)	Iron (mg/l)	Total Coliform (MPN/ 100ml)
East Khasi Hills	Dreamland Spring	Police Bazar, Shillong	7.0	210.0	1.1	0.57	0.2	55
	Mawpdang Spring	Shillong	6.1	235.0	1.0	0.066	0.24	79
	Wah-U-Dkhar Spring	Sohra (Cherrapunjee)	6.2	87.0	0.7	0.18	0.14	29
West Khasi	Artesian Well	Mawthadrishan	7.0	24.0	7.0	0.03	0.16	19
Hills	Hot Spring	Jakrem	8.8	310.0	1.2	25.0	0.24	9
Ri-Bhoi	Narbong Well	Byrnihat	6.5	215.0	2.2	0.04	0.65	37
Jaintia Hills	Umsahep Spring	Bapung	6.5	108.0	0.65	0.05	0.22	22

Besides the regular programme, the Board is also monitoring the water quality of other water bodies in the state which are used for different purposes and subjected to different kind of pollution. During the year 2012-2013 the water quality status of the following rivers were prepared.

- lawsohtun east khasi hills district.
- amdap' stream, new nonglamin, on the 10th of october, 2012.
- iv. Report on the status of the water quality of river umsohlang.



a of NWMP Stations (Ground Resources) during 2012	a of NWMP Stations (Ground Resources) during 2012
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i. A report on the water quality of kynshi river & its feeding streams, west khasi hills district.

ii. A report on the water quality of the discharge from 101 area and the receiving water body viz umjasai stream & the discharge from109area & receiving water body viz phudphader,

iii. A report on the sampling, analysis and result of the water samples collected from the 'wah

Annual Report 2012-2013

Kynshi River at Nongkhnum



Kynshi River at Ranikor (Before confluence with Rilang river)



Confluence of Kynshi & Rilang Rivers at Ranikor



Kynshi River at Ranikor(Near Ferry Ghat)



Wahblei River at Shaddkhar



Rilang River at Ranikor

Meghalaya State Pollution Control Board







Photo.5.3.3 50m downstream of the confluence point of water coming from Station 1 and Station 2, **Umshing**, Mawlai



Photo 5.3.1: Upstream of Umsohlang (Umshing, Mawlai)



Photo.5.3.2 : Umjan Stream (Umshing, Mawlai)





Photo.5.3.4 100m upstream of PHE tapping point, river Umsohlang



Photo.5.5.5 50m upstream of PHE tapping point, river Umsohlang

5.4.1 Industrial Monitoring

The Board monitored the waste water of the following industries:

- 1. Shillong Club & Residential Quarter, Shillong
- 2. M/S D.H.Royal Car Mawblei,

Shillong

3. Shillong Club Staff Quarter, Shillong

5.5.1 Analysis of water samples received from Government Department and other Private organization.

The Board is also engaged in analysis of water samples received from different Govt departments, private agencies, public etc. A total of 342 samples were tested during the year 2012-2013.

Meghalaya State Pollution Control Board

E PRESENT STATE OF THE ENVIRONMENT, ENVIRONMENTAL PROBLEMS AND COUNTER MEASURES

Meghalaya is a Hill State located in the North-Eastern region of the Country. It covers an area of about 22,429 Sq.kms. and its population as per 2011 census is 29, 66, 889 lakhs. Meghalaya is rich in mineral resources and the main minerals are coal and limestone, which are found in almost the entire southern belt of the state. Mining activities are mostly in private hands and as such coal and limestone are being exploited in an unscientific and unplanned manner without any measures for reclamation of mined areas. Such mining activities have been causing severe water pollution and environmental degradation in the mining areas. The numbers of industries has been increasing manifold over the past few years in the state, from small scale stone crushing unit to large scale cement industries and from small scale sand, stone boulder quarrying to large scale limestone and coal mining in the recent years giving rise to the ecological imbalance in certain parts of the State.

Under the large-scale industrial sector, cement plants falls under the 17 categories of highly polluting industries. The others are 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.

The Board is regulating the discharge of effluents and air emissions from industries through the issuance of Consents to Establish/Operate under Water & Air Acts. While issuing Consents, conditions are being imposed with regard to the effluent and the emission standards to which industries have to comply with. Conditions are also stipulated for setting up effluent treatment plants and/or installing of air pollution control systems whenever they are found necessary. However, Most of the lime calcination units are coal–fired kilns of traditional types (pajwa), which do not have even hood and chimney for venting out the smoke. In case of these units the impact of air pollution is regulated through implementation of siting norms.

The Board periodically collects and analyses effluent samples for verification of compliance to the consent conditions by industrial units. The industries are also instructed to ensure that pollution control systems, whenever necessary, are installed and commissioned within a stipulated period. The industries are also instructed to install the water meter to measure the usage of water by the unit and are also asked to furnish the monthly water consumption returns to the Board for assessment of cess as per Section 6 of the Water (Prevention and Control of Pollution) Cess Act, 1977 and Amendment Act, 1991 and amendment Act, 2003



In respect of new Projects, "Consents to Establish" are issued only after examining the suitability of the sites and scrutiny of the pollution control proposals. Besides, the Board is encouraging the industries to adopt cleaner production techniques based on re-cycle, re-use, and recover concepts.

During the year 2012-2013 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-4 and Annexure – 6 respectively.

Rapid population growth and fast urbanization has also contributed towards the ecological imbalance in the urban areas of the state in the form of indiscriminate disposal of solid wastes, sewage and trade effluent.

Inadequte infrastructural facilities for management of urban solid wastes coupled with lack of awareness of the people on the adversed impact of improper wastes disposal on the environment leads to indiscriminate dumping of garbage both in the state capital and other towns of the state.

In absence of sewerage system and sewage treatment and disposal facilities both in the state capital and other towns of the state, domestic sewage and trade effluents are indiscriminately discharge into the natural drains, streams and rivers. Consequently, the water quality of the streams/rivers in the state capital and other towns of the state are adversely affected.

In the last two decades, it has been well established that the wastes generated from the health care facilities known as Bio-Medical Wastes are posing an adverse effects on the human health and as well as the environment if not properly handle and manage in a scientific manner. Thus, prompting the government to implement new ways of scientific management of bio-medical wastes by way of notifying the Bio-Medical Waste (Management & Handling) Rules, 1998 under the Environment (Protection) Act, 1986.

In recent years the state has witnessed the rapid increase in numbers of hospitals, nursing homes, health care facilities both in the public and private sector. However, the development in health care units is without proper methods of segregation, collection, transportation, treatment and disposal of the Bio-medical wastes. As a result, such development is posing great risk to human health and may also create environmental pollution in the state.

In excersise of the power conferred under Section 5 of the Environment (Protection) Act, 1986, the Board has issued direction to all health care units to apply for authorization in the prescribed Form-I as required under Rule 8(1) of the Bio-Medical Waste (Management & Handling) Rules, 1998 so as to ensure that the handling and management of Bio-Medical Waste in accordance to the standards prescribed under above mentioned Rules. The status of total number of health care facilities etc., in the state is given in Chapter-10.

Meghalaya State Pollution Control Board



ENVIRONMENTAL RESEARCH

During the year 2012-2013, the Board continued with the following study projects:-

- A. in Jaintia Hills : Compilation of the project report is under progress.
- В. Compilation of the project report is under progress.
- **C**. under process.
- D. Assessment of Ground Water Quality.



Studies and Evaluation of Environmental and Socio-Economic Impact of Coal Mining

Ambient Air Quality Monitoring at Export Promotion Industrial Park (EPIP), Byrnihat:

Assessment of Noise in Major Cities/Towns in the State : Preparation of progress report

ENVIRONMENTAL TRAINING

rivironmental Training is one of the important tools in the administrative system of the Board. **L**The personnel of the Board who had undergone different training programmes within the country as well as overseas have acquired knowledge, skills, concepts, rules, and enhanced the capacity building in the Board. The personnel of the Board are also invited as experts and resource person for delivering lectures and presentations on various environmental issues by reputed institutes/organizations in the state. The Environmental Training attended by the Board's officials during the year 2012-2013 is shown in the following table.

Name of the Official	Designation	Place of Training	Name of the Training	Date of Training
Smti B.Majaw	Environmental Engineer	Study tour to Norway & Switzerland	Recovery of alternative fuels and raw materials and treatment of organic hazardous wastes through co- processing in resource and energy intensive industries in India	23-30 June 2012
Dr (Miss) Donnycia Tariang	Junior Scientific Asstt –II	New Delhi	Managing information in the digital age	18-22 December 2012
Shri James Frankly Lamurong	Asstt. Environmental Engineer	New Delhi	Environmental data interpretation, compilation, analysis, presentation and reporting	28 Jan-1 February 2013

Meghalaya State Pollution Control Board

9 ENVIRONMENTAL AWARENESS & PUBLIC PARTICIPATION

1. World Environment Day 2012

The Meghalaya State Pollution Control Board, Shillong, together with the rest of the world celebrated the occasion by holding a 'Free Vehicle Emission Test Camp' at Jowai, Jaintia Hills District, on the 5th of June, 2012. Both petrol and diesel driven vehicles were tested during this one day programme and the total number of vehicles tested was 251. Out of the 251 nos. of vehicles tested, 208 nos. were found to be emitting exhausts within the Emission standard limits while 43 nos. were found to be emitting exhausts above those limits (Table 9.1).



Overview of the camp







Emission test of Diesel driven vehicle in progress

Emission test of Petrol driven vehicle in progress

The number of petrol vehicles tested was 201 while the no. of diesel vehicles was 50. Out of the 201 nos. of petrol driven vehicles tested, 170 nos. were found to be emitting exhausts within the permissible Emission standards while 31 nos. were found to be emitting exhausts above Emission standards. Of the 50 nos. of diesel vehicles tested, 38 nos. were found to be emitting exhausts within the Emission standards while 12 nos. were found to be having emissions above the limits. The vehicles which are complying to the emission standards were issued with a 'Green Certificate' and a "Pollution Under Control" sticker with a validity of 6(six) months from the date of issue, and vehicles found to be having emissions above the Emission standards were advised to have their vehicles checked and undergo necessary 'tuning' of the engine so that their vehicles can be brought within the 'pollution under control' category.

Table 9.1Numbers of Petrol and Diesel Driven Vehicles tested on the occasionWorld Environment Day, 2012

Type of Vehicles tested	Total nos. of vehicles tested	Nos. of Vehicles within Permissible Limit	Nos. of Vehicles above Permissible Limit	Percentage of Vehicles within Permissible Limit	Percentage of Vehicles above Permissible Limit
Petrol Driven	201	170	31	84.5 %	15.5%
Diesel Driven	50	38	12	76%	24%
TOTAL	251	208	43	82.8%	17.2%

Apart from Vehicular Monitoring the Board also conducted air sampling from 4th to 5th June, 2012, at the Police station, Jowai, to assess the ambient air quality of the area. It was observed that the concentration of pollutants viz. Particulate Matter (PM10), Sulphur Dioxide (SO2) and Nitrogen Dioxide (NOx) are within the permissible limits of National Ambient Air Quality standards (Fig. 1). Although the location of the sampling station is in a busy commercial area with a high density of vehicles, yet the concentration of the pollutants are well within the permissible standards which is due to the rainy weather conditions on the sampling days.

Meghalaya State Pollution Control Board



Overview of the camp

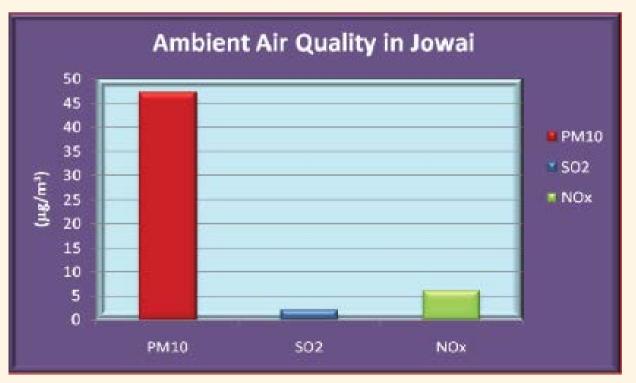


Fig. 9.2 Ambient Air quality monitored at Jowai during World Environment Day 2012.





OTHER ACTIVITIES OF THE BOARD

10.1 Bio-Medical Waste (Management & Handling) Rules, 1998.

The Board, as the prescribed authority for implementation of the Rules has to perform the following functions & activities:-

- Inventorisation of sources generating bio-medical waste.
- Issuance of authorization to institutions generating bio-medical waste.



- Monitoring of compliance to the **Segregation of different categories of Bio-Medical Wastes** prescribed norms and standards for in a Hospital in Shillong handling and management of bio-medical waste by the concerned institutions.
- Advice the Government for setting up of common facility for treatment and disposal of biomedical waste.
- Enforcement of the provisions of the Rules in the State.
- Submission of Annual Status Report on management of bio-medical waste in the State to the Central Pollution Control Board.

10.1.1 The Status of Bio-Medical Waste In the State for the year 2012-2013:-

- 1. The total number of Health Care Facilities in the state is 699.
- 2. There are 6049 numbers of beds in the hospitals of the state.
- 3. The Total number of Bedded Hospitals is 169. Non-Bedded Hospitals (Dispensary/Sub-centers) is 440 numbers. While Veterinary Hospitals/Research Organisations/Clinics/Diagnostic Centres, Pathological Labs, etc., account for 90 numbers.
- 4. 27 numbers HCFs are utilizing Common Bio-Medical Waste Incinerator installed at Mawiong, Shillong by Shillong Municipal Board.
- 5. The total quantity of BMW generated per day is reported at 651.9 Kgs.
- 6. The total quantity of Bio-Medical wastes treated and disposed per day is reported at 651.9 kg.

Meghalaya State Pollution Control Board

10.2 Municipal Solid Wastes (Management & Handling) Rules, 2000

The functions of the Board under the Rules include:-

- Issuance of Authorization to the municipal authorities or the operator of a facility for setting up of waste processing and disposal facility and landfills.
- Monitoring the performance of waste processing and disposal facility including compliance with the standards in terms of ground water, ambient air, leachate quality, compost quality, etc.
- Submission of Annual Status Report on management of MSW in the State to the Central Pollution Control Board.

10.2.1 The Status of Municipal Solid Waste in the state for the year 2012 - 2013:-

- 1. The total number of Municipal Authorities in the State is 7.
- granted is 3 and 1 has not yet granted.
- State.
- 5. There are no Waste-to-Energy projects so far.

10.3 Environmental Public Hearing

The Environmental Public Hearing conducted in the state in accordance to the provisions of the EIA, Notification, 2006 relating to the application for grant of Environmental Clearance by MoEF & CC, New Delhi and the State Environmental Impact Assessment Agency, Meghalaya are as follows :-

1. Meghalaya Energy Corporation Ltd.

PROJECT TYPE	: Umngot Hydr
CAPACITY	: 3x80 MW
LOCATION	: Moosakhia, Ja
DATE OF HEARING	: 20th April 20





Collection of Solid Wastes from door to door in Riatsamthiah, Shillong by the **Shillong Municipal Board** Photo courtesy; Shillong Municipal Board

2. The total number of Application received from Urban Local Bodies (ULBs) is 4 and Authorisation

3. Presently there is 1 (one) Vermicompost and 1 (one) mechanical compost plant operating in the

4. There are 6 (Six) open dumping sites in the State, while 1(one) landfill site has been identified.

lro Electric Project

Jaintia Hills District)12

Annual Report 2012-2013



Environmental Public Hearing for the proposed 3x80 MW Umngot Hydro Electric Project Proposed by the Meghalaya Energy Corporation Ltd., at Moosakhia, Jaintia Hills District on 20th April 2012.

2. Meghalaya Energy Corporation Ltd.

PROJECT TYPE	: Umngot Hydro Electric Project
CAPACITY	: 3x80 MW
LOCATION	: Siangkhnai, East Khasi Hills District
DATE OF HEARING	: 24th April 2012



Environmental Public Hearing for the 3x80 MW Umngot Hydro Electric Project Proposed by the Meghalaya Energy Corporation Ltd., at Siangkhnai, East Khasi Hills District on 24th April 2012



3. National Highway Authority of India (NHAI)

PROJECT TYPE	:	Proposed rehal
		with paved sho
		173.20) section
CAPACITY	:	69.2 Km and 1
LOCATION	:	Madan Latein,
		Higher Second
DATE OF HEADIG		51 0 1 0





Annual Report 2012-2013

Section of the public attended the Environmental Public Hearing for the 3x80 MW Umngot Hydro Electric Project Proposed by the Meghalaya Energy Corporation Ltd., at Siangkhnai, East Khasi Hills District on 24th April 2012

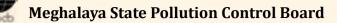
abilitation and upgradation of existing 2 Lane to 2 Land oulder from Jowai (KM 69.2) to Meghalaya/Assam (KM on of NH-44 in the state of Meghalaya by NHAI.

173.20 Km

, Ialong village, West Jaintia Hills District & Khliehriat dary School, East Jaintia Hills District

DATE OF HEARING : 5th October 2012 and 18th October 2012

Environmental Public Hearing for the proposed Rehabilitation & Upgradation of Existing 2 Lane to 2 Lane with paved shoulder from Jowai (KM 69.2) to Meghalaya/Assam (KM 173.20) section of NH 44 Proposed by the National Highway Authority of India at Madan Latein, Ialong village, West Jaintia Hills District on the 5th October 2012



Annual Report 2012-2013

<section-header>

Environmental Public Hearing for the proposed Rehabilitation & Upgradation of Existing 2 Lane to 2 Lane with paved shoulder from Jowai (KM 69.2) to Meghalaya/ Assam (KM 173.20) section of NH 44 Proposed by the National Highway Authority of India at Khliehriat Higher Secondary School, East Jaintia Hills District on the 18th October 2012



Section of the Public attended the Environmental Public Hearing for the proposed Rehabilitation & Upgradation of Existing 2 Lane to 2 Lane with paved shoulder from Jowai, Meghalaya to Assam section of NH 44 Proposed by the National Highway Authority of India at Khliehriat Higher Secondary School, East Jaintia Hills District on the 18th October 2012

Meghalaya State Pollution Control Board

4. Nilanchaal Cements (P) Ltd

PROJECT TYPE	:	Proposed integ
		30 MW captiv
		District
CAPACITY	:	1.0 MTPA cen
LOCATION	:	Umlong villag
DATE OF HEARING	:	7th November



Environmental Public Hearing held at Umlong village, East Jaintia Hills on 7th November 2012 for the proposed 1.0 Million TPA of integrated Cement Plant & 30 MW Captive Power Plant proposed by M/s Nilanchal Cement (P) Ltd



egrated cement plant with 1.0 MTPA cement plant and we power plant at Umlong village in East Jaintia Hills

ment plant and 30 MW captive power plant ge in East Jaintia Hills District er 2012

Meghalaya State Pollution Control Board

11



11.1 CASES IN COURTS INVOLVING THE MEGHALAYA STATE POLLUTION **CONTROL BOARD**

Cases on Environmental Issues filed in the Courts, have 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 indirect involvement in a case, the MSPCB answers, furnishes information and submits reports to the State Government or Central Pollution Control Boards (CPCB).

There are cases where the Courts have 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 involving the MSPCB are pending in the Hon'bl Supreme Court and the High Court are highlighted as follows in the tables below:-

11.1.1 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 2012-1013 :-

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 furnishes information/ paragraph -wise comments through the State Government.
2.	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.
3.	 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 	(Management and Handling) Rules, 2011 and the	Pollution Control Boards became impleaded vide Order Dt. 3-4-2013- filing affidavits.

10.4 Functions & Activities under Water (Prevention & Control of Pollution) Cess Act, 1977.

- The function of the Board under the Act and Rules made there under is to assess and collect a cess from Local authorities/bodies and Industries consuming water for domestic and industrial purposes.
- During the total amount of Cess assessment is `7, 60,314/- (Rupees Seven lakhs sixty thousand three hundred fourteen) only and Cess collection is `3, 68,577/- (Rupees Three lakhs sixty eight thousand five hundred seventy seven) only. The Cess collection is less than the assessment in view of the fact that the local authorities' viz. SMB & GHADC and MeSEB has not made any payment to the cess bills submitted to them.
- The Cess collected is remitted to the consolidated fund of India through Ministry of Environment & Forests, Government of India.



LEGAL MATTERS

Annual Report 2012-2013

Meghalaya State Pollution Control Board

4.	Writ Petition (civil) No. 512 of 2002. IN RE Writ Petition (C) No. 668 of 2002.	Rivers, Nationalize all Rivers in country with a view to deal with the flood in one	MSPCB anticipates directs/intimations from the State Government which is a member of the committee created vide Order Dt. 27th February, 2012.
5.	Writ Petition (C) No. 657 of 1995	Hazardous Waste.	Complying to directions of the Court and recommendations of the Supreme Court Monitoring Committee through the Central Pollution Control Board.
6.	Writ Petition (civil No. 309 of 2003. Laxmi Narain Modi Vs. Union of India & Ors. With WP (C) No. 330 of 20 01.With WP(C) No. 44 of 2004 With WP(C) No. 688 of 2007.	Slaughter House.	Complying to the directions and submitting report through the Central Pollution Control Board and through Committee at state level.

In Writ Petition (civil) No. 512 of 2002. IN RE Writ Petition (C) No. 668 of 2002, Writ Petition (C) No. 657 of 1995 and Writ Petition (civil No. 309 of 2003 and Laxmi Narain Modi Vs. Union of India & Ors. With WP (C) No. 330 of 20 01. With WP(C) No. 44 of 2004 & With WP(C) No. 688 of 2007, the MSPCB furnishes information to the Committees formed by the Supreme Court or through the Central Pollution Control Board or the State Government.

Whereas in Ankur Gutka -Vrs- Indian Asthma Care Society the MSPCB got impleaded vide Order Dt. 3-4-2013 and became direct respondent . Affidavit was filed in the Registry of the Hon'bl Supreme Court on the status implementation of the Plastics Waste (Management and Handling) Rules,2011 and the Municipal Solid Waste (Management and Handling) Rules,2000.

11.2.1 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 during 2012-1013 :-

Sl. No.	Name of the Case	Subject Matter	Involvement
1.	W.P.(C) No. 12 (SH) of 2005, Shri. Ronald Rikman Sangma .Vs. The Sate of Meghalaya & Ors	Closure Notice of MSPCB on Hotel of Petitioner Shri. Ronald Rikman Sangma, Tura.	Direct Respondent
2.	PIL No. (SH) 5 of 2012, The Hima Langrin Youth Welfare Organisation Vs. Sate of Meghalaya & Ors.		Direct Respondent – filing affidavit and complying to directions of the court.
3.	PIL No. 16 /2011, Relief and Rehabilitation Colony Welfare Society. Vs. The State of Meghalaya and Ors.	Deep Tube Wells and Underground Water etc.	Proforma Respondent
4.	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	MSPCB direct Respondent and filing affidavit SEIAA direct Respondent and filing affidavit.
5.	PIL No.88/2010, Shri Sawang Lamurong & Ors. Vs. State of Meghalaya & Ors. Gauhati High Court, (Shillong Bench).	e ,	MSPCBisdirectRespondent-filingaffidavit and complying tothe directions of the court.
6.	WP(C)96 of 2012. Mawiong Umjapung Village Vs. State of Meghalaya & Ors. The High Court of Meghalaya.		MSPCB is direct Respondent – filing affidavit and complying to directions of the court.
7.	W.P.(C) Suo Moto (SH) NO. 76 of 2012, Environmental Pollution and Health Hazard in the State Vs- State of Meghalaya & Ors.		Answering through the State Government.

In W.P.(C) No. 12 (SH) of 2005, Shri. Ronald Rikman Sangma .Vs. The Sate of Meghalaya & Ors, PIL No. (SH) 5 of 2012, The Hima Langrin Youth Welfare Organisation .Vs. Sate of Meghalaya & Ors., 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., PIL No.88/2010, Shri Sawang Lamurong & Ors. Vs. State of Meghalaya & Ors., WP(C)96 of 2012. Mawiong Umjapung Village Vs. State of Meghalaya & Ors., the MSPCB is direct respondent. In PIL No. 16/2011, Relief and Rehabilitation Colony Welfare Society. Vs. The State of Meghalaya and Ors., the MSPCB is Proforma respondent that is, MSPCB can either chose to respond or chose to not respond and it chose not to.

In W.P. (C) Suo Moto (SH) NO. 76 of 2012, Environmental Pollution and Health Hazard in the State Vs- State of Meghalaya & Ors., the MSPCB answers through the Government



PUBLICATION OF THE BOARD

The publication of the Board during the year 2012-2013 the Board is as follows :

1. Reports on Assessment of Ground Water Quality, Ambient Air Quality around Landfills & waste processing and Waste Disposal Facilites at Riatkhwan Forest at Mawiong Shillong The project was undertaken to get a clear view of the existing condition and management practice as well as possibilities for better management of Municipal Solid Waste. The study provides information on the quality of Ambient Air, Ground water and Leachate in and around the landfill site at Mawiong, Shillong.

2. Bio-monitoring of rivers in Meghalaya

The study is to assess the water quality of some important rivers in Meghalaya. It provides information on the baseline data on the Taxonomical distribution and identification of the benthic-invertebrates present in the rivers of Meghalaya.

3. Annual Report for 2008-2009

The report highlight the activities of the Board carried out during the financial year 2008 – 2009.

4. Annual Report for 2009-2010

The report highlight the activities of the Board carried out during the financial year 2009-2010.



FINANCIAL SUMMARY

The unaudited financial summary for the financial year 2012-13 reveals that during the said period, the State Board received a total amount of ₹538.79 Lakhs and total expenditure is ₹359.85 lakhs. 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 Emisssion Test, Water Sample Analysis etc. and also Water Cess Re-imbursement, Non-Plan Grants from State Government is utilized for payment of Pay and Allowances to the Officers and Staff. Plan Grants is received from State Government for various development activities. Grants and financial assistance is 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 2012-2013 is as shown in the table below:

SI.	Head of Accounts	Amount ₹ (in Lakhs)		
No.	meau of Accounts	Receipt	Expenditure	
	Board's Revenue			
1	i. (Boards Revenue) Consent Fees ,Sale of Forms, Authoriza- tion fees Biomedical/Hazardous Waste,Vehicle Emisssion Test,Water Sample Analysis etc.	141.31	30.91	
	ii. Bank interest	27.31		
	Sub Total (i to ii)	168.62	30.91	
C	State Govt.(Non-Plan) Head			
2	2 Grant from State Govt.(Non-Plan) for Pay & Allowances		278.60	
3	State Govt. Plan Head			
3	Grant from State Govt.(Plan)	25.00	22.72	
	M.O.E.F./C.P.C.B., New Delhi			
4	i. Grant,Financial Assistance from Ministry of Environment & Forests , New Delhi	76.89	8.14	
4	ii. Re-imbursement of Water Cess	0.00	0.45	
	iii. Grant, Financial Assistance from Central Pollution Control Board , NewDelhi	48.98	19.03	
_	Sub Total (i to iii)	125.87	27.62	
5	Total	538.79	359.85	



Table – 13..1 - Status of Unaudited Financial Summary for the Financial Year 2012-13

Excess Of Receipt over Expenditure

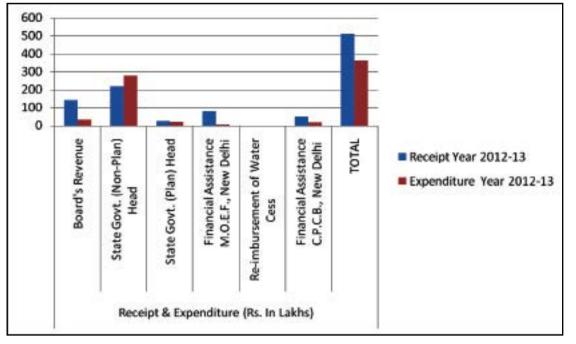


Fig 13.1 Receipt and Expenditure of the Board during the Financial Year 2012-13

During the financial year 2012-2013 the Total Receipt of the Board is ₹538.79 lakhs and the Total expenditure is ₹359.85 lakhs. The receipts from Board's Revenue is ₹141.31 lakhs and the expenditure is ₹30.91 lakhs. Receipt on Bank Interest is ₹27.31 lakhs. Receipt from the State Government (Plan) Head is ₹25.00 lakhs and expenditure is ₹22.72 lakhs. Financial Assistance from Ministry of Environment & Forest, New Delhi is ₹76.89 lakhs and the expenditure is ₹8.14 lakhs. Receipt from the Central Pollution Control Board, New Delhi is ₹48.98 lakhs and the expenditure is ₹19.03 lakhs. The water cess reimbursement from the Ministry of Environment and Forests, New Delhi is Nil and the expenditure is ₹0.45 lakh.

ANNEXURE - 1	Staff Position up to 31st Mar
ANNEXURE – 2	Organisational
ANNEXURE - 3	Members Of T
ANNEXURE - 4	Consent To Es
ANNEXURE – 5	Renewal Of C
ANNEXURE - 6	Consent To Op
ANNEXURE - 7	Renewal Of C



ANNEXURES

- of the Meghalaya State Pollution Control Board rch 2013
- al Chart of the Board
- The Board
- stablish Issued During The Year 2012-2013
- Consent To Establish During 2012-2013
- Operate During 2012-2013
- Consent To Operate During 2012-2013

STAFF POSITION OF THE MEGHALAYA STATE POLLUTION CONTROL BOARD UP TO 31st MARCH 2013

Sl No	Name Of The Post	Sanctioned Strength	Working Strength	Vacancy
TEC	HNICAL			
1.	SENIOR ENVIRONMENTAL ENGINEER	1	1	-
2.	ENVIRONMENTAL ENGINEER	2	2	-
3.	ASSTT.ENVIRONMENTAL ENGINEER	5	5	-
4.	JUNIOR ENVIRONMENTAL ENGINEER	1	1	-
5.	DRAFTSMAN	1	-	1
6.	TRACER	1	1	-
LEG	AL			
7.	LEGAL OFFICER/ADVISER	1	-	1
8.	JUNIOR LAW OFFICER	1	1	-
SCIE	NTIFIC			
9.	SENIOR SCIENTIST	1	1	-
10.	SCIENTIST-C	2	1	1
11.	SCIENTIST-B	3	1	2
12.	SENIOR SCIENTIFIC ASSTT.	3	-	3
13.	JUNIOR SCIENTIFIC ASSTT Gd I/II	7	4	3
14.	SENIOR TECHNICAL ASSTT.	1	1	-
15.	TECHNICAL ASSTT.	2	-	2
16.	LABORATORY ASSTT.	4	4	-
17.	STORE KEEPER	1	1	-
18.	FIELD ATTENDANT	1	-	1
19	SAMPLE COLLECTOR	10	4	6
20.	LAB. ATTENDANT	4	2	2

We must develop a better sense of responsibility towards our total environment ... " - Jon Wynne Tyson



ANNEXURE-1

mspcb

Annual Report 2012-2013

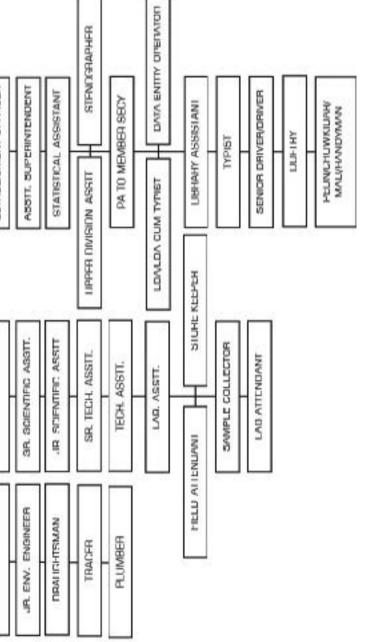
ADM	ADMINISTRATION & ACCOUNTS					
21.	ADMINISTRATIVE OFFICER	1	-	1		
22.	FINANCE & ACCOUNTS OFFICER	1	-	1		
23.	PRIVATE SECRETARY TO CHAIRMAN	1	-	1		
24.	RESEARCH OFFICER (Eco & Stat)	1	-	1		
25.	SENIOR ACCOUNTANT	1	1	-		
26.	ESTABLISHMENT OFFICER	1	1	-		
27.	ASSTT. SUPERINTENDENT	1	1	-		
28.	JUNIOR ACCOUNTANT	2	2	-		
29.	STENOGRAPHER	1	1	-		
30.	STATISTICAL ASSTT.	1	-	1		
31.	UPPER DIVISIONAL ASSTT.	4	4	-		
32.	P.A TO MEMBER SECRETARY	1	-	1		
33.	L.D.ASSTT./ LDA-CUM-TYPIST	12	4	8		
34.	DATA ENTRY OPERATOR	2	2	-		
35.	TYPIST	4	2	2		
36.	LIBRARY ASSTT.	1	-	1		
37.	SENIOR DRIVER/ DRIVER	10	4	6		
38.	PEON	19	12	7		
39.	MALI	1	-	1		
40.	PLUMBER	1	1	-		
41.	DUFTRY	1	1	-		
42.	HANDY MAN	1	-	1		
43.	CHOWKIDAR	3	2	1		
	TOTAL	123	68	55		

LAW UP E ž LEGAL CER ALLUUNIANI OFFIC cđ. K CHART ICH UPHORH MEMRER SECRETARY **ORGANISATIONAL** 8 CHAIRMAN Ŧ PS IU CHAIN 4 SCIENTIST 'C' ENV. ENGINEEI STT. ENV EN ENV.

ANNEXURE-2

Annual Report 2012-2013

Meghalaya State Pollution Control Board







ANNEXURE-3

MEMBERS OF THE BOARD

1.	Chairman Meghalaya State Pollution Control Board, Shillong.	: Chairman
2.	Member Secretary, Meghalaya State Pollution Control Board	: Member Convener
OFFIC	CIAL MEMBERS	
3.	Chief Engineer Public Health Engineering, Meghalaya, Shillong or his nominee	: Member
4.	The Director of Industries, Meghalaya, Shillong or his nominee	: Member
5.	The Director of Health Services (Research, etc), Meghalaya, Shillong or his nominee	: Member
6.	The Director, Urban affairs, Meghalaya, Shillong or his nominee	: Member
7.	Chief Conservator of Forests (Social Forestry & Environment) Meghalaya, Shillong or his nominee	: Member
MEMI	BERS FROM LOCAL AUTHORITIES	
8.	The Chief Executive Member,	: Member
	Khasi Hills Autonomous District Council or his nominee	
9.	The Chief Executive Member,	: Member
10	Jaintia Hills Autonomous District Council or his nominee	
10.	The Chief Executive Member, Garo Hills Autonomous District Council or his nominee	: Member
11.	The Chairman,	: Member
11.	Shillong Municipal Board or his nominee	
12.	The Chairman,	: Member
	Tura Municipal Board or his nominee	
REPR	ESENTATIVES FROM CORPORATIONS	
13.	The Managing Director,	: Member
	Meghalaya Industrial Development Corporation or his nominee	
14.	The Managing Director,	: Member
	Mineral Development Corporation, Meghalaya or his nominee	
NON-0	OFFICIAL MEMBERS	
15.	Shri S.G.Lyngdoh, Mawlai Nonglum,Shillong	: Member
16.	Shri N.D. Shullai, Jaiaw Pdeng, Shillong	: Member
17.	Shri D.S.Laloo, Moodiap, Nartiang, Jowai.	: Member

ANNEXURE-4 Consent to establish issued during The year 2012-2013

Sl. No.	Name of Industry	Type of Unit	Location of the Industry/Unit	Date of Consent To Establish Issued
1.	Bharti Infratel Ltd	15 KVA DG Set	15th Mile Nongthymmai, Byrnihat and Umsning , Ribhoi District	02.04.2012
2.	Bharti Infratel Ltd	15 KVA DG Set	Nongsder Pyllun Block- 4,Ribhoi District	02.04.2012
3.	Aibor Servicing Station	Automobile Servicing Unit	Pomlaher, Mawryngkneng, East Khasi Hills District	03.04.2012
4.	Bharti Infratel Ltd	15 KVA DG set	Manikganj, East Garo Hills	13.04.2012
5.	Bharti Infratel Ltd	15 KVA DG set	Laitarted, West Khasi Hills	19.04.2012
6.	Highland Toyota	Automobile Sales and Servicing	Mawlai Mawiong Rim, Shillong, East Khasi Hills District	02.05.2012
7.	Bharti Infratel Ltd	15 KVA DG set	Nongsning, Jaintia Hills District	02.05.2012
8.	D.D.H Bricks	Brick Kiln Unit	Kharigaon, West Garo Hills District	04.05.2012
9.	A.S. Ramsiej Stone Crusher	Stone Crusher	Pyndensakwang, Mawkyrwat, West Khasi Hills	13.06.2012
10.	Hi-Tech Kharpran Stone Crusher	Stone Crusher	Mawlyngad, East Khasi Hills District	14.06.2012
11.	Aloysius Arengh	Pet Bottle Manufacturing and Blowing Unit	Lawbyrwa, Raid Mawbuh, Ribhoi District	21.06.2012
12.	YFC Project Pvt. Ltd	 (i) Hot Mix Plant 160 TPH (ii) WMM Plant 200 TPH (iii) RMC Plant 30M3 (iv) Track Mounted Crusher 200 TPH (v) DG Set of 365 KVA 	Mawiong Rim, Shillong, East Khasi Hills District	21.06.2012

We must develop a better sense of responsibility towards our total environment ... " - Jon Wynne Tyson



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		(vi) DG Set of 125 KVA (vii) DG Set of 62.5 KVA viii) DG Set of 25 KVA		
13.	Vasna Pearl Bamon	Automatic Water Re-filling Unit	Lawbyrwa,Raid Mawbuh,Ribhoi District	21.06.2012
14.	Thawain Plain	Water Treatment Plant	Lawbyrwa, Raid Mawbuh, Ribhoi District	21.06.2012
15.	D.H. Royal Cars	Automobile Sales and Servicing	Laitkor Rngi, Mawblei, East Khasi Hills District	22.06.2012
16.	Ri-Bhoi Ispat and Rolling Mills-MS Ingots	M.S. Ingots manufacturing unit	13th Mile, Tamulkuchi, Ribhoi District	22.06.2012
17.	Bansara Eye Care Center	Hospital	Laitumkhrah, Shillong, East Khasi Hills	21.06.2012
18.	Pioneer Carbide (P) Ltd	Expansion Ferro Alloy Plant	Upper Balian Byrnihat, Ribhoi District	26.06.2012
19.	CMJ Breweries (P) Ltd	IMFL Bottling Plant	New Industrial Area, Byrnihat, Ribhoi District	04.07.2012
20.	CMJ Breweries (P) Ltd	(100 KLPD Grain Based Distillery Plant) with Co- generation Power Plant of 3.5 MW	New Industrial Area, Byrnihat, Ribhoi District	18.06.2012
21.	CMJ Breweries (P) Ltd	Expansion Brewery Plant from 1,00,000 HL/ Annum to 2,25,000 HL/Annum	New Industrial Area, Byrnihat, Ribhoi District	18.06.2012
22.	Meghalaya Cements Ltd	(15 MTD Native Down Draft Furnace (Native Down Draft Furnace Clay Bhatta)	Thangskai village, East Jaintia Hills District	19.06.2012
23.	Jirang Environmental Economic Development Union	28 TPD of Stone Chips	Rani, Jirang, Ribhoi District	21.06.2012
24.	P.K. and Company	(Stone Crusher & Hot Mix Plant) of 1500 TPD of Stone Chips	Rongdengre,13th Mile, West Garo Hills District	21.06.2012

25.	Marak Stone Crusher	72 TPD 0
		Chips
26.	Delfi's Bakery	Bakery U
27.	B.K. Timber Industries	Saw-cum Mills
28.	Bharti Infratel Ltd	15 KVA
29.	Maxim Infrastructure and Real Estate (P) Ltd	Hotel cur complex
30.	Planmiki Stone Crusher	Stone Cr
31.	Abhishek Lime Industry	Lime Inc
32.	Kyndait Stone Crusher	Stone Cr
33.	S.J.K. Stone Crusher	Stone Cr
34.	Laxmi Hotel	Hotel
35.	Mini Tea Processing Unit (TDC) Horticulture Development Officer	Tea Proc Unit
36.	Riangdo Veneers (P) Ltd	Upgrada Moderni the Vene Veneers
37.	Nalari Ferro Alloys Pvt Ltd	Expansic Alloys (6 MTPA to MTPA)
38.	Hiambok L. Thabah Stone Crusher	Stone Cr
39.	Larry Rymmai Stone Crusher	Stone Cr
40.	Shanlang Stone Crusher	Stone Cr Unit



of Stone	Tamulkuchi, Byrnihat, Ri- Bhoi District	22.06.2012
Jnit	Maraikaphon, Sohra, East Khasi Hills District	04.07.2012
n-Veneer	Umiam Industrial Area, Ribhoi District	02.07.2012
DG Set	Mawlai Motsyiar, East Khasi Hills District	26.07.2012
m office	Old SMB complex, Shillong, East Khasi Hills District	24.08.2012
usher	Deinthare,Ummulong,West Jaintia Hills District	05.09.2012
lustry	Myllat village, East Khasi Hills District	11.09.2012
usher	Umladkhar, Mookhep, East Jaintia Hills District	14.09.2012
usher	Kyrdemkhla, Mawkaphar, East Khasi Hills District	10.10.2012
	G.S. Road, Khyndailad (Police Bazar),Shillong, E.Khasi Hills District	11.10.2012
essing	Govt Tea Farm, Umsning, Ribhoi District	11.10.2012
tion & zation of ers and drying unit	Umiam Industrial Area, Ribhoi District	26-11-2012
on Ferro 5000 0 12,000	EPIP, Byrnihat, Ribhoi District	26-11-2012
usher	Mawmarian, Wahmawlong, Mylliem Syiemship, East Khasi Hills	16-11-2012
usher	Lamlyer, Jarain, East Khasi Hills	26-11-2012
ushing	Bhorymbong, Lumdaitkhla, Ri Bhoi	26-11-2012
Restaurant	Laitumkhrah Main Road, Shillong, East Khasi Hills District	26-11-2012



42.	ATC India Tower Corporation Pvt Ltd	DG Set	(i) Nongrim Bamthong (ii) Ialong (iii) Namdong – A in Jaintia Hills District	10-01-2013
43.	ATC India Tower Corporation Pvt Ltd	DG Set	 (i) Mairang Mission (ii) Balat (iii) Nongstoin (iv) Mawranglang (v) Nonglang in West Khasi Hills District 	10-01-2013
44.	ATC India Tower Corporation Pvt Ltd	DG Set	Pongkung in East Khasi Hills District	17-01-2013
45.	Mightymon Rashir Brick Manufacturing Unit	Brick Kiln	Nongdhapor, West Khasi Hills District	27-02-2013
46.	Shree Sai Smelters (P) Ltd	Mild Steel Rolled Products	Rangsakona, Ribhoi District	20-02-2013
47.	Chesa Automobile Workshop	Automobile Workshop	Matchikolgre, West Garo Hills District	08-03-2013
48.	Café Café Bakery	Bakery Unit	Pohktieh, Shillong, East Khasi Hills District	12-03-2013
49.	ITD Cementation India Ltd	20m ³ /hr Batching Plant	New Umtru H.E. Project, Byrnihat, Ribhoi District	25-03-2013
50.	Everest Restaurant	Restaurant	Umsohsun Road, Police bazar, Shillong in East Khasi Hills District	25-03-2013
51.	Meghdoot Sweet	Tea Stall	Jail Road, Shillong in East Khasi Hills District	25-03-2013
52.	Bharti Infratel Ltd	DG Set	Skhenpyrsit in West Jaintia Hills District	26-03-2013
53.	Bharti Infratel Ltd	DG Set	 (i) Mynsngat (ii) Jarain (iii) Cham Cham (iv) Umladong (v) JUD Cement (vi) Shiliang Umshong (vii) Dkhiah East (viii) Sahsniang Saitthad in East Jaintia Hills District 	22-03-2013

ANNEXURE-5 RENEWAL OF CONSENT TO ESTABLISH DURING 2012-2013

Sl. No	Name of Industry	Type of Unit	Location of the Industry/Unit	Date of Consent To Establish Renewal
1.	Cosmos Cements Limited	(27 MW Coal Based Thermal Power Plant)	Salang, Sutnga Elaka, East Jaintia Hills District	27.09.2012
2	Shylla Stone Crusher	Stone Crusher	Lumtyrtho, Modop, Jaintia Hills District	14.09.2012
3	Shakambari Ferro Alloy (P) Ltd	Ferro Alloy	Rwiang, Seinduly, West Khasi Hills District	04.09.2012
4.	Cosmos Cements Limited	Integrated Cement Plant of 2.0 MTPA & 1.44 MTPA Clinker	Salang, Sutnga Elaka, East Jaintia Hills District	04.09.2012
5.	Blah Stone Crusher	Stone Crusher	Lumpyngrope, Nongpathaw, East Khasi Hills District	28.08.2012
6.	Meghalaya Cements Limited	4.88 Limestone Mining	Khliehjari, East Jaintia Hills District	25.07.2012
7.	Patni Ferro Tech (P) Ltd	Rolling Mill	EPIP, Norbong, Ri -Bhoi District	12.06.2012
8.	Patni Ferro Tech (P) Ltd	MS Ingot & Re rolled products	EPIP,Norbong, Ribhoi District	13.06.2012
9.	Meghalaya Energy Corporation Ltd	Ganol Hydro Electric Power Project	Chibagre, West Garo Hills District	13.04.2012
10.	Mawmluh Cherra Cements Ltd	Limestone Mining Project	Sohra,East Khasi Hills District	13.04.2012
11.	Mawmluh Cherra Cements Ltd	Expansion from 680 TPD to 1280 TPD	Sohra,East Khasi Hills District	13.04.2012
12.	Amrit Cements Industries Ltd	0.9 Cements Manufacturing Unit alongwith 10 MW Captive Power Plant	Umlaper,Jaintia Hills District	17.04.2012
13.	Stone Crushing Unit	Stone Chips	Lyngkien,Tangnew, East Khasi Hills District	09.04.2012





Annual Report 2012-2013

14.	Robertson Kurbah Stone Crusher	Stone Crushing Unit	Mawmaram, East Khasi Hills District	14-12-2012
15.	Shakambari Ferro Alloys (P) Ltd	10 MW Captive Power Plant	Seinduly, West Khasi Hills District	20-12-2012
16.	Meghalaya Stone Breaker & Crusher Automatic Plant	Stone Crushing Unit	Bahenadodi, Ri-Bhoi District	04-02-2013
17.	Shillong Municipal Board	Sanitary Landfill	Marten, Mawiong, East Khasi Hills District	18-02-2013
18.	Goldstone cements Limited	0.88 MT/Annum Cement Plant alongwith a 30 MW Captive Power Plant	Umlape Elaka, Rymbai in East Jaintia Hills District	05-03-2013
19.	Oaken Glow Bottling (P) Ltd	IMFL Bottling Unit	8th Mile Baridua, Ri-Bhoi District	11-03-2013

Sl. No	Name of Industry	Type of Unit	Location of the Industry/ Unit	Date of Consent To Operate Issued
1.	Shyam Foods	Bakery Unit	Killing, Ri-Bhoi District	30.11.2012
2	Idea Cellular Ltd	2 DG Sets (i) 250 KVA & 400 KVA	Fire Brigade, Lumsohphoh, East Khasi Hills District	26.11.2012
3	R.B's Bakery	Bakery Unit (Electric Oven)	Police Bazar, Shillong	16.11.2012
4.	Lamee, The Multicuisine Restaurant	Restaurant	G.S. Road, Police Bazar, East Khasi Hills District	26.11.2012
5.	M/s H.K. Loungani & Co., Managing Agent, The Shillong Club	Hotel	Kachari Road, Shillong, East Khasi Hills District	01.11.2012
6.	Shree Sai Prakash Alloys (P) Ltd	Steel Rolled Products Manufacturing Unit	Rangsakona, Ri-Bhoi District	31.10.2012
7.	D.K Jahrin Stone Crusher	Stone Crusher	Ksensohsan, Ranikor, West Khasi Hills District	28.09.2012
8.	Neoze's Stone Crusher	Stone Crusher	Domwahlang (Nongstoin), West Khasi Hills District	10.10.2012
9.	Nalari Stone Crusher	Stone Crusher	Mawthwan, Sohiong, East Khasi Hills District	12.09.2012
10.	Jester Swett Lime Industry	Lime Kiln Unit	Saikawanphai, Jatap, Mustoh, East Khasi Hills District	10.10.2012
11.	ITD Cementation India Ltd	320 KVA DG Set & 2 Nos. of 125 KVA DG Sets	Norbong, Byrnihat, Ri-Bhoi District	11.09.2012
12.	ITD Cementation India Ltd	320 KVA DG Set	TRT Site Norbong, Byrnihat, Ri-Bhoi District	07.09.2012
13.	Goldstone Cements Ltd	160 TPD Aggregate Stone Crusher	Umsangat, Village Musiang Lamare, Jaintia Hills District	04.09.2012
14.	Phrastar Nongsteng Stone Crusher	Stone Crusher	Ladmawphlang, East Khasi Hills District	29.08.2012
15.	Meghalaya Power Ltd	1x43 MW Imported Coal Based Thermal Power Plant	Village Lumshnong, Jaintia Hills District	09.08.2012
16.	K.K. Stone Crusher	Stone Crusher	Lad Smit, East Khasi Hills District	06.08.2012





ANNEXURE-6 CONSENT TO OPERATE DURING 2012-2013



Annual Report 2012-2013

Meghalaya State Pollution Control Board

17.	Pynkhrawlang Stone Crusher	Stone Crusher	Madan Thangsning, East Khasi Hills District	29.07.2012
18.	North Eastern Regional Load Despatch Centre	200 KVA DG Set	Powergrid Complex, Lower Nongrah, Shillong, East Khasi Hills	16.07.2012
19.	Commercial Iron & Steel Co. (P) Ltd	Expansion of its M.S Ingot manufacturing unit (4MVA to 6 MVA)		04.07.2012
20.	Aibor's Service Station	Automobile Servicing Unit	Pomlahier, Mawryngkneng, East Khasi Hills District	27.06.2012
21.	MeghalayaEnergyCorporation Ltd.	Myntdu Leshka Hydro Electric Plant	Jaintia Hills District, Meghalaya	27.06.2012
22.	Tata Tele Services Ltd (TTSL)	380 KVA DG Set	Keating Road Shillong, East Khasi Hills	01.06.2012
23.	Hotel Indiana	Hotel	Police Bazar, Umsohsun, East Khasi Hills District	24.05.2012
24.	R. Ryngkhlem Crusher	Stone Crusher	Kseh Pakyntein, Demthring, Jaintia Hills District	02.05.2012
25.	Warjri Enterprise	Stone Crusher	Kyiem, Mawphlang, East Khasi Hills District	11.05.2012
26.	P.K & Company	Stone Crushing unit	Boro Bokal, West Garo Hills District	03.04.2012
27.	Arzoo Cashewnut Processing industry	Cashewnut Processing	Mahendraganj, West Garo Hills District	04.05.2012
28.	Aity's Bakery	Bakery (Electric Oven)	Nongkhyriem, Upper Nongthymmai, Shillong, East Khasi Hills	30.04.2012
29	Bharti Infratel Ltd	15 KVA DG Sets	(i) Mawlengren (ii) Mawrok,Porsohsat (iii) Mawten (iv)Nongkasen in West KhasiHills District	24.05.2012
30.	BSC – C & C 'JV'	200 MT/HR Wet Mix Plant, 60 MT/HR Hot Mix Batch Type Plant, 30 CUM/HR Concrete Batching Plant and 300 MT/HR Stone Crusher	Mawpon Village, Riangdo (Camp –II), West Khasi Hills District	25.04.2012
31.	BSC – C & C 'JV'	200 MT/HR Wet Mix Plant, 160 MT/HR Hot Mix Batch Type Plant, 160 CUM/HR Concrete Batching Plant and 300 MT/HR Stone Crusher	Kynshi Village (Camp-I), in West Khasi Hills District	25.04.2012

32.	BSC – C & C 'JV'	200 MT/HR Wet Mix	Suangre Village, Shallang	25.04.2012
		Plant, 60 MT/HR HOT	(Camp – III), West Khasi	
		MIX BATCH TYPE	Hills District	
		PLANT, 30 CUM/		
		HR CONCRETE		
		BATCHING PLANTand 300 MT/HR STONE		
		CRUSHER		
33.	BSC – C & C 'JV'	200 MT/HR Wet Mix	Donglehon Somondo Villago	10.04.2012
55.	$DSC = C \alpha C J V$	Plant, 60 MT/HR Hot	Rongkhen Samanda Village (Camp 4) in East Garo HIIIs	10.04.2012
		Mix Batch Type Plant,	District	
		30 CUM/HR Concrete		
		Batching Plant and 300		
		MT/HR Stone Crusher		
34.	Lumjingshai Stone	Stone Crusher	Laitjem, East Khasi Hills	04.04.2012
	Crusher		District	
35.	Nezone Pipes &	M.S. Black & G.I Pipe,	New Industrial Area, Lower	03.01.2013
	Structures	M.S. Pole & Structures	Balian, Byrnihat, RI-Bhoi	
• •			District	
36.	NTL Steels	Galvanized	EPIP, Byrnihat, Ri-Bhoi	07.01.2013
		Octagonal Steel	District	
		Poles, Tubular Steel Poles & Galvanized		
		Steel Structures		
		Manufacturing Unit		
37.	L. Pala Crusher	Stone Crushing Unit	Latyrke, Sutnga, East Jaintia	15.01.2013
071			Hills District	1010112010
38.	Star Cement Meghalaya	1.75 MTPA Clinker	Lumshnong, East Jaintia	25.01.2013
	Ltd	Manufacturing Unit	Hills District	
39.	Idea Cellular Ltd	10 KVA DG Set	Mawkhan, East Khasi Hills	30.01.2013
			District	
40.	B.W. Lime Products	Lime Kiln Unit	Phlang Mawsyrpat,	30.01.2013
			Mawsynram, East Khasi	
			Hills District	
41.	L.S. Lime Processing	Lime Kiln Unit	Sohdoit, Mawlong, East	29.01.2013
	Unit		Khasi Hills District	
42.	Sparkling Nongrum	Stone Crusher	Lummawkaphar, Elaka	29.01.2013
	Stone Crusher		Laitkroh, East Khasi Hills	
			District	
43.	Little Chef Bakery	Bakery Unit (Electric	Gordon Road, Bhagyakul,	14.02.2013
		Oven)	Laitumkhrah, Shillong	
44.	Shilla Enterprise	Stone Crushing Unit	Basisto (Barapathar), Ri-	19.02.2013
			Bhoi District	

72





Annual Report 2012-2013

45.	Meghalaya Cement Ltd.	15 MT/ Native Down	Thangskai Village, East	05.03.2013
		Draft Furnace (Clay	Jaintia Hills District	
		Bhatta)		
46.	Amrit Cement Industries	0.90 Million Tonnes p.a.	Umlaper, Elaka Rymbai,	26.03.2013
	Limited	Cement Plant	Jaintia Hills District	
47.	ITD Cementation Ltd	Batching Plant	New Umtru H.E. Project,	25.03.2013
			Byrnihat, Ri-Bhoi District	

ANNEXURE-7 RENEWAL OF CONSENT TO OPERATE DURING 2012-2013

SI. No	Name of Industry	Type of Unit	Location of the Industry/ Unit	Date of Renewal ConsentTo Operate Issued
1.	Hindustan Coca-Cola Beverages (P) Ltd	Aerated Sweetened/ Unsweetened Water And Packaged Drinking Water	Byrnihat, Ri-Bhoi District	30.11.2012
2	Catherine Mynsong Works	Automobile Workshop	Keatinge Road, Shillong,East Khasi Hills District	22.11.2012
3	Green Power Solutions	Diesel & Gas Based Electric Generators (DG Sets) Assembly Unit having a total production capacity of 600 Nos. per annum for rating ranging from 5 KVA to 600 KVA	8th Mile, Baridua, Ri-bhoi District	22.11.2012
4.	Meghalaya Cements LTD	Limestone Mining	Rymmai Syndem, Khliehjari, Thangskai, Jaintia Hills District	26.11.2012
5.	Rice Bowl Restaurant	Restaurant	Glory Plaza, Police Bazar	08.11.2012
6.	Hotel Rainbow	Hotel	Haji Elahi Baksh Wakf Estate, G.S. Road, Shillong, East Khasi Hills District	08.11.2012
7.	West Garo Hills Tea Farmers Federation	Tea Factory	Rongram, West Garo Hills District	08.11.2012
8.	ITD Cementation India Ltd	320 KVA DG Set	TRT Site, Norbong, Byrnihat, Ri-Bhoi District	31.10.2012
9.	Pawan Casting	M.S. Ingots manufacturing Unit	Harlibagan, Byrnihat,Ri- Bhoi District	10.2012
10.	Cement Manufacturing Company Ltd	4.85 HaLimestone Mining	Wahpynkon, Lumshnong, Jaintia Hills District	31.10.2012
11.	Cement Manufacturing Company Ltd	4.70 Ha Limestone Mining	Lumshnong, Jaintia Hills District	31.10.2012
12.	Hills Cements Company	Limestone Mine	Mynkre Village, Jaintia Hills District	30.10.2012





76

Meghalaya State Pollution Control Board

Annual Report 2012-2013

Meghalaya State Pollution Control Board

13.	Albrin Sauting Stone Crusher	Stone Crusher	Umtyrnga, RI-Bhoi District	29.10.2012
14.	D.Kshiar Stone Crusher	Stone Crusher	Umtyrnga, RI-Bhoi District	18.10.2012
15.	Hong Kong Restaurant	Restaurant	Police Bazar, East Khasi Hills District	16.10.2012
16.	Aumz Industries	Veneer & Sawn Timber Waste Grinding Unit	20th Mile, Paham Mawlein, Ri-Bhoi District	16.10.2012
17.	Wong Garden	Restaurant	Police Bazar, East Khasi Hills District	16.10.2012
18.	Shree Sai Smelters (India) Ltd	M.S. Ingot Manufacturing Unit	Rangsakona, Byrnihat, Ri- Bhoi District	25.09.2012
19.	Jaintia Coke (P) Ltd	32 Oven Metallurgical Making Unit	Nongsning, East Jaintia Hills District	28.09.2012
20.	Sriram Wires Product (Meghalaya)	Black Wire Manufacturing Unit	13th Mile, Tamulkuchi, Byrnihat, Ri-Bhoi District	10.10.2012
21.	B.S. Stone Crusher	Stone Crusher	Mawkasiang, Mawdiangdiang, East Khasi Hills District	10.10.2012
22.	Meghalaya Minerals & Mines Ltd	Limestone Crushing Unit	Lumshnong, East Jaintia Hills District	24.09.2012
23.	Syiem Auto Workshop	Automobile Workshop	Madanryting, Shillong, East Khasi Hills District	27.09.2012
24.	S. Thabah Bakery	Bakery Unit	Lenmawtap, Sohiong, East Khasi Hills District	27.09.2012
25.	Meghalaya Power Limited	8 MW Coal Based Thermal Power Plant	Lumshnong, Napuh Elaka, Jaintia Hills District	14.09.2012
26.	Eee Cee Restaurant	Restaurant	Jail Road, Police Bazar, East Khasi Hills District	12.09.2012
27.	B.R Industries	Cashewnut Making Unit	Phulbari, West Garo Hills District	12.09.2012
28.	ITD Cementation India Ltd	320 KVA DG Set	Norbong, Byrnihat, Ri- Bhoi District	07.09.2012
29	Shillong Ispat & Rolling Mills	Re-Rolling Mill	13th Mile Tamulkuchi, Byrnihat, Ri-Bhoi District	05.09.2012
30.	Lafarge Umiam Mining (P) Ltd	Independent Mobile Crusher & Conveyor Circuit	Nongtrai, East Khasi Hills District	05.09.2012
31.	Palomino Restaurant	Restaurant	Opposite St Edmund School, N.H. 44, Shillong, East Khasi Hills District	31.08.2012

32.	Vanessa Lake View Inn	Hotel & Restaurant	M.G. Road, Shillong, East Khasi Hills District	14.08.2012
33.	Satyam Alloys	Ferro Silicon @14 MT/ Day	13th Mile, Tamulkuchi, Byrnihat, Ri-Bhoi District	13.08.2012
34.	Cement Manufacturing Company Ltd	2400 TPD Cement Manufacturing Unit	Lumshnong Village, Jaintia Hills District	09.08.2012
35.	Sharawn Tea	Tea Processing Unit	Sohryngkham, East Khasi Hills District	30.07.2012
36.	Broming Industries	Water Proofing & Cement Adhesive Unit	Narbong, Byrnihat, RI- Bhoi District	30.07.2012
37.	Meghalaya Cement Manufacturing Unit	2600 TPD Cement Manufacturing Unit	Thangskai Village, Jaintia Hills District	27.07.2012
38.	Bharti Infratel Ltd	DG Set	 (i) Jongksha (ii) Thynroit, Khyrim (iii) Raidshabong, Pynursla (iv) Mawlynnggad (v) Mylliem (vi) Sohryngkham in East Khasi Hills District 	25.07.2012
39.	JUD Cements Limited	900 TPD Cement Manufacturing Unit	Wahiajer, Narpuh Elaka, Jainti Hills District	16.07.2012
40.	Meghalaya Cements Ltd.	Limestone Mining	Chieruphi, Khliehjari, Thangskai, Jaintia Hills District	18.07.2012
41.	Nalari Ferro Alloys Ltd	 (i) Silico Manganese @ 40 TPD (ii) Ferro Silicon @ 10 TPD & (iii) Ferro Manganese @ 10 TPD 	EPIP, Byrnihat, Ri-Bhoi District	12.07.2012
42.	Megha Technical & Engineers (P) Ltd	2040 TPD Clinker Grinding Unit	Lumshnong, Jaintia Hills District	12.07.2012
43.	Lipon Crusher	Stone Crusher	Talane, Pynthor Langtein, Jaintia Hills District	16.07.2012
44.	Cherra Lime	Lime Kiln	Mawkisyiem, Sohra, East Khasi Hills District	16.07.2012
45.	Bimla Ispat & Alloys (P) Ltd	Ferro Silicon @ 8.25 MT/ Day and M.S. Ingots @ 92.40 MT/Day	13th Mile, Tamulkuchi, Byrnihat, Ri-Bhoi District	04.07.2012
46.	Vikash Saw Cum Veneer Mill	Saw Timber & Veneer Making Unit	Umiam Industrial Area, Ri-Bhoi District	04.07.2012
47.	Eastern saw Mill	Saw cum Veneer Mill	Umiam Industrial Area, Ri-Bhoi District	04.07.2012
48.	West Garo Hills Tea Farmer Federation	Tea Factory	Rongram, West Garo Hills District	28.06.2012





Annual Report 2012-2013

Meghalaya State Pollution Control Board

49.	Cement Manufacturing Company Ltd	4.96 Ha, Khub-I, Limestone Mining	Lumshnong, Jaintia Hills District.	27.06.2012
50.	Riangdo Veneers (P) Ltd	(i)Core Veneer Manufacturing Unit		19.06.2012
51.	Megha Cashew (P) Ltd	Cashewnut Processing Unit	EPIP, Byrnihat, RI-Bhoi District	19.06.2012
52.	Nezone Industries Ltd	M.S. Tubes (Black pipes) @ 25,000 MT/Annum and Galvanised Pipes @25,000 MT/Annum	EPIP, Byrnihat, RI-Bhoi District	19.06.2012
53.	North East Powerline Industries	D.G.S. & Pump Set Assembly Unit	Baridua, Ri-Bhoi District	18.06.2012
54.	Meghalaya Cast & Alloys (P) Ltd	Mild Steel Ingots Manufacturing Unit	Harlibagan, Byrnihat,	18.06.2012
55.	Adhunik Cements Ltd	Limestone Mining Block – IV	Thangskai Village, Jaintia Hills District	13.06.2012
56.	Greystone Strips Ltd	Steel Re-Rolling Mill	EPIP, Byrnihat, RI-Bhoi District	13.06.2012
57.	Maithan Alloys Ltd	15 MW Captive Power Plant	EPIP, Byrnihat, RI-Bhoi District	13.06.2012
58.	Greystone Ispat Ltd	Steel Re-Rolling Mill	EPIP, Byrnihat, RI-Bhoi District	13.06.2012
59.	Godrej Consumer Products Ltd	Mosquito Coils @ 600 Cases/Day	15th Mile, Byrnihat, Ri- BHoi District	12.06.2012
60.	Tata Tele Services Ltd (TTSL)	500 KVA DG Set	Keating Road Shillong, East Khasi Hills	12.06.2012
61.	Greystone Smelters Ltd.	M.S. Steel Ingots and Billets Manufacturing Unit	EPIP, Byrnihat, RI-Bhoi District	12.06.2012
62.	W.D.S.K Stone Crusher	Stone Crusher	Lumdaitkhla, Bhoirymbong, RI-Bhoi District	29.05.2012
63.	Palomino Restaurant	Restaurant	NH-44 Shillong-Jowai Road, Shillong, East Khasi Hills District	29.05.2012
64.	Regetta Food Pvt Ltd	Meat Processing Unit	Umiam Industrial Area, Ri-Bhoi District	28.02.2012
65.	Commercial Iron & Steel Co. Pvt. Ltd	Ferro Silicon Manufacturing Unit	EPIP, Byrnihat, RI-Bhoi District	10.05.2012
66.	Shillong Veneers & Saw Mill (P) Ltd	Saw cum Veneer Mill	Umiam Industrial Area, Ri-Bhoi District	10.05.2012

Crusher68.Seven Sisters Plastic Pvt. Ltd.HDPE & Manufa69.Megha SaltIonized70.Komorrah Limestone Mining Company LtdLimestor71.M.D.H BeveragesI.M.F.L72.H.K.S Stone CrusherStone C73.The fruit Preservation CentreFruit Pr74.Maithan Alloys LtdSilico n mangan ferro sil75.Ramthing Sangma Stone CrusherStone C76.Akshay Kr. Kajong Stone CrusherStone C77.A.H.A. IndustryStone C78.Kamakshi Ispat (P) LtdMild Manufa79.Maithan Smelters LtdOxygen80.Surya Alloys Industries Mills (P) LtdRailway Wagon81.M.N. Saw cum Veneer Mills (P) LtdSaw cun Mills (P) Ltd83.Shiromani Food Products Pvt LtdFood G Sizing &84.Kakarania Innovative Systems (P) LtdFlexible Gizing &			
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Storage unit83.Shiromani Food Products Pvt LtdFood G Sizing &84.Kakarania Innovative 	81.		Saw cun
Pvt LtdSizing &84.Kakarania Innovative Systems (P) LtdFlexible (Plastic)	82.	Megha Polycon Pvt. Ltd	HDPE/L Storage ⁷ unit
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	84.		Flexible (Plastic)
	85.	1	30 KVA I



Bollongiri, Shelsella, West GAro Hills District	09.05.2012
Amjok, Byrnihat, Ri-Bhoi District	09.05.2012
Umiam Industrial Area, Ri-Bhoi District	10.05.2012
Komorrah, East Khasi Hills District	24.05.2012
Umiam Industrial Area, Ri-Bhoi District	24.05.2012
Iongkhuli, Ri-Bhoi District	25.05.2012
Fruit Garden, Shillong, East Khasi HI8lls District	24.04.2012
EPIP, Byrnihat, Ri-Bhoi District	19.04.2012
Tangoan, West Garo Hills District	19.04.2012
Borjhora (Rochopara) West Garo Hills District	19.04.2012
Tikring, Dari Dari,West Garo Hills District	19.04.2012
E.P.I.P, Byrnihat, Ri-Bhoi District	19.04.2012
E.P.I.P, Byrnihat, Ri-Bhoi District	19.04.2012
Tamulkuchi, 13th Mile, Ri-Bhoi District	19.04.2012
Umiam Industrial Area, Ri-Bhoi District	13.04.2012
Byrnihat, Industrial Area, Ri-Bhoi District	18.04.2012
Baridua, Ri-Bhoi District	18.04.2012
E.P.I.P, Byrnihat, Ri-Bhoi District	11.04.2012
Pine Mount Ridge, Barik, Shilong, East Khasi Hills District	13.04.2012
	GAro Hills District Amjok, Byrnihat, Ri-Bhoi District Umiam Industrial Area, Ri-Bhoi District Komorrah, East Khasi Hills District Umiam Industrial Area, Ri-Bhoi District Iongkhuli, Ri-Bhoi District Fruit Garden, Shillong, East Khasi HI8lls District EPIP, Byrnihat, Ri-Bhoi District Tangoan, West Garo Hills District Borjhora (Rochopara) West Garo Hills District Tikring, Dari Dari,West Garo Hills District E.P.I.P, Byrnihat, Ri-Bhoi District E.P.I.P, Byrnihat, Ri-Bhoi District Umiam Industrial Area, Ri-Bhoi District Umiam Industrial Area, Ri-Bhoi District Byrnihat, Industrial Area, Ri-Bhoi District District Byrnihat, Industrial Area, Ri-Bhoi District E.P.I.P, Byrnihat, Ri-Bhoi District District District District Pine Mount Ridge, Barik, Shilong, East Khasi Hills



Annual Report 2012-2013

Meghalaya State Pollution Control Board

86.	Meghalaya Mineral & Mines Limited	Limestone Mining	Lumshnong Village, Jaintia Hills District	13.04.2012
87.	Mammluh Cherra Cements Ltd	Cement Manufacturing Unit	Mammluh, Cherrapunjee, East Khasi Hills District	13.04.2012
88.	North Eastern Regional Agricultural Marketing Corpn Ltd (NERAMAC)	Ginger Processing Unit	E.P.I.P, Byrnihat, Ri-Bhoi District	13.04.2012
89.	K.L Industries	Feed Mill Unit	Baridua, Ri-Bhoi District	13.04.2012
90.	W. Dolloi Stone Crusher	Stone Crusher	Rani, Jirang, Ri-Bhoi District	09.04.2012
91.	Centre Point Hotel	Hotel	Police Bazar, Shillong, East Khasi Hills District	09.04.2012
92.	IaipynskhemLakhmiStone Crusher	Stone Crusher	Rani, Jirang, Ri-Bhoi District	09.04.2012
93.	Hotel Anuradha	Hotel	Thana Road, Police Bazar, Shillong, East Khasi Hills District	02.04.2012
94.	Adhunik Cement Ltd	Limestone Mine Block – I	Thangskai, East Jaintia Hills District	11.12.2012
95.	Shyam Century Ferrous	13.8 MW Captive Power Plant	EPIP, Byrnihat, Ri-Bhoi District	07.12.2012
96.	F.W. Ferrotech (P) Ltd	M.S Ingot and Re-Rolling Mill Unit	EPIP, Byrnihat, Ri-Bhoi District	14.12.2012
97.	Shree Sai Rolling Mill (India) Ltd	Re-Rolling Mill	Rangsakona, Byrnihat, Ri- Bhoi District	14.12.2012
98.	Indomech Industries	D.G. Assembly Unit	Them Marwet, Khanapara, Ri-Bhoi District	15.12.2012
99.	Hotel Pine Borough	Hotel	Police Bazar, Shillong, East Khasi Hills District	07.12.2012
100.	Urlong Tea	Tea Processing Unit	Mawlynngot, East Khasi Hills District	07.12.2012
101.	Umadutt Industries	Polyurethane Foam and Foam manufacturing unit	Amjok, Byrnihat, Ri-Bhoi District	10.01.2013
102.	Powergrid Corporation of India Ltd	D.G Set (160 KVA)	Lapalang, Shilong, East Khasi Hills District	02.05.2012
103.	Bharti Infratel Ltd	DG Sets	(i) Samanda Megapee (ii)Kosichora in East GaroHills District	24.05.2012
104.	Ashok Engineering Works	Automobile Workshop	Kench's Trace, Shillong, East Khasi Hills District	02.05.2012

105	Bharti Infratel Ltd	DG Sets	 (i) Bonepa (ii) Nehru Ading (iii) Dakopgri (iv) Walbakgre (v) Romba Adingre in West Garo Hills District. 	24.05.2012
106	Meghalaya Bitchem Manufacturing Unit	 (i) Cationic Bitumen Emulsion – 12 TPD (ii) Crumb Rubber Modified Bitumen – 4 TPD (iii) Polymer Modified Bitumen – 4 TPD 	9th Mile, Byrnihat, Ri- Bhoi District	10.01.2013
107	Goenka Engineering Works	Automobile Workshop	Keating road, Shillong, East Khasi Hills District	16.01.2013
108	V.M Modern Rice Mill	Rice Mill Unit	Barapani Industrial Area, Ri-Bhoi District	17.01.2013
109	A.A. Nutrition	Food Processing Unit	G.S. Road, 10th Mile, Ri- Bhoi District	17.01.2013
110	Lafarge Umiam Mining Pvt Ltd	Shale & Siltstone Mine	Shella, East Khasi Hills District	25.01.2013
111	Lafarge Umiam Mining Pvt Ltd	D.G Set	Nongtrai, East Khasi Hills District	25.01.2013
112	C. Synrem Lime Kiln	Lime Kiln Unit	Wah-u-Tim, Mawmluh, East Khasi Hills District	07.02.2013
113	F.W. Suting Lime Industry	Lime Kiln Unit	Kyndongriat (Nongthymmai Mawsmai Sohra), East Khasi Hills District	07.02.2013
114	Godrej Consumers Products Ltd	DG Set	15th Mile, G.S. Road, Byrnihat, Ri-Bhoi District	07.02.2013
115	Adhunik Cement Ltd	Cement & 1.3 MTPA Clinker Manufacturing Unit	Mootang, Narpuh Elaka, East Jaintia Hills District	07.02.2013
116	Adhunik Cement Ltd	Limestone Block - II	Umsoo Mootang, Village Thangskai, East Jaintia Hills District	07.02.2013
117	Godrej Saralee Ltd.	Hot Water Generator	15th Mile, Byrnihat, Ri- Bhoi District	12.02.2013
118	CMJ Breweries (P) Ltd	Brewery Plant	New Industrial Area, Byrnihat, Ri-Bhoi District	12.02.2013
119	Hotel Lotus	Hotel	Police Bazar, Shillong, East Khasi Hills District	27.02.2013





120	EJR Bakery	Bakery Unit	Nongthymmai, Shillong, East Khasi Hills District	27.02.2013
121	Bokto Zaman Stone Crusher	Stone Crushing Unit	Tangoan,West Garo Hills District	19.02.2013
122	Sarvamayee Food Products (P) Ltd	Food Grain Processing & Nutri Food Unit	9th Mile, Baridua, Ri-Bhoi District	04.03.2013
123	Neolith Restaurant	Restaurant	Motphran, Shillong, East Khasi Hills District	04.03.2013
124	Palace Centre Point	Restaurant	Centre Point Building, Shillong, East Khasi Hills District	04.03.2013
125	Palace Motphran	Restaurant	Motphran, Shillong, East Khasi Hills District	04.03.2013
126	Hotel Magnum	Hotel/Restaurant	Police Bazar, Shillong, East Khasi Hills District	04.03.2013
127	Adhunik Cements Ltd.	1500 KVA DG Sets	Mootang, Thangskai Village, East Jaintia Hills District	17.03.2013
128	Tasty Buds Restaurant	Restaurant	Keating Road, Shillong, East Khasi Hills District	19.03.2013
129	Greenland Hotel	Lodge	Jail Road, Shillong, East Khasi Hills District	19.03.2013
130	Vishal-Saw-cum-Veneer Mills Pvt Ltd	Saw-cum-Veneer Mills	Umiam Industrial Area, Ri-Bhoi District	25.03.2013
131	Timber Craft & Veneer Products (India) Pvt Ltd	Saw-cum-Veneer Mills	Umiam Industrial Area, Ri-Bhoi District	25.03.2013
132	Deep Industry	Graded Stone Chips	Wakkugre, West Garo Hills District	25.03.2013
133	Nezone Industries Ltd.	M.s Tubes (Black Pipes) & Galvanised Pipes	EPIP, Byrnihat, Ri-Bhoi District	25.03.2013