ANNUAL REPORT

2003-2004



MEGHALAYA STATE POLLUTION CONTROL BOARD, "ARDEN", LUMPYNGNGAD, SHILLONG - 793014

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1 Introduction

The State Board for Prevention and Control of Water Pollution, Meghalaya was constituted by the Government of Meghalaya on the Sixteenth Day of November, Nineteen Eighty Three in pursuance of the Water (Prevention & Control of Pollution) Act, 1974. The Board was later renamed as Meghalaya State Pollution Control Board in 1988. After the enactment of the Air (Prevention & Control of Pollution) Act, 1981, the enforcing responsibility of the Act was 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.

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

- 1) The Water (Prevention and Control of Pollution) Cess Act, 1977, and as amended by Amendment Act in 1991.
- 2) The Water (Prevention and Control of Pollution) Cess Rules, 1978.
- 3) The Hazardous Waste (Management and Handling) Rules, 1989.
- 4) The Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
- 5) The Manufacture, Use, Import, Export & Storage of Hazardous Micro organism or Cells Rules, 1989.
- 6) The Public Liability Insurance Act, 1991.
- 7) The Environmental Impact Assessment Notification, 1994.
- 8) The Chemical Accidents (Emergency Planning, Preparedness & Response) Rules, 1996.
- 9) The Bio-Medical Wastes (Management & Handling) Rules, 1998
- 10) The Recycled Plastics Manufacture and Usage Rules, 1999.
- 11) The Fly Ash Notification, 1999.
- 12) The Noise Pollution (Regulation and Control) Rules, 2000.
- 13) The Ozone Depleting substances (Regulation) Rules, 2000.
- 14) The Municipal Solid Wastes (Management & Handling) Rules, 2000.
- 15) The Batteries (Management & Handling) Rules 2001.



The Board has been functioning with 50 (Fifty) Staff as on 31-03-2003 against a sanctioned strength of 87 (Eighty Seven). The details of staff position are given at Annexure-I. The organizational chart of the Board is given at Annexure-II.

The Central Office of the Board is located at 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. 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 other activities of the Central Office of the Board are: -

- (i) Inspection of industries and local bodies.
- (ii) Monitoring the quality of water and wastewater.
- (iii) Monitoring the quality of ambient air and stack emissions.
- (iv) Inspection of sites proposed for setting up of industries to verify the suitability of the same from environmental point of view.
- (v) Water bodies monitoring under National Water Quality Monitoring (NWQM) Programme.
- (vi) Ambient air quality monitoring under National Air Monitoring Programme (NAMP).
- (vii) Offering guidance to industries and local bodies on statutory provisions.
- (viii) Issue of "Consents to Establish" and "Consents to Operate" in respects of industries, mining projects specified developmental projects and municipal bodies.

(ix) Waste Management under E.P. Act.:

- Hazardous Waste Management
- Identification of Sources
- Characterization & Quantification of Wastes
- Enforcement of provisions of the Rules
- Monitoring of compliance to standards



(x) **Bio-Medical Waste Management:**

- Identification of Sources
- Characterization & Quantification of Wastes
- Enforcement of Provisions of the Rules
- Monitoring of Compliance to Standards

(xi) Municipal Solid Waste Management Act:

- Identification of Sources
- Characterization & Quantification of Wastes
- Enforcement of provisions of the Rules
- Monitoring of Compliance to Standards

Batteries Management

- Identification of Sources
- Characterization & Quantification of Wastes
- o Enforcement of Provisions of the Rules
- o Monitoring of Compliance to Standards

(xii) Plastic Management:

- Identification of Sources
- Characterization & Quantification of Wastes
- Enforcement of Provisions of the Rules
- Monitoring of Compliance to Standards

(xiii) **Noise Pollution Management:**

- Identification of Sources in respect of industries.
- Enforcement of Provisions of the Rules in respect of industries.
- Monitoring the Compliance of Standards by industries.
- Monitoring of ambient noise in Industrial/Commercial/Residential areas.





CONSTITUTION OF THE BOARD AND 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 Dtd. the 16th November, 1983. The last reconstitution was notified out in May 1998 vide Notification No. PHE.161/83/178 Dtd. the 21st May 1998. However, the three Non-officials Members were renotified vide Notification NO.PHE.161/83/187 Dtd. the 24th March, 1999 & NO.PHE.161/83/205 Dtd. the 5th January, 2001.

The Board consists of 17(seventeen) Members nominated by the State Government as per provisions laid down in Sub-Section (2) of Section 4 of the Water (Prevention and Control of Pollution) Act 1974. Besides the Chairman and the Member Secretary, there are 5(five) official Members representing various State Government Departments, 5(five) Members representing Local Authorities, 2(two) Members representing the Co-operatives and Corporations owned, managed or controlled by the State Government and 3(three) Non-official Members. The list of the Members of the Board is appended at Annexure-III (A).

Shri H. Datta Roy continued as the Chairman during the financial year 2003-2004. Shri S.K. Blah continued as the Member Secretary of the Board upto 4th November 2003. He was succeeded by Shri A. Biswa who continued as Member Secretary during the financial year.





MEETINGS OF THE BOARD WITH MAJOR DECISIONS

During the year 2003-2004, the Board conducted the following Meetings: -

SL. NO.	MEETING NO.	DATE	VENUE	NO. OF MEMBERS ATTENDED THE MEETING
1.	39 th Board Meeting	21-08-2003	Office Chamber of the Chairman, MSPCB	8 (Eight)
2.	40 th Board Meeting	15-12-2003	Office Chamber of the Chairman, MSPCB	6 (Six)
3.	41 st Board Meeting	23-03-2004	Office Chamber of the Chairman, MSPCB	10(Ten)

The following decisions were taken in the above Meetings: -

39th BOARD MEETING

- ✓ It was decided that the Office of the Board should take necessary action to advertise the posts sanctioned by the MoEF.
- ✓ The Board decided to appoint the D. Das & Associate Chartered Accountant for auditing the Board's Accounts for the year 2002-2003 & 2003-2004 at the fees of Rs.6500/- per year.

40th BOARD MEETING

✓ It was decided that the Chairman and Member Secretary of the Board as Members of the Vehicular Pollution Control Committee should play a dominant role in controlling vehicular pollution.

41st BOARD MEETING

- ✓ It was decided that the matter of non-payment of authorization fee and non compliance to the provision of the Rules should be persuade with the concerned Dept. and Health Care Institution.
- ✓ It was decided that the matter of non-payment of Water Cess should be taken up with the defaulters.



- It was decided that the cost of repair and maintenance of instruments should be included in the Budget Provision of 2004-2005 onwards and move to the State Govt. accordingly.
- ✓ The Board approved the proposal for constitution of the Research Advisory Committee.

4

COMMITTEES CONSTITUTED BY THE BOARD AND THEIR ACTIVITIES

The "Consent Committee" and the "Purchase Committee" of the Board are the ones which were last reconstituted on the 20th November, 1998 and the 16th November, 2000 respectively. The Selection Committees for recruitment to various posts under the Board through direct recruitment or promotion were constituted during July 2003.

The Compositions of the Consent Committee, the Purchase Committee, the Selection Committee and the Promotion Committee are as given in Annexure-III (B), Annexure-III(C), Annexure-III (D), Annexure-III (E), Annexure-III (F) and Annexure-III (G) respectively.



MONITORING NETWORK FOR AIR QUALITY, WATER QUALITY, AND NOISE LEVEL

5.1 MONITORING OF AIR QUALITY

(A) NATIONAL AIR QUALITY MONITORING

There are 2(two) National Air Quality Monitoring Programme (NAMP) stations in the state and both are located in Shillong City. One station is located in the Office premises of the Board at Lumpyngngad, Shillong and the other station is located at the State Tuberculosis office building at Khyndailad, Police Bazar, Shillong.

Suspended Particulate Matter (SPM), Sulfur Dioxide (SO₂), Oxides of Nitrogen (NOx) and meteorological parameters viz. wind speed, wind direction, ambient air temperature, humidity, etc. were monitored at these NAMP stations and the observations are as given below:-



STATION AT BOARD'S OFFICE PREMISES, LUMPYNGNGAD, SHILLONG

	PARAMETERS TESTED (MONTHLY AVERAGES)			
MONTH & YEAR	SPM (µg/m³)	RSPM (µg/m³)	SO ₂ (μg/m ³)	NOx (μg/m³)
APRIL 2003	42.7	35.8	Nil	BDL
MAY 2003	43.1	34.1	Nil	BDL
JUNE 2003	40.7	32.7	-	-
JULY 2003	44.9	30.1	-	-
AUGUST 2003	38.8	26.9	-	-
SEPTEMBER 2003	35.6	26.2	BDL	7.2
OCTOBER 2003	42.3	31.1	BDL	BDL
NOVEMBER 2003	41.6	32.6	BDL	BDL
DECEMBER 2003	62.8	53.6	BDL	BDL

^{*} BDL: Below Detectable Limits

STATION AT STATE TUBERCULOSIS BUILDING, POLICE BAZAR, SHILLONG.

	PARAMETERS TESTED (MONTHLY AVERAGES)				
MONTH & YEAR	SPM (µg/m³)	RSPM (µg/m³)	SO ₂ (µg/m ³)	NOx (μg/m³)	
APRIL 2003	59.8	46.6	BDL	16.8	
MAY 2003	74.2	58.5	BDL	14.5	
JUNE 2003	73.3	59.2	BDL	12.0	
JULY 2003	78.7	61.7	BDL	13.4	
AUGUST 2003	80.4	62.4	BDL	13.4	
SEPTEMBER 2003	94.1	70.0	BDL	13.4	
OCTOBER 2003	92.5	76.9	BDL	13.4	
NOVEMBER 2003	134.5	106.7	BDL	13.4	
DECEMBER 2003	123.9	100.6	5.6	16.6	



(B) AIR QUALITY MONITORING FOR SOME INDUSTRIES

The Board carried out ambient air and source emission quality monitoring for some industrial units operating in the state. The following results were obtained during the monitoring: -

I. AMBIENT AIR QUALITY DATA.

SL. NO.	DATE	NAME OF THE INDUSTRY & LOCATION	RSPM (µg/m³)	SPM (µg/m³)	SO ₂ (µg/m ³)	NOx (μg/m³)	Remarks
1.	12.8.2003	Pawan Ispat Pvt. Ltd. Byrnihat.	-	194.2	BDL	6.1	Within permissible limits
2.	12.8.2003	Don Bosco School, Harti Bazar Byrnihat.	-	58.1	5.5	4.2	Within permissible limits
3.	7.10.2003	Jaintia Cement Ltd., (Factory Premises), Latyrke Jaintia Hills District.	93.7	132.6	BDL	7.9	Within permissible limits
4.	7.10.2003	Jaintia Cement Ltd., (Guest House), Latyrke Jaintia Hills District.	27.4	42.0	BDL	3.1	Within permissible limits

II. STACK MONITORING DATA OF SOME INDUSTRIES

SL.	DATE	NAME OF THE INDUSTRY	SPM	Remarks
NO.		& LOCATION	(µg/Nm³)	
1.	09.01.2003	M/s Hindustan Coca-Cola, Byrnihat, Ri-Bhoi District.	98.3	Within permissible limits
2.	01.08.2003	M/s Matiz Metals, EPIP, Byrnihat, Ri-Bhoi District.	53.0	Within permissible limits
3.	13.08.2003	M/s Pawan Ispat Pvt. Ltd., Harti Bazar, Byrnihat, Ri-Bhoi District.	115.0	Within permissible limits
4.	19.09.2003	M/s Ganpati Rolling Mills, Byrnihat, Ri-Bhoi District.	216.7	Within permissible limits



(C) ASSESSMENT OF VEHICULAR POLLUTION

The main sources of air pollution in the state are the vehicular exhaust emissions simply because the per capita vehicular density in the urban areas is very high. The Board has an Auto-emission-testing centre in its office premises at Lumpyngngad, Shillong which has been functioning since January 1994. This Centre caters to the exhaust testing needs for the commercial petrol - driven light 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. During the year 2003-2004, the number of vehicles tested at the Centre is as follows:-

PERIOD	TYPE OF VEHICLES	TOTAL NO. OF VEHICLES TESTED	PERCENTAGE OF VEHICLES COMPLYING TO EMISSION STANDARDS	PERCENTAGE NOT COMPLYING TO EMISSION STANDARDS
01.04.2003 to 31.03.2004	Petrol-Driven LMV	1876	77 %	23 %

5.2 MONITORING OF WATER QUALITY.

One of the major objectives of the Meghalaya State Pollution Control Board as per the Water (Prevention and Control of Pollution) Act 1974 is to promote cleanliness of water bodies in the State. To achieve this objective, the Board has been carrying out monitoring of prominent rivers/lakes and springs of the state under the following programmes:



5.2(A) MONITORING OF NATURAL WATER BODIES UNDER NWQM PROGRAMME

Under the National Water Quality Monitoring (NWQM) Programme, the Board is monitoring the water quality of eight surface water bodies namely, Umiam Lake, Ward's Lake, Umtrew river, Thadlaskein Lake, Kyrhuhkhla River, Myntdu River, Ganol River, and Simsang River on a quarterly basis and five ground water bodies namely Police Bazar Spring in Shillong; Mawpdang Spring at Mawlai; Narbong Well at Byrnihat; Wah-U-Dkhar Spring at Sohra (Cherrapunjee) and Umsahep Spring at Bapung on half-yearly basis. The analysis results obtained during 2003-2004 are shown in Tables: 1-13.

It is observed from the above-mentioned Tables, that the organic pollution in terms of Biochemical oxygen demand (BOD) and Coliform count continues to be the predominant form of pollution at almost all the monitored locations indicating that all types of waste water generated are directly discharge into the watebodies. It is further observed that the water quality of River Kyrhuhkha, which flows through the coal

mining areas of Jaintia Hills District has become highly acidic in nature with pH value recorded as low as 3.0 which is a clear indication of water pollution from coal mining activities. The monitored springs and wells revealed the presence of Total and Faecal Coliform indicating groundwater contamination.

5.2(B) ANALYSIS OF WATER SAMPLES RECEIVED BY THE BOARD'S LABORATORY

The Board analyzed 192(One hundred ninety two) water samples received from various Govt., Semi Govt. and private organizations of the State.



5.3 NOISE LEVEL MONITORING DURING DIWALI FESTIVAL.

Monitoring of noise levels was conducted in Shillong on the 17th October 2003 before Diwali and on Diwali Day i.e. the 24th October 2003 to compare the noise levels during day time and night time before and on the Festival day. The monitoring was conducted in compliance with the Govt. of India Notification NO. G.S.R. 682 (E) dated 5th October, 1999 and the interim directions of the Honorable Supreme Court.

It is observed that the daytime ambient noise levels before Diwali in almost all of the residential areas monitored have exceeded the prescribed standard, mainly due to vehicular noise. The readings taken in the commercial areas are also on the higher side due to the same reason. All the Silence Zones are in gross violation of the prescribed standard basically due to their close proximity to busy roads and intersections.

On Diwali day, readings taken in all locations are higher than the prescribed standards. However, the celebrations this year seem to be subdued as there are no readings grossly violating the standards.

It is observed that before Diwali the residential areas and almost all the commercial areas and Silence Zones conformed with the prescribed standards. In Dhankheti, Nongthymmai Bus Stand, Civil Hospital and Main Secretariat the readings taken are very high due to their close proximity to the National Highway.

On Diwali Day, the ambient night noise in all locations is observed to be slightly higher than that recorded before Diwali. However, as stated earlier, the celebrations this year seem to be subdued as there are no readings grossly violating the standards.

The daytime and night time noise readings recorded before and on Diwali day are given in Table No.14 and Table No.15 respectively.





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 2001 census is 23,06,069. Due to certain factors, the industrial development in the State has been slow and as such, the environmental pollution from industrial sources is not that significant. In the recent past, the State has been experiencing rapid population growth and fast urbanization. It is estimated that about 80% of the pollution is caused by the indiscriminate discharge or disposal of domestic sewage, trade effluents, urban solid wastes, bio-medical wastes; by domestic fuel burning and by vehicular exhaust emissions. However, the exhaust emissions from vehicles are the major contributors to air pollution since road transport is the only mode of transport in the State. Meghalaya is rich in mineral resources and the main minerals are coal and limestone, which are found in almost the entire southern belt. 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.

As per information from the Directorate of Industries, Meghalaya there are about 3,800 industrial units/establishments in the State. Most of these are small and tiny units, which are non-polluting in nature. However, some of these are polluting units and one of them is a cement plant under large-scale industrial sector, which also falls under the 17 categories of highly polluting industries. The others are medium and small-scale cement plants, lime calcination plants, ingot manufacturing and steel rolling mills, Ferro alloys manufacturing unit, stone crushing units, auto workshops and auto servicing units. Most of the lime calcination units are coal – fired and kilns are of traditional type (pajwa), which do not have even hood and chimney for venting out the smoke. So far, no cost effective pollution control system could be suggested for such units due to the peculiar nature of the kiln structures, the type of coal used and the climatic condition at the places where such unit are dominantly located.



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. 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. 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 2003-2004, the Board received 79 (Seventy nine) applications for grant of "Consent to Establish" small/medium industrial units under the Water (Prevention& Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981.Of these, 62 (Sixty two) were granted Consent to Establish.

The names of industries/firms which applied for Consent to Establish during the year 2003-2004 are as given at Annexure-IV (A). Those industries that were granted Consent to Establish during the year are as indicated at Annexure-IV (B). The industries which were granted Consent to Operate are as mentioned at Annexure-V. Further the industries, which were granted Renewal of the Consent to Establish/Operate, are shown in Annexure-VI and Annexure-VII.





ENVIRONMENTAL RESEARCH

During the year 2003-2004, the Board continued with the following study projects: -

A. "Biomapping of some important perennial rivers of Meghalaya"

The Board has obtained the sanction of Rs.2.59 lacs from the Central Pollution Control Board for the proposed study project entitled "Bio-Mapping of Perennial Rivers of Meghalaya". The project is a two years study Programme undertaken during 2002-2003, 2003-04. The sampling under the Programme had to be carried out for the 1st year and only report of the study had to be prepared during the 2nd year. The report of the one year data has already been prepared by Central Pollution Control Board, Delhi and Meghalaya State pollution Control Board. The Board has undertaken additional field work during 2003-2004 to support the findings and the final report of the data generated under the study shall be prepared by CPCB, Delhi during the year 2004-2005 in consultation with MSPCB. The rivers monitored under the study include Umkhrah, Umshyrpi, Umiam Mawphlang, Nongstoin, Myntdu, Lubha, Umngot, Kynshi, Simsang & Ganol

B. "Studies and Evaluation of Environmental and Socio-Impact of Coal Mining Impact in Jaintia Hills."

The CPCB, Delhi has sanctioned the above mentioned study in 1999-2000 at the cost of Rs 9,00,000.00 (Rupees Nine Lacs) only. The 1st installment of Rs. 4, 0,000.00 was released in February 2000.

The aims of study were to evaluate the quality of ambient air, workroom environment ground water, surface water etc. The analysis of major and trace elements was also the part of the study. The scope of the project was to evolve environmentally friendly technologies and planning for reclamation of the mined degraded land together and the study the socio economic impact of these activities.

The Board initiated the Programme during 2000-2001. Under the study, two years data were generated to get the seasonal variations and trends. The preliminary report of the work done has been submitted to CPCB during 2003-04. Some work under the study remains to be completed which shall be undertaken when the balance sanctioned amount is released by CPCB.



C. "Zoning Atlas for siting of Industries Programme"

This is a national Programme sponsored by CPCB/MoEF. The Programme aims to attain development in an environmentally sound manner for sustainable development in Meghalaya. In the second phase, the Zoning Atlas for siting of industries in Jaintia Hills, East Garo Hills, West Garo Hills and South Garo Hills Districts have been submitted to CPCB during 2003-04 for approval. The recommendations of these reports shall be implemented after the approved reports are received.

D. "Study of Water Quality of Umkhrah River"

The Board has undertaken the study Programme entitled "Assessment of Water Quality of Umkhrah River" in collaboration with center for Environmental studies, NEHU, Shillong during 2001-2002. The Programme was taken up under water cess re-imbursement funds and approved by the Ministry & Environment & Forests, GOI, New Delhi at an estimated cost of Rs. 1,46,300/- (Rupees one lakh forty six thousand and three hundred) only. The main objective of the study was to assess the pollution load in terms of physico-chemical and bacteriological parameters of the river water and to identify the sources of pollution so as to suggest/recommend suitable mitigating measures for improvement of the river water quality. Monitoring works have been started in the last part of the year 2001 and continued during the year 2002-2003. The final report of the study has been prepared in December 2003 and is under printing.



The Officers& Staff of the Board attended several training courses, workshops & seminars sponsored by the Ministry of Environment and Forests, Government of India, the Central Pollution Control Board, Delhi and other agencies. The list of the Official, who attended the training programmes during the year, is given in Annexure-IX.





ENVIRONMENTAL AWARENESS AND PUBLIC PARTICIPATION

- The Board was represented in a Mass Awareness Programme organized by the Central Water Commission in co-ordination with the Central Ground Water Board in December 2003. The programme was organized to observe the Freshwater Year, 2003.
- The Board has been assisting the P.H.E. Department, the Shillong Municipal Board, etc in monitoring water quality of Water Supply Schemes to ensure supply of safe drinking water to the public in the State. Based on the Board's reports on water quality status, some NGOs have launched the cleaning drives of rivers in Shillong like Umshyrpi, Umkhrah and others.



ENVIRONMENTAL STANDARDS INCLUDING THE TIME SCHEDULE FOR THEIR ENFORCEMENT.

The Board is adopting the standards prescribed by the Central Pollution Control Board and Ministry of Environment and Forests, Government of India. In case, the Standards of the said organizations are not available the Board follows the standards prescribed by the Indian Standards Institution. The Board is maintaining the enforcement Schedule prescribed by the Central pollution Control Board and Ministry of Environment and Forests, Government of India in respects of 17 categories of industries. However, in case of other industries, it has its own enforcement schedule, which is specified at the time of granting of "Consent to Establish" and "Consent to Operate".



PROSE PROSECUTION AND CONVICTIONS FOR ENVIRONMENTAL CONTROL

During the year, 12(Twelve) Show Cause Notices were issued to defaulting industrial units. List is placed as Annexure- VIII (A).





CLOSURE OF INDUSTRIAL POLLUTING UNIT.

During the year, 4 (four) Closure Notices were issued to defaulting industrial units. List is appended as Annexure – VIII (B).



OTHER ACTIVITIES OF THE BOARD

- 1. Functions and Activities of the Board under Rules notified under the E (P) Act, 1986 are as follows:-
- (a) Hazardous Waste (Management & Handling) Rules, 1989
 - Issue of authorization for handling of hazardous waste to occupier and operators in the State.
 - Preparation of inventory of hazardous waste generation in the State.
 - Assisting the State Govt. in inventory of disposal sites and conduct of Environmental Impact studies.
 - Monitoring of facilities/infrastructure/technical capabilities in hazardous wastes handling units.

In implementation of the Rules, the Board has issued necessary authorization to 2(two) units operating in the State for handling hazardous wastes. A draft inventory of hazardous waste generating units in the State has also been prepared and forwarded to the Central Pollution Control Board for rectification and approval. Besides monitoring of the units authorized by the Board under the Rules, the Board is also assisting Central Pollution Control Board in monitoring of 1(one) unit registered with Central Pollution Control Board as Reprocessor of hazardous waste under the Rules.

In respect of identification/notification of sites for disposal of hazardous waste, the State Govt. has not been moved in view of the fact that the quantity of hazardous waste generated at present from the 2(two) units is not so significant for establishment of common treatment and disposal facilities of hazardous wastes.



With regard to inventory of disposal sites and conduct of environmental studies, no action is required to be taken since such hazardous waste disposal sites are not in existence in the State.

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

The Board, as a 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 institution generating bio-medical waste.
- Monitoring of compliance to the prescribed norms and standards for handling & management of bio-medical waste by the concerned institutions.
- Advice the Govt. 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.

As a prescribed authority, the Board has undertaken the following activities in implementing the provision of the Rules:-

- As on 31-3-2004, the Board has identified 130 Health Care Facilities (HCF) generating bio-medical wastes which include Hospitals, Nursing Homes, Pathological Clinics, CHCs, PHCs, Dispensaries, and Veterinary Hospitals etc. Of these, 129 HCFs has applied for authorization and 23 authorizations has been issued. The authorization to 105 HCFs run by State Govt. has been withheld due to non-payment of the prescribed authorization fees.
- Annual Status Report for the year 2002-03 prepared on the basis of the Annual Reports submitted by the HCFs on handling & management of bio-medical wastes in the State has been submitted to the CPCB as required under the Rules.
- The Board has also monitored the performance of the BMW incinerators installed at NEIGRIHMS, Ganesh Das Hospital and Military Hospital, Shillong.
- The Board has also taken up with the Urban Affairs Dept. for setting up of common Bio-medical waste treatment and disposal facility.
- The Board also participating in imparting training to Health personnel on Bio-medical waste during the training courses conducted by the Health Deptt.



(c) 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 & disposal facility and landfills.
- Monitoring the performance of waste processing and disposal facility including compliance of 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.

Under the Rules, the Board has issued authorization to Shillong Municipal Board (SMB) for setting and operation of the compost plant at Mawiong and regularly monitors its performance and compliance to the prescribed standards. Besides SMB, no other Municipal Boards applied for authorization till date even though the requirements of the Rules have been brought to their notice through several reminders.

Annual Reports on Municipal Solid Wastes management for the year 2002-03 received from Municipal Authorities are compiled and the consolidated Annual Status Report submitted to CPCB as required under the Rules.

(d) Batteries (Management & Handling) Rules, 2001.

Under the Rules, the functions of the Board includes:-

- Preparation of inventory of Batteries Manufacturer, Importer, Re-conditioner, Assembler, Dealer, Re-cycler, Re-smelter & Auctioneer.
- Receipt of half-yearly returns of sales/buy back from manufacturer, importer, assembler and re-conditioner.
- Receipt of annual returns of recycling from the recyclers.
- Receipt of half-yearly returns from bulk consumers & auctioneer.
- Preparation and submission of annual compliance status report to CPCB.



The Board has issued wide publicity in the State through Newspapers on the provisions of the Rules during 2002-2003 for awareness of the concerned. As per information collected by the Board, there is no assembler, recycler, manufacturer or importer of lead acid batteries in the State. The Board has also identified about 90 organizations/establishments as bulk consumers which may also be considered as auctioneers like Govt. Depts., Military/Para Military establishments, State Transport Corporations, Industries & Companies functioning in the State.

(e) Recycled Plastics Manufacture and Usage Rules, 1999.

Under the Rules, the Board is a prescribed authority for implementation of the Rules relating to manufacturer and recycling of Plastics.

The activities of the Board includes:-

- Inventorisation of industrial units manufacturing carry bags and containers made of plastics.
- Grant of registration for manufacturing carry bags or containers made of virgin or recycled plastics.
- Monitoring the industrial units for compliance to the provision of the Rules.

At present, 3(three) units are identified in the State engaged in manufacture of bags or containers made of virgin plastics, and were directed to register with the Board as per Rules.



2. Functions and 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 year (2003-04), the amount of cess assessment is Rs.4, 77,229.00 (Rupees Four lakhs seventy seven thousand two hundred twenty nine) only and cess collection is Rs.1, 40,467.00 (Rupees One lac forty thousand four hundred sixty seven) only. The cess collection is less to assessment in view of the fact that the local authorities' viz. SMB & GHADC 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.

13 FINANCE AND ACCOUNTS.

The receipts and expenditures of the Board for the financial year 2003-2004 are appended as Annexure-X (A) and X (B) respectively.



14

ANNEXURES

ANNEXURE-I

STAFF POSITION OF THE MEGHALAYA STATE POLLUTION CONTROL BOARD AS ON 31ST MARCH 2004

	NAME OF POST			
SL. NO.	ADMINISTRATIVE & ACCOUNTS STAFF	SANCTIONED STRENGTH	WORKING STRENGTH	VACANCY
1.	Administrative Officer	1	-	1
2.	Private Secretary to Chairman	1	-	1
3.	Scientist 'B' (Eco. & Stat.)	1	-	1
4.	Legal Officer	1	1	1
5.	Junior Law Officer	1	-	1
6.	Finance & Accounts Officer	1	1	1
7.	Senior Accountant	1	1	-
8.	Establishment Officer	1	1	-
9.	Stenographer Grade II	1	1	-
10.	Statistical Assistant	1	1	-
11.	U.D.A.	4	2	2
12.	L.D.A.	7	2	5
13.	L.D.A cum Typist	5	3	2
14.	Typist	4	1	3
15.	Library Assistant	1	-	1
16.	Driver	6	5	1
17.	Handyman	1	-	1
18.	Peon / Mali / Plumber	15	8	7
19.	Chowkidar	3	2	1
	FECHNICAL STAFF			
1.	Sr. Environmental Engineer	1	-	1
2.	Environmental Engineer	2	2	-
3.	Asstt.Environmental Engg.	5	3	2
4.	Junior Environmental Engineer	1	1	-
5.	Senior Draftsman	1	-	1
6.	Tracer	2	-	2
7.	Data Entry Operator	1	-	1
	SCIENTIFIC STAFF			
1.	Sr. Scientist	1	-	1
2.	Scientist "C"	1	1	-
3.	Scientist "B"	3	2	1
4.	Scientific Assistant (Senior)	1	1	-
5.	Junior Scientific Asstt.	7	2	5
6.	Technical Assistant	2	1	1
7.	Junior Laboratory Asstt.	4	2	2
8.	Storekeeper	1	1	-
9.	Sample Collector	5	5	-
10.	Field Attendant/Laboratory Attendant	3	2	1
	TOTAL	97	50	47



ANNEXURE-III (A)

LIST OF BOARD MEMBERS FOR THE PERIOD 2003-2004

1. Chairman

Meghalaya State Pollution Control Board, Shillong. : Chairman

2. Member Secretary, : Member Convener

Meghalaya State Pollution Control Board.

OFFICIAL 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) : Member

Meghalaya, Shillong or his nominee



	MEMBERS FROM LOCAL AUTHORITIES	
8.	The Chief Executive Member,	: Member
	Khasi Hills Autonomous District Council or his nominee	
0		M 1
9.	The Chief Executive Member,	: Member
	Jaintia Hills Autonomous District Council <i>or</i> his nominee	
10.	The Chief Executive Member,	: Member
	Garo Hills Autonomous District Council or his nominee	
11.	The Chairman,	: Member
	Shillong Municipal Board <i>or</i> his nominee.	
12.	The Chairman,	: Member
14,	Tura Municipal Board <i>or</i> his nominee.	. IVICIIIUCI
	REPRESENTATIVES FROM CORPORATIONS	
13.	The Managing Director,	: Member
15.	Meghalaya Industrial Development Corporation <i>or</i> his nominee	· Memoer
	inegimaya industriai Development Corporation of ins nonlinec	
14.	The Managing Director,	: Member
	Mineral Development Corporation, Meghalaya or his nominee	
1.7	NON-OFFICIAL MEMBERS	M 1
15.	Shri.S.G.Lyngdoh,	: Member
	Mawlai Nonglum,Shillong	
16.	Shri. K.M.Warjri,	: Member
	Lawjynriew, Nongthymmai, Shillong -793014.	
17.	Shri. D.S.Laloo,	: Member
	Moodiap, Nartiang, Jowai.	



ANNEXURE- III (B)

MEMBERS OF THE CONSENT COMMITTEE FOR THE PERIOD 2003-2004

1.	Chairman	: Chairman
	Meghalaya State Pollution Control Board, Shillong.	
2.	Senior Inspector of Boilers & Factories,	
۷.	•	
	Inspectorate of Boilers & Factories,	
	Meghalaya, Shillong.	: Member
3.	Conservator of Forests,	
	Meghalaya, Shillong.	: Member
4.	Deputy Director,	
	Directorate of Industries,	
	Meghalaya, Shillong.	: Member
5.	Director of Mineral Resources,	
	Meghalaya, Shillong.	: Member
6.	Member Secretary,	
٠.	·	· Mambar Canyanan
	Meghalaya State Pollution Control Board, Shillong.	: Member Convener



ANNEXURE- III (C)

MEMBERS OF THE PURCHASE COMMITTEE DURING THE YEAR 2003-2004

1. Chairman : Chairman

Meghalaya State Pollution Control Board, Shillong.

2. Director of Industries *or* his nominee. : Member

3. Chief Engineer P.H.E Deptt. Meghalaya *or* his nominee : Member

4. The Director,

Regional Sophisticated Instrument Centre,

Bijni Complex, N.E.H.U, Shillong. : Member

5. Senior Scientist, Indian Council of Agricultural

Research(I.C.A.R), Umiam : Member

6. Member Secretary,

Meghalaya State Pollution Control Board, Shillong. : Convener



ANNEXURE- III (D)

MEMBERS OF THE SELECTION COMMITTEE FOR THE PERIOD 2003-2004 [FOR GRADE - 'A' POSTS]

1. Commissioner& Secretary,

Govt. of Meghalaya, P.H.E.Deptt., Shillong. : Chairman

2. Chairman

Meghalaya State Pollution Control Board, Shillong. : Member

3. Under Secretary,

Govt. of Meghalaya, P.H.E. Deptt. 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



ANNEXURE- III (E)

MEMBERS OF THE SELECTION COMMITTEE FOR THE PERIOD 2003-2004 [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



ANNEXURE- III (F)

MEMBERS OF THE ASSESSMENT-CUM- PROMOTION COMMITTEE FOR THE PERIOD 2003-2004 [FOR GRADE – 'A' POSTS]

1. Chairman : Chairman

Meghalaya State Pollution Control Board, Shillong.

2. Member Secretary, : Member

Meghalaya State Pollution Control Board, Shillong.

3. Senior Scientist/Scientist 'C' : Member

4. Sr. Environmental Engineer/ Environmental Engineer : Member

5. Chief Administrative Officer, : Member

O/o the C.E., P.H.E. Deptt., Meghalaya, Shillong.

6. Administrative Officer/Establishment Officer : Member Convener

Meghalaya State Pollution Control Board, Shillong.



ANNEXURE- III (G)

MEMBERS OF THE ASSESSMENT-CUM- PROMOTION COMMITTEE FOR THE PERIOD 2003-2004

[FOR GRADE - 'B', 'C' & 'D' POSTS]

1. Member Secretary, : Chairman

Meghalaya State Pollution Control Board, Shillong.

2. Chief Administrative Officer, : Member

O/o the C.E., P.H.E. Deptt., Meghalaya, Shillong.

3. Senior Scientist/Scientist 'C' : Member

4. Sr. Environmental Engineer/ Environmental Engineer : Member

5. Administrative Officer/Establishment Officer : Member Convener

Meghalaya State Pollution Control Board, Shillong.



ANNEXURE-IV (A)

LIST OF INDUSTRIES WHICH APPLIED FOR CONSENT TO ESTABLISH DURING 2003-2004

- M/s. Caspiancy Synrem Lime Kiln, Wah-u-Tin Mawmluh Cherrapunjee, East Khasi Hills.
- 2. M/s. B.Marwein Stone Crusher, Domksuh, Laitkor, East Khasi Hills.
- 3. M/s. Meghalaya Food Products, 9th Mile Baridua, Khanapara, Ri-Bhoi District.
- 4. M/s. P.A.Lyngdoh, Stone Crusher, Umphyrnai, East Khasi Hills.
- 5. M/s. Meghalaya Salt, Byrnihat, Ri-Bhoi District.
- 6. M/s. Timbers (P) Ktd, Byrnihat, Ri-Bhoi District.
- 7. M/s. Meghalaya Air Products (P) Ltd, 15th Mile, Byrnihat,Ri-Bhoi District.
- 8. M/s. Meghalaya Mineral Products, Umtru Road, EPIP, Byrnihat, Ri-Bhoi District.
- 9. M/s. Nezone Steel (Meghalaya) Ltd., EPIP, Byrnihat, Ri-Bhoi District.
- 10. M/s. K.Lyngdoh Stone Crusher, Jowai.
- 11. M/s. Maruti Service Centre, near Matri Mandir, Polo, Shillong-1
- 12. M/s. H.Lyngdoh Workshop & Servicing, Laban Last Stop, Shillong-4
- 13. M/s. Thangkhiew Stone Crusher, Nongsier, Jirang, Ri-Bhoi District
- 14. M/s. Brahmaputra Wire Products, 13th Mile, Tamulkuchi, Byrnihat, Ri-Bhoi District.
- 15. M/s. Wanplilang Stone Crusher, C/o J.Nongkynrih, Lum Sohra, Laitumkhrah, Shillong-1.
- 16. M/s. Shiva Shakti Crushing, Byrnihat, Ri-bhoi District
- 17. M/s. Jaintia Fruits Co. (P)Ltd., Amlarem, Jaintia Hills District
- 18. M/s. T.Uriah Stone Crusher, Umroi, Ri-Bhoi District
- 19. M/s. Dennis Workshop, Lumiablot, Dum-Dum, Nongthymmai, Shillong-4
- 20. M/s. Mawblei Bakery Unit, Nongkhlaw, West Khasi Hills
- 21. M/s. Surya Alloys Industries (P)Ltd. EPIP, Byrnighat, Ri-Bhoi District
- 22. M/s. Meghalaya Products, 15th Mile, Tamulkuchi, Byrnihat, Ri-Bhoi District
- 23. M/s. P.Syiem Stone Crushing Unit, Mawphlang, East Khasi Hills
- 24. M/s. Monolith Cement, 3rd Mile, Upper Shillong, Shillong-5
- 25. M/s. Hill View Steel, Mount View, Chinapatti, Malki, Shillong-1
- 26. M/s. Tyllilang Production Stone Processing Unit, Mawlai Nongkwar, Shillong-8
- 27. M/s. Heimonmitre Stone Crusher Unit, Khliehriat, Jaintia Hills District.
- 28. M/s. Umadutt Industries, Police Bazar, Shillong-1



- 29. M/s. Wankhar Stone Crusher, Mawlyngngad, Lumlyer
- 30. M/s. Auto Workshop, Pyndeng Umiong, Mairang, West Khasi Hills
- 31. M/s. Modrina Stone Crusher, Urethia, Laitlyngkot, East Khasi Hills
- 32. M/s. Marbaniang Bakery Laitryngew, Cherrapunjee, East Khasi Hills
- 33. M/s. Bijoy Industries (Cashewnuts)P.O.Phulbari, West Garo Hills
- 34. M/s. Super Motor Workshop, P.O.Shallang, West Khasi Hills.
- 35. M/s. Ginger Processing Plant, Byrnihat, Ri-Bhoi District
- 36. M/s. Ayurvedic Product, Mawiong Lumsyntiew, Nongstoin, West Khasi Hills
- 37. M/s. Stone Crusher Unit, Tetultola, P.O.Hallidaganj, Ri-Bhoi District
- 38. M/s. Stone Crusher Unit, Baldanggiri, Halidaganj, West Garo Hills Dist.
- 39. M/s. Bilinium Cements Limited Byrnihat, Ri-Bhoi District
- 40. M/s. S.Majaw Stone Crusher, Mawnianglah, 8th Mile, Upper Shillong
- 41. M/s. J.Marak Stone Crusher, Pillangkatta, Ri-Bhoi District
- 42. M/s. Beechem Pharma, Borbhuin Village, Byrnihat, Ri-Bhoi District
- 43. M/s. Marwet Chemicals, Khanapara, Behind CVS Church, Ri-Bhoi District
- 44. M/s. B.S.Marbaniang, Stone Crusher Lyniong near Mawphlang, East Khasi Hills
- 45. M/s. K.War & Sons Lime Kiln, Tyrna Sirdar ship East Khasi Hills
- 46. M/s. Sumati Stone Crushing Unit, Killapara, West Garo Hills
- 47. M/s. Pawan Casting (Meghalaya)Pvt. Ltd., Harli Bagan, Byrnihat Ri-Bhoi District.
- 48. M/s. Mirullah & Son Bakery, Police Bazaar Shillong-1
- 49. M/s. Neelu Stone Crusher Khanapara, Ri-Bhoi District
- 50. M/s. Marbaniang Lime Kiln, Chinapatti, Dhankheti, Shillong
- 51. M/s. Rimon Stone Crusher, Umeit Ri-Bhoi District
- 52. M/s. NEIGRIHMS, Kharmalki, Dhankheti, Shillong-1
- 53. M/s. Ri-Bhoi Bottling Industries, Them Marwet, Khanapara, Ri-Bhoi district
- 54. M/s. MDH Beverages (P)Ltd. Byrnihat, Ri-Bhoi District
- 55. M/s. D.Lakhmi Stone Crusher, New Amkrem, Jirang, Ri-Bhoi District
- 56. M/s. I.Lakhmi Stone Crusher, New Amkrem Jirang, Ri-Bhoi District.
- 57. M/s. Gee See Kaa, Stone Crusher, Madanryting, Shillong-21
- 58. M/s. Prashanti Associates, Byrnihat, Ri-Bhoi District
- 59. M/s. Jai Plastic (P) Ltd. Byrnihat, Ri-Bhoi District
- 60. M/s. Rani Motors, Madanryting, Shillong-21
- 61. M/s. Three Leaves Consumer Products (P)Ltd, 9th Mile, Baridua, Ri-Bhoi District.



- 62. M/s. Holiday Resort Tyngnger, Multipurpose Co.Operative Society, Tyngnger, East Khasi Hills
- 63. M/s. S.Sangma Stone Crushing Industry, Maikhuli Village, Pillangrah, Ri-Bhoi District.
- 64. M/s. Ri-Bhoi Fertilizers & Chemicals (P)Ltd, Byrnihat, Ri-Bhoi District
- 65. M/s. S.Rynjah Stone Crushing Unit Sohryngkham, Shillong-21
- 66. M/s. A.M.S. Lime Industry, Mawpdang Village, East Khasi Hill
- 67. M/s. B.K.Sangma Stone Crushing Unit, Dhanun, West Garo Hills
- 68. M/s. Dympep Stone Crusher, Wahlyngkier, Mawphlang, East Khasi Hills
- 69. M/s. Dosi Tourism (P)Ltd, Borjhora, Tekingdagiri, Garobadha, West Garo Hills.
- 70. M/s. Scooter Repair Workshop, Rapsang Building, Keating Road, Shillong-1.
- 71. M/s. Sangma Stone Crusher Industry, Pillangkatta, Ri-Bhoi District
- 72. M/s. NEIGRIHMS, Mawdiang diang, Shillong-21 (DG. Set).
- 73. M/s. Silda Milk Processing Unit, Park Field Lummawrie, Laitumkhrah, Shillong.
- 74. M/s. P.Rabha Stone crushing Industry, Patharkhmah, Ri-Bhoi District
- 75. M/s. M.P.Marak, Stone Crusher, Jirang, Ri-Bhoi District
- 76. M/s. Bijoy Industries, Phulbari, West Garo Hills,
- 77. M/s. S.K.Abdullah Stone Crusher, Jeldopara, West Garo Hills.
- 78. M/s. Monolith Cement, Umbang, Sumer, Ri-Bhoi District.
- 79. M/s. Heimonmitre Stone Crusher, Umtryna, Khliehriat, Jaintia Hills District.



ANNEXURE-IV (B)

LIST OF UNITS WHERE CONSENT TO ESTABLISH ISSUED DURING 2003-2004

- 1. M/s. S. Shangpliang Bakery, Jaiaw Langsning, Shillong
- 2. M/s. RNB Carbides Ltd. Umiam Industrial Area, Barapani, Ri-Bhoi district
- 3. M/s. Meghalaya Ispat Ltd (Sheet Galvanizing project), EPIP, Byrnihat, Ri-Bhoi District.
- 4. M/s. Varsha Fragrances (P)Ltd, Byrnihat, Ri-Bhoi District
- 5. M/s. Cold Storage, Umsning, Ri-Bhoi Distrct
- 6. M/s. N&D Bakers & Confectioners, Dhankheti, Malki, Shillong
- 7. M/s. Rabha Creations (P)Ltd, Baridua, Byrnihat, Ri-Bhoi District
- 8. M/s. B.S.Smelters, Byrnihat, Ri-Bhoi District
- 9. M/s. B.S.Smelters, Byrnihat, Ri-Bhoi District
- 10. M/s. Vishall Saw Cum Veneer (P)Ltd, G.S.Road, Shillong-1
- 11. M/s. V.M.Modern Rice Mill, Industrial Area, Barapani, Ri-Bhoi District
- 12. M/s. Godrej Sara Lee (P)Ltd, 15th Mile, Barapani, Ri-Bhoi District
- 13. M/s. York Print (P)Ltd, Baridua, Ri-Bhoi District
- 14. M/s. Jaintia Nursing Home, Bapung, Khliehriat, Jaintia Hills District
- 15. M/s. B.Umiong Motor Works Mawlait Umthli, Nongstoin West Khasi Hills.
- 16. M/s. Sangma Stone Crusher, Pillangkata, Khanapara, Ri-Bhoi District
- 17. M/s. Forbes Aquamall Ltd, Baridua, Byrnihat, Ri-Bhoi District
- 18. M/s. Greystone Smelters, Byrnihat, Ri-Bhoi District
- 19. M/s. W.Daloi Stone Crusher, Rani Jirang
- 20. M/s. Shemlin Stone Crusher, Lumheh, Laitkor, East Khasi Hills
- 21. M/s. Ambika Oils North East (P)Ltd. EPIP, Byrnihat, Ri-Bhoi District
- 22. M/s. Caspiancy Synrem Lime Kiln, Wah-u-Tin Mawmluh, East Khasi Hills.
- 23. M/s. Satya Megha Ispat (P)Ltd, 13th Mile Byrnihat, Ri-Bhoi District
- 24. M/s. B.Marwein Stone Crusher, Domkseh Laitkroh, East Khasi Hills
- 25. M/s. W.D.Stone Crusher, Pomlahiry, Mawryngkneng, Eastb Khasi Hills.
- 26. M/s. Hanny Fibre (P)Ltd. EPIP, Byrnihat, Ri-Bhoi District
- 27. M/s. S.K. (India)Wire Products, 15th Mile, Byrnihat, Ri-Bhoi District
- 28. M/s. Raka Cane & Bamboo Works, Nongsder, Ri-Bhoi District
- 29. M/s. Jaintia Ferro Alloys (P)Ltd, 13th Mile, Byrnihat, Ri-Bhoi District
- 30. M/s. Shree Sai Smelters (India) (P)Ltd 15th Mile, Byrnihat, Ri-Bhoi District



- 31. M/s. Cement Manufacturing Co.Ltd, Lumshnong, Khliehriat, Jaintia Hills District
- 32. M/s. Step Bashai Nongpiur Stone Crushing Unit, Umeit, Ri-Bhoi district
- 33. M/s. Meghalaya Foods, Products, 9th Mile, Baridua, Ri-Bhoi District
- 34. M/s. Meghalaya Foods Products, 9th Mile, Baridua, Ri-Bhoi district
- 35. M/s. Meghalaya Salt, Barbhuin village, Byrnihat, Ri-Bhoi District
- 36. M/s. Thangkhiew Stone Crushing, Rani Jirang, Ri-Bhoi District
- 37. M/s. Brahmaputra Wire products, 13th Mile, Byrnihat, Ri-Bhoi District
- 38. M/s. Wanplilang Stone Crusher, Umdih, Umphyrnai, East Khasi Hills
- 39. M/s. Shiva Shakti Stone Crusher, Maikhuti Village, Ri-Bhoi District
- 40. M/s. T.Uriah Stone Crusher, Umlympung Village, Mylliem, East Khasi Hills
- 41. M/s. Mawblei Bakery Unit, Nongkhlaw, Nongbah, West Khasi Hills
- 42. M/s. Surya Alloys Industries, 13th Mile, Byrnihat, ri-Bhoi District
- 43. M/s. Meghalaya Products, 13th Mile, Byrnihat, Ri-Bhoi District
- 44. M/s. P.Syiem Stone Crusher, Mawpdang Village, East Khasi Hills
- 45. M/s. D.R.Ryntathiang Stone Crusher, Mawkasiang, East Khasi Hills
- 46. M/s. Hill View Steel, 10th Mile, Mawsmai, Ri-Bhoi District
- 47. M/s. Tyllilang Production Stone processing Unit, Barapani Industrial Area, Ri-Bhoi District
- 48. M/s. B. Wankhar Stone Crusher Lumlyer, East Khasi Hills
- 49. M/s. Modrina Stone Crusher, Umthli Laitlyngkot, East Khasi Hills
- 50. M/s. Marbaniang Bakery, laitryngew, East Khasi Hills
- 51. M/s. NERAMAC (North East Regional Agricultural Marketing, EPIP, Byrnihat Ri-Bhoi District.
- 52. M/s. Billenium Cement ltd., Damas, East Garo Hills
- 53. M/s. S.Majaw Stone Crusher, Mawnianglah, Upper Shillong, East Khasi Hills
- 54. M/s. Marwet Chemicals, Khanapara, Ri-Bhoi District.
- 55. M/s. B.S.Marbaniang Stone Crusher, Lyngiong, East Khasi Hills.
- 56. M/s. Kelson War & Sons Lime Kiln, Tyrna, East Khasi Hills.
- 57. M/s. Neelu Stone Crusher, Pathak Paham, Ri-Bhoi District.
- 58. M/s. Marbaniang Lime Kiln, Ummawiong, Rangsohkham, East Khasi Hills.
- 59. M/s. Monolith Cement, Umbang, Sumer, Ri-Bhoi District
- 60. M/s. Heimonmitre Stone Crusher, Untyrna, Khliehriat, Jaintia Hills
- 61. M/s. Rimar Stone Crusher, Umeit, Ri-Bhoi District
- 62. M/s. Prashanti Associates, Umtyrnga, barapathar, Ri-Bhoi District



ANNEXURE - V

LIST OF UNITS WHERE CONSENT TO OPERATE ISSUED DURING 2003-2004

- 1. M/s. J.S.Shangpliang Bakery, Jaiaw Langsning, Shillong-2
- 2. M/s. Megha Alloys (P)ltd, EPIP, Byrnihat, Ri-Bhoi District
- 3. M/s. Meghalaya Alloys (P)Ltd, Byrnihatm Ri-Bhoi District
- 4. M/s. Pawan Ispat (P)Ltd, Byrnihat, Ri-bhoi District
- 5. M/s. Ganpati Rolling Mills (P)Ltd, Khanapara, Baridua, Ri-Bhoi District
- 6. M/s. K.K.Beverages (P)Ltd, Khanapara, Baridua, Ri-Bhoi District
- 7. M/s. Meghalaya Steel Ferro Alloys EPIP, Byrnihat, Ri-Bhoi District
- 8. M/s. H.M.Cements ltd, Upper Batiyan Village, Byrnihat
- 9. M/s. R,N,B, Carbides Ltd., Umiam Industrial Area, Ri-Bhoi District
- 10. M/s. A.T.C. Agro Industries Ltd, Byrnihat, Ri-Bhoi District
- 11. M/s. Vansha Gragrances (P)Ltd, Byrnihat, Ri-Bhoi District
- 12. M/s. Commercial Iron & Steel Co. (P)Ltd, Byrnihat, Ri-Bhoi district
- 13. M/s. Shyam Century Ferrous Ltd, Byrnihat, Ri-Bhoi District
- 14. M/s. Goenka Engineering Works, Keating Road, Shillong
- 15. M/s. R.N.B.Minerals & Chemicals (P)Ltd, Umiam Industrial Area, Ri-Bhoi District
- 16. M/s. Matiz Metals (P), Byrnihat, Ri-Bhoi District
- 17. M/s. Poly Pack Industries, Barapani, Ri-Bhoi District
- 18. M/s. Meghalaya Carbide & Chemicals (P)Ltd, EPIP, Byrnihat, Ri-Bhoi District
- 19. M/s. Brahm India (P)Ltd. EPIP, Byrnihat, Ri-Bhoi District
- 20. M/s. Shree Sai Smelters (India) (P)Ltd., Rangsangkana, Byrnihat, Ri-Bhoi District.
- 21. M/s. Aliasgar Stone Crusher, Byrnihat, Ri-Bhoi District
- 22. M/s. Vishal Saw-Cum-Veneer Mill (P)Ltd. g.S.Road, Shillong-1
- 23. M/s. Marak Plastics, 15th Mile, Byrnihat, Ri-Bhoi District
- 24. M/s. H.K.S. Stone Crusher Plant, Raid Marwet, Ri-Bhoi District
- 25. M/s. Kakarania Innovative Systems (P)ltd. EPIP, Byrniaht, Ri-Bhoi District
- 26. M/s. Meghalaya Cast & Alloys (P)Ltd. Halibagan, Byrnihat, Ri-Bhoi District
- 27. M/s. Ri-Bhoi Engg. Co.(P)Ltd, Byrnihat, Ri-Bhoi District
- 28. M/s. Eastern Panorama, Offset printing Press, Keating Road, Shillong
- 29. M/s. Shiramani Food Products (P)Ltd, Baridua, Ri-Bhoi District
- 30. M/s. Forbes Aquamall Ltd., Baridua, Ri-Bhoi District



- 31. M/s. W.Doi Stone crusher, Rani, Jirang, Ri-Bhoi District
- 32. M/s. Omni Agate Systems (P)Ltd, Byrnihat, Ri-Bhoi District
- 33. M/s. Dogue Auto Centre, Mawlai Iewrynghep, Shillong-8
- 34. M/s. North East Power Line (Assembly Unit), Baridua, Ri-Bhoi District
- 35. M/s. Shree Sai Smelters (India)(P)Ltd, 15th Mile, Byrnihat, Ri-Bhoi District
- 36. M/s. Brahmaputra Wire Products, 13th Mile, Byrnihat, Ri-Bhoi District
- 37. M/s. Tyllilang Production Stone Processing Unit, Barapani Industrial Area, Ri-Bhoi District.
- 38. M/s. Marbaniang Bakery Laitryngew, East Khasi Hills



ANNEXURE -VI

LIST OF UNITS WHICH HAVE RECEIVED RENEWAL OF CONSENT TO ESTABLISH DURING 2003- 2004

- 1. M/s. Meghalaya Fusions Ltd, Byrnihat, Ri-Bhoi District
- 2. M/s. Lummawshun Mining Co-operation, Shella, East Khasi Hills
- 3. M/s. G.Chyne Lime Works, Jatap Mustoh, East Khasi Hills
- 4. M/s. Yalana Hotel, Laitumkhrah Main Road, Shillong
- 5. M/s. Pyngrope Motor Works, Mawlai Umjaiur, Shillong-8
- 6. M/s. Flagon Distillaries & Bottlers (P) Ltd, Byrnihat, Ri-Bhoi District
- 7. M/s. Anirudha Steels (P)Lt d, Byrnihat, Ri-Bhoi District
- 8. M/s. ToTo Sohkhlet Lime Kiln, Mawlong, East Khasi Hills
- 9. M/s. Servell Enterprise, Jingkieng, Nongthymmai, Shillong
- 10. M/s. Bashai Motor Workshop, Umpling, Shillong
- 11. M/s. Fazal Haque Crusher Machine, Halladigang West Garo Hills
- 12. M/s. Sonapani Mini H.E.Project, MeSEB, Lumjingshai, East Khasi Hills
- 13. M/s. Lakroh Mini Hydel Project MeSEB, Jaintia Hills
- 14. M/s. Tyllilang Society, Mawkhar, Marbisu, East Khasi Hills
- 15. M/s. Lafarge Umiam Mining (P)Ltd, Shella, East Khasi Hills
- 16. M/s. P.Nongkhlaw Lime, Laitlyngkot, East Khasi Hills
- 17. M/s. Nonghuloo Stone Crushing Unit, Sohmynting, Jaintia Hills
- 18. M/s. M.M. Enterprise, Pomshutia, East Khasi Hills
- 19. M/s. Panchumukhi Processors (Megha)(P)Ltd, Khanapara, Ri-Bhoi District
- 20. M/s. Syiem Auto Workshop, Mawblei, Madanryting, shillong-21
- 21. M/s. Annies Bakery, Kenche's Trace, Red Cross, Laban, Shillong
- 22. M/s. Mawlong Stone Crusher, C/o Mawlong Construction Industry, Lundiengjri, Shillong.



ANNEXURE - VII

LIST OF UNITS WHICH HAVE RECEIVED RENEWAL OF CONSENT TO OPERATE DURING 2003- 2004

- 1. M/s. Meghalaya Electronics Development Corporation (MEDC)Meghalaya, Shillong
- 2. M/s. Meghalaya Fruit Preservation, Fruit Garden, Shillong
- 3. M/s. Meghalaya Cherra Cement Ltd. (MCCL), Cherrapunjee, East Khasi Hills
- 4. M/s. Meghalaya Lime & Minerals Industry, Byrnihat, Ri-Bhoi District
- 5. M/s. Wood's Garage, Laitumkhrah, Shillong-3
- 6. M/s. Eastyllian Rynjah Bakery, Lawjynriew, Nongthymmai, shillong-3
- 7. M/s. Indian Oil Corporation, Barapani, Ri-Bhoi District
- 8. M/s. Kommorah Lime Stone Mining Co.Ltd. Ichamati, East Khasi Hills
- 9. M/s. Mahabir Flour Mill, Lukier Road, Shillong
- 10. M/s. Meghalaya Bamboo Chips Ltd, & Garo Hills
- 11. M/s. Megha Polycon (P)Ltd., G.S,Road, Byrnihat, Ri-Bhoi District
- 12. M/s. Bol's Bakes, Bishop Falls, Mawprem, Shillong
- 13. M/s. Byrnihat Oxygen (P)Ltd. Byrnihat, Ri-Bhoi District
- 14. M/s. Dhiren Das, Ashok Engineering, Lower Maxwetton Compound, Kench's Trace, Shillong.
- 15. M/s. Me.S.E.B. (Leshka Stage-I Project), Lumjingshai, Shillong
- 16. M/s. K.K. Beverages (P)Ltd, Khanapara, Ri-Bhoi District
- 17. M/s. Shivam Ispat & Alloys (P)Ltd., Byrnihat, Ri-Bhoi District
- 18. M/s. Tony Passah, Mechanical Engineering Works, Panaliar, Jowai
- 19. M/s. Grey Stone Ispat (P)Ltd, East Garo Hills
- 20. M/s. Meghalaya Steel (P)Ltd., Norbong, Byrnihat, Ri-bhoi District
- 21. M/s. Gee See Kaa Stone Crusher, Madanryting, Shillong
- 22. M/s. B.Lyngdoh, Diesel Generator, Kench's Trace, Laban, Shillong-4
- 23. M/s. Pioneer Carbide (P)Ltd., Byrnihatm Ri-Bhoi District
- 24. M/s. Martex Smelters (P)Ltd., Byrnihat, Ri-Bhoi District
- 25. M/s. Shivani Ispat & Rolling Mill (P)Ltd., Tamulkuchi, Byrnihat, Ri-Bhoi District.
- 26. M/s. Commercial iron & Steel Co. (P)Ltd., Byrnihat, Ri-Bhoi District
- 27. M/s. Megha Plastics (P)Ltd., Umtru Road, Baligan, Byrnihat, Ri-Bhoi District
- 28. M/s. Goenka Engineering Works, Keating Road, Shillong
- 29. M/s. Matiz Metals (P)Ltd., Byrnihat, Ri-Bhoi District



- 30. M/s. Meghalaya Sova Ispat & Alloys (P)Ltd., EPIP, Byrnihat, ri-bhoi District
- 31. M/s. Meghalaya Minerals & Mines (P)Ltd, Lumshnong, Khliehriat, Jaintia Hills District
- 32. M/s. Cherub Naturals (P)Ltd., 15th Mile, Byrnihat, Ri-Bhoi District
- 33. M/s. Synergy Composites (P)Ltd., Dhankheti, Shillong
- 34. M/s. Godrej Saralee Ltd, Byrnihat, Ri-Bhoi District
- 35. M/s. Megha Candles (P)Ltd., Byrnihat, Ri-bhoi District
- 36. M/s. Ishaan Technology (P)Ltd., Byrnihat, Ri-Bhoi District



ANNEXURE -VIII (A)

LIST OF UNITS WHERE SHOW CAUSE ARE ISSUED AGAINST THEM DURING 2003 - 2004

- 1. M/s. R.Sangai Lime Kiln, Nongjri Village, Pynursla, East Khasi Hills
- 2. M/s. Rilum Motor Works, Kench's Trace, Laban, Shillong
- 3. M/s. Meghalaya Fusions (P)Ltd, Byrnihat, Industrial Area, Ri-Bhoi District
- 4. M/s. Studio 223, Dhankheti, Shillong
- 5. M/s. Jana Rynjah, Steel Fabrication, Lumparing, Shillong
- 6. M/s. Kupar Blah Lime Kiln, Umbang, Sumer, Ri-Bhoi District
- 7. M/s. E.Sohkhlet Enterprise Lime Kiln, Mawsmai, Cherrapunjee, East Khasi Hills
- 8. M/s. R.Lyngdoh, Them Marwet, khanapara, Ri-Bhoi District
- 9. M/s. Jaintia Ferro Alloys (P)Ltd., 13th Mile, Tamulkuchi, Byrnihat, Ri-Bhoi District
- 10. M/s. Bimla Ispat & Alloys (P)Ltd., Byrnihat, Ri-Bhoi district
- 11. M/s. Satya Megha Ispat (P)Ltd., Tamulkuchi, Byrnihat, Ri-Bhoi District
- 12. M/s. Trishul Hi Tech Industries, EPIP, Byrnihat, Ri-Bhoi District



ANNEXURE -VIII (B)

LIST OF INDUSTRIES WHICH CLOSURE NOTICE IS ISSUED DURING 2003 – 2004

- 1. M/s. Jaintia Ferro Alloys, Tamulkuchi, Byrnihat, Ri-Bhoi District
- 2. M/s Satya Megha Ispat (P) Ltd, Byrnihat, Ri Bhoi Dist.



ANNEXURE-IX

	TRAININGS BETWEEN 1 st APRIL 2003 UPTO 31 st MARCH 2004					
SL. NO.	NAME & DESIGNATION	NAME OF TRAINING	PLACE OF TRAINING	PERIOD OF TRAINING		
1.	Shri. S.C.Katiyar, Scientist 'C'	Policies and Strategies for Air Quality Management.	I.I.T, Mumbai	14 th to 18 th April 2003		



ANNEXURE - X (A)

RECEIPTS AND PAYMENT ACCOUNT FOR THE YEAR 2003-2004 $$\rm RECEIPTS\ A/C.$

	<u>P18_A/C</u> .	
Dening Balances: Cash in hand	: 3126	
• Cash in hand	: 3126	
• Cash at bank:		
In Savings Bank Account		
With Indian Overseas Bank,		
Shillong, (3488)	: (22123.36)	
Indian Overseas Bank,		
Shillong (6757)	: 7863669.53	
Indian Bank, Shillong	: (14076.40)	
Bank of India,	(21213113)	
Shillong on:-		
Account No. 544	: (14902.50)	
Account No.1242	: 4088478.30	
Account No.1090	: 734223.60	
Account No.1987	: 4277325.97	
Account No.3006	: 250833.00	
Vijaya Bank on		
Account No.7658	: 1929433.00	
• In Fixed Deposit:		
With Indian Overseas Bank, Shillong	: 2732233.00	
Bank of India,	: <u>846797.00</u>	2,26,71,922.40
• Grant received from:		
Ministry of Environment and Forests,		
Govt. of India,	:	
Department of Public Health Engineering,		
Govt. of Meghalaya.	: 10934000.00	
Central Pollution Control Board,	: <u>354386.00</u>	1, 12,88,386.00
Govt. of India		
Grant in aid received from:		
Other Agencies	:	
Fees	: 1743329.00	
• Interest on Investments	: 578875.00	
Miscellaneous receipts	: 51005.00	
Miscellaneous advances	: 235311.00	
 Deposits 	: <u>789090.00</u>	33,97,610.00
Liabilities for Expenses	:	5, 67,448.00
Forest Royalty	:	24,915.00
House Rent	:	1,104.00
Income Tax	:	66,434.00
Professional Tax	:	32,965.00
Sales Tax deducted at source	:	13,823.00
TOTAL (Rupees)	:	3, 80,64,607.40

N.B: Receipts & Payments Accounts for the year 2003 -2004 are unaudited



ANNEXURE - X(B)

•	Fixed Assets	: 785759.00	
•	Other Assets:		
	Scientific Instrument and		
	Office Appliances	: 238124.00	
	Tools and Plants	: <u>1930.00</u>	10, 25,813.00
•	Revenue Expenditure:		
	Administration:		
	Pay & Allowances to Officers and Staff	: 7375212.00	
	Contribution to P.F	: 520918.00	
	Contingent Expenditure	: 631833.80	85, 27,963.80
•	Grant –in – Aid disbursed to		, ,
	MeSEB, Shillong		
	Board Laboratory	:	1, 33,471.00
•		· ·	
•	Running and Maintenance of vehicles	:	31,734.00
	Repairs and Maintenance	:	31,559.00
	Advances	:	2, 97,436.00
•	Deposits	:	75,890.00
•	Liabilities for Expenses	:	19,500.00
	House Rent	:	1,012.00
	Income Tax	:	70,300.00
•	Professional Tax	:	32,965.00
	Closing Balances:		
•	Cash in hand	: 753.26	
•	Cash at Bank In Savings Bank Account:		
	With Indian Overseas Bank, Shillong on:		
	Account No. 3488	: (22123.36)	
	Account No. 425	: 2560.00	
	Account No. 6757	: 1909011.53	
	Account No. 3226	: 80259.00	
	Indian Bank, Shillong	: (14076.40)	
	Bank of India, Shillong on:		
	Account No.544	: (14902.50)	
	Account No. 1242	: 6086582.68	
	Account No.1090	: 326978.60	
	Account No 1987	: 1130205.11	
	Account No 3006	: 191650.54	
	Account No 3100	: 3370947.14	
	Vijaya Bank on:	. 3370717.11	
	Account No. 7658	: 4604564.00	
•	In Fixed Deposit Account:		
	With Indian Overseas Bank, Shillong	: 7482421.00	
	Bank of India, Shillong	: <u>2682133.00</u>	2, 78,16,963.60
	•		
	TOTAL (Rupees)	:	3, 80,64,607.40

N.B: Receipts & Payments Accounts for the year 2003 - 2004 are unaudited





Table - 1
WATER QUALITY OF UMTREW RIVER

PARAMETER	APRIL 2003	JULY 2003	OCT. 2003	JAN. 2004
рН	7.2	7.3	7.1	7.0
Conductivity (µmho/cm²)	260.4	192.4	210.2	
Turbidity (NTU)		36.0		
Chloride (mg/l)		21.0		
Hardness (mg/l)		20.0		
Alkalinity (mg/l)		18.0		
Nitrite (mg/l)	Nil	Nil	BDL	0.004
Nitrate (mg/l)	11.4	1.2	1.5	8.0
Sulphate (mg/l)		4.6		
Phosphate (mg/l)		BDL		
Calcium (mg/l)		12.0		
Dissolved Oxygen (mg/l)	6.2	6.4	7.0	5.9
Biochemical Oxygen Demand (mg/l)	7.6	6.5	6.0	7.2
Chemical Oxygen Demand (mg/l)		20.0		
Ammonia Nitrogen (mg/l)		0.7		
Kjeldahl Nitrogen (mg/l)		1.3		
Total Dissolved Solids (mg/l)		140.2		
Total Coliform (MPN/100 ml)	340	180	280	330
Faecal Coliform (MPN/100 ml)	270	140	180	230
Sodium (mg/l)		3.0		
Potassium (mg/l)		2.0		
Magnesium (mg/l)		8.0		
TSS (mg/l)		120.2		
Flouride (mg/l)		0.04		
Arsenic (µg/l)		Nil		
Cadmium (µg/l)		Nil		
Copper (µg/l)		Nil		
Lead (µg/l)		Nil		
Chromium (µg/l)		Nil		
Nickel (μg/l)		Nil		
Zinc (µg/l)		Nil		
Iron (mg/l)		1.9		
Temperature ° C	20.0	25.0	25.0	15.0



Table – 2WATER QUALITY OF UMIAM LAKE

PARAMETER	APRIL 2003	JULY 2003	OCT. 2003	JAN. 2004
рН	7.0	7.5	7.2	6.8
Conductivity (µmho/cm²)	275.5	215.0	220.5	286.0
Turbidity (NTU)		32.0		
Chloride (mg/l)		12.0		
Hardness (mg/l)		32.0		
Alkalinity (mg/l)		32.0		
Nitrite (mg/l)	0.3	Nil	Nil	0.06
Nitrate (mg/l)	11.6	2.0	2.5	8.0
Sulphate (mg/l)		4.0		
Phosphate (mg/l)		BDL		
Calcium (mg/l)		3.0		
Dissolved Oxygen (mg/l)	6.4	6.8	6.2	6.5
Biochemical Oxygen Demand (mg/l)	12.5	8.0	10.0	9.6
Chemical Oxygen Demand (mg/l)		24.0		
Ammonia Nitrogen (mg/l)		1.1		
Kjeldahl Nitrogen (mg/l)		1.8		
Total Dissolved Solids (mg/l)		150.8		
Total Coliform (MPN/100 ml)	3300	2200	3400	3500
Faecal Coliform (MPN/100 ml)	2600	1700	2200	1700
Sodium (mg/l)		4.0		
Potassium (mg/l)		3.4		
Magnesium (mg/l)		4.0		
TSS (mg/l)		90.2		
Flouride (mg/l)		0.04		
Arsenic (µg/l)		Nil		
Cadmium (µg/l)		Nil		
Copper (µg/l)		Nil		
Lead (µg/l)		Nil		
Chromium (µg/l)		Nil		
Nickel (µg/l)		Nil		
Zinc (µg/l)		0.006		
Iron (mg/l)		0.1		
Temperature ° C	17.0	24.0	24.0	12.0



Table – 3
WATER QUALITY OF WARD'S LAKE

PARAMETER	APRIL 2003	JULY 2003	OCT. 2003	JAN. 2004
pН	7.2	7.1	7.0	7.0
Conductivity (µmho/cm²)	220.5	267.0	245.2	275.5
Turbidity (NTU)		32.0		
Chloride (mg/l)		13.0		
Hardness (mg/l)		36.0		
Alkalinity (mg/l)		36.0		
Nitrite (mg/l)	Nil	NiL	Nil	Nil
Nitrate (mg/l)	4.5	2.4	3.0	5.4
Sulphate (mg/l)		7.7		
Phosphate (mg/l)		BDL		
Calcium (mg/l)		34.0		
Dissolved Oxygen (mg/l)	6.5	7.2	7.8	7.0
Biochemical Oxygen Demand (mg/l)	13.0	8.8	8.5	12.0
Chemical Oxygen Demand (mg/l)				
Ammonia Nitrogen (mg/l)		1.6		
Kjeldahl Nitrogen (mg/l)		2.8		
Total Dissolved Solids (mg/l)		182.5		
Total Coliform (MPN/100 ml)	3400	2600	2200	2800
Faecal Coliform (MPN/100 ml)	1280	1580	1100	1880
Sodium (mg/l)		6.0		
Potassium (mg/l)		4.0		
Magnesium (mg/l)		2.0		
TSS (mg/l)		95.2		
Flouride (mg/l)		0.03		
Arsenic (µg/l)		Nil		
Cadmium (µg/l)		Nil		
Copper (µg/l)		Nil		
Lead (µg/l)		Nil		
Chromium (µg/l)		Nil		
Nickel (μg/l)		Nil		
Zinc (µg/l)		0.005		
Iron (mg/l)		0.4		
Temperature ° C	20.0	18.0	15.0	12.0



Table – 4WATER QUALITY OF THADLASKEIN LAKE

PARAMETER	APRIL 2003	JULY 2003	OCT. 2003
рН	6.8	7.0	7.1
Conductivity (µmho/cm2)	122.0	105.5	118.5
Turbidity (NTU)		11.0	
Chloride (mg/l)		7.0	
Hardness (mg/l)		16.0	
Alkalinity (mg/l)		14.0	
Nitrite (mg/l)	0.1	Nil	
Nitrate (mg/l)	2.9	1.2	
Sulphate (mg/l)		2.3	
Phosphate (mg/l)		Nil	
Calcium (mg/l)		10.0	
Dissolved Oxygen (mg/l)	5.8	6.6	6.4
Biochemical Oxygen Demand (mg/l)	6.5	5.4	5.6
Chemical Oxygen Demand (mg/l)		16.0	
Ammonia Nitrogen (mg/l)		0.8	
Kjeldahl Nitrogen (mg/l)		1.5	
Total Dissolved Solids (mg/l)		82.2	
Total Coliform (MPN/100 ml)	140	79	63
Faecal Coliform (MPN/100 ml)	70	49	43
Sodium (mg/l)		1.0	
Potassium (mg/l)		Nil	
Magnesium (mg/l)		6.0	
TSS (mg/l)		52.5	
Flouride (mg/l)		0.02	
Arsenic (µg/l)		Nil	
Cadmium (µg/l)		Nil	
Copper (µg/l)		Nil	
Lead (µg/l)		Nil	
Chromium (µg/l)		Nil	
Nickel (μg/l)		Nil	
Zinc (µg/l)		0.02	
Iron (mg/l)		0.3	
Temperature o C	20.0	14.0	12.0



Table – 5WATER QUALITY OF KYRHUHKHLA LAKE

PARAMETER	APRIL 2003	JULY 2003	OCT. 2003
рН	3.2	3.0	3.1
Conductivity (µmho/cm²)	820.0	362.3	410.8
Turbidity (NTU)		35.0	
Chloride (mg/l)		24.0	
Hardness (mg/l)		18.0	
Acidity (mg/l)		52.2	
Nitrite (mg/l)	0.05	Nil	Nil
Nitrate (mg/l)	1.5	0.6	2.0
Sulphate (mg/l)	1.5	120.5	2.0
Phosphate (mg/l)		Nil	
Calcium (mg/l)		12.0	
Dissolved Oxygen (mg/l)	5.1	6.8	5.8
Biochemical Oxygen Demand (mg/l)	6.0	4.6	7.3
Chemical Oxygen Demand (mg/l)		15.0	
Ammonia Nitrogen (mg/l)		1.0	
Kjeldahl Nitrogen (mg/l)		1.5	
Total Dissolved Solids (mg/l)		265.8	
Total Coliform (MPN/100 ml)	26	26	33
Faecal Coliform (MPN/100 ml)	13	17	26
Sodium (mg/l)		1.0	
Potassium (mg/l)		Nil	
Magnesium (mg/l)		6.0	
TSS (mg/l)		232.5	
Flouride (mg/l)		0.02	
Arsenic (µg/l)		Nil	
Cadmium (µg/l)		Nil	
Copper (µg/l)		Nil	
Lead (µg/l)		Nil	
Chromium (µg/l)		Nil	
Nickel (μg/l)		Nil	
Zinc (µg/l)		0.1	
Iron (mg/l)		6.9	
Temperature ° C	22.0	23.0	13.0



Table – 6WATER QUALITY OF MYNTDU RIVER

PARAMETER	APRIL 2003	JULY 2003	OCT. 2003
рН	6.9	7.0	7.1
Conductivity (µmho/cm²)	156.0	128.5	136.4
Turbidity (NTU)		40.0	
Chloride (mg/l)		9.0	
Hardness (mg/l)		26.0	
Alkalinity (mg/l)		14.0	
Nitrite (mg/l)	Nil	Nil	Nil
Nitrate (mg/l)	1.3	2.4	2.8
Sulphate (mg/l)	-10	5.5	_,_
Phosphate (mg/l)		Nil	
Calcium (mg/l)		18.0	
Dissolved Oxygen (mg/l)	8.0	7.2	6.8
Biochemical Oxygen Demand (mg/l)	2.3	2.8	2.9
Chemical Oxygen Demand (mg/l)		12.0	
Ammonia Nitrogen (mg/l)		1.1	
Kjeldahl Nitrogen (mg/l)		2.0	
Total Dissolved Solids (mg/l)		88.4	
Total Coliform (MPN/100 ml)	2200	920	920
Faecal Coliform (MPN/100 ml)	1400	540	350
Sodium (mg/l)		1.0	
Potassium (mg/l)		1.0	
Magnesium (mg/l)		8.0	
TSS (mg/l)		68.5	
Flouride (mg/l)		0.04	
Arsenic (µg/l)		Nil	
Cadmium (µg/l)		Nil	
Copper (µg/l)		Nil	
Lead (µg/l)		Nil	
Chromium (µg/l)		Nil	
Nickel (μg/l)		Nil	
Zinc (µg/l)		0.008	
Iron (mg/l)		0.5	
Temperature ° C	20.0	16.0	15.0



Table – 7WATER QUALITY OF GANOL RIVER, TURA

PARAMETER	APRIL 2003	JULY 2003	OCT. 2003	JAN. 2004
pH	6.8	7.1	7.0	6.9
Conductivity (µmho/cm²)	145.0	105.2	138.5	135.8
Turbidity (NTU)		12.0		
Chloride (mg/l)		7.0		
Hardness (mg/l)		22.0		
Alkalinity (mg/l)		20.0		
Nitrite (mg/l)	Nil	Nil	Nil	Nil
Nitrate (mg/l)	1.4	1.0	1.2	4.2
Sulphate (mg/l)	2	3.2	1,2	
Phosphate (mg/l)		Nil		
Calcium (mg/l)		16.0		
Dissolved Oxygen (mg/l)	6.7	7.2	6.8	6.8
Biochemical Oxygen Demand (mg/l)	2.5	1.0	1.5	2.0
Chemical Oxygen Demand (mg/l)		4.0		
Ammonia Nitrogen (mg/l)		1.2		
Kjeldahl Nitrogen (mg/l)		2.0		
Total Dissolved Solids (mg/l)		75.8		
Total Coliform (MPN/100 ml)	140	280	170	220
Faecal Coliform (MPN/100 ml)	97	220	70	130
Sodium (mg/l)		2.0		
Potassium (mg/l)		1.0		
Magnesium (mg/l)		4.0		
TSS (mg/l)		60.4		
Flouride (mg/l)		0.06		
Arsenic (µg/l)		Nil		
Cadmium (µg/l)		Nil		
Copper (µg/l)		Nil		
Lead (µg/l)		Nil		
Chromium (µg/l)		Nil		
Nickel (µg/l)		Nil		
Zinc (µg/l)		Nil		
Iron (mg/l)		0.2		
Temperature ° C	23.0	20.0	22.0	14.0



Table – 8WATER QUALITY OF SIMSANG RIVER, WILLIAMNAGAR

PARAMETER	APRIL 2003	JULY 2003	OCT. 2003	JAN. 2004
рН	7.0	7.1	7.2	7.0
Conductivity (µmho/cm²)	161.0	128.0	145.6	144.3
Turbidity (NTU)		34.0		
Chloride (mg/l)		11.0		
Hardness (mg/l)		24.0		
Alkalinity (mg/l)		24.0		
Nitrite (mg/l)	Nil	0.03	Nil	0.009
Nitrate (mg/l)	1.3	1.0	1.5	1.8
Sulphate (mg/l)	1.0	4.5	1.0	
Phosphate (mg/l)		Nil		
Calcium (mg/l)		22.0		
Dissolved Oxygen (mg/l)	6.2	7.0	6.4	6.8
Biochemical Oxygen Demand (mg/l)	3.5	2.0	2.5	2.2
Chemical Oxygen Demand (mg/l)		12.0		
Ammonia Nitrogen (mg/l)		1.0		
Kjeldahl Nitrogen (mg/l)		1.6		
Total Dissolved Solids (mg/l)		90.2		
Total Coliform (MPN/100 ml)	540	1600	540	350
Faecal Coliform (MPN/100 ml)	240	920	350	110
Sodium (mg/l)		2.0		
Potassium (mg/l)		1.0		
Magnesium (mg/l)		2.0		
TSS (mg/l)		58.4		
Flouride (mg/l)		Nil		
Arsenic (µg/l)		Nil		
Cadmium (µg/l)		Nil		
Copper (µg/l)		Nil		
Lead (µg/l)		Nil		
Chromium (µg/l)		Nil		
Nickel (μg/l)		Nil		
Zinc (µg/l)		Nil		
Iron (mg/l)		0.9		
Temperature ° C	25° C	25° C	22° C	15° C



Table – 9WATER QUALITY OF POLICE BAZAR SPRING, SHILLONG

PARAMETER	APRIL 2003	OCT. 2003
рН	6.8	6.6
Conductivity (µmho/cm²)	170.2	178.8
Turbidity (NTU)	10.0	
Chloride (mg/l)	25.0	
Hardness (mg/l)	50.5	
Alkalinity (mg/l)	18.0	
Nitrite (mg/l)	Nil	Nil
Nitrate (mg/l)	7.2	4.2
Sulphate (mg/l)	1.0	2
Phosphate (mg/l)	Nil	
Calcium (mg/l)	42.0	
Dissolved Oxygen (mg/l)	6.8	6.5
Biochemical Oxygen Demand (mg/l)	2.2	2.4
Chemical Oxygen Demand (mg/l)	6.0	
Ammonia Nitrogen (mg/l)	0.5	
Kjeldahl Nitrogen (mg/l)	1.2	
Total Dissolved Solids (mg/l)	130.2	
Total Coliform (MPN/100 ml)	46	17
Faecal Coliform (MPN/100 ml)	23	11
Sodium (mg/l)	14.0	
Potassium (mg/l)	4.0	
Magnesium (mg/l)	8.5	
TSS (mg/l)	55.4	
Flouride (mg/l)	0.05	
Arsenic (µg/l)		
Cadmium (µg/l)		
Copper (µg/l)		
Lead (µg/l)		
Chromium (µg/l)		
Nickel (µg/l)		
Zinc (µg/l)		
Iron (mg/l)		
Temperature ° C	20.0° C	15° C



Table – 10
WATER QUALITY OF MAWPDANG SPRING, MAWLAI

PARAMETER	APRIL 2003	OCT. 2003
рН	7.0	7.0
Conductivity (µmho/cm²)	210.5	180.5
Turbidity (NTU)	14.0	
Chloride (mg/l)	46.8	
Hardness (mg/l)	62.4	
Alkalinity (mg/l)	22.0	-
Nitrite (mg/l)	Nil	Nil
Nitrate (mg/l)	5.0	4.8
Sulphate (mg/l)	1.0	
Phosphate (mg/l)	Nil	
Calcium (mg/l)	50.1	
Dissolved Oxygen (mg/l)	5.4	4.3
Biochemical Oxygen Demand (mg/l)	2.8	3.0
Chemical Oxygen Demand (mg/l)	12.0	
Ammonia Nitrogen (mg/l)	0.5	
Kjeldahl Nitrogen (mg/l)	1.1	
Total Dissolved Solids (mg/l)	168.5	
Total Coliform (MPN/100 ml)	94	27
Faecal Coliform (MPN/100 ml)	79	11
Sodium (mg/l)	20.4	
Potassium (mg/l)	5.0	
Magnesium (mg/l)	12.3	
TSS (mg/l)	50.2	
Flouride (mg/l)	0.06	
Arsenic (µg/l)		
Cadmium (µg/l)		
Copper (µg/l)		
Lead (µg/l)		
Chromium (µg/l)		
Nickel (μg/l)		
Zinc (µg/l)		
Iron (mg/l)		
Temperature ° C	20° C	16° C



Table – 11
WATER QUALITY OF NARBONG WELL, BYRNIHAT

PARAMETER	APRIL 2003	OCT. 2003
pН	6.7	6.6
Conductivity (µmho/cm²)	153.0	165.5
Turbidity (NTU)	7.0	
Chloride (mg/l)	20.3	
Hardness (mg/l)	53.9	
Alkalinity (mg/l)	25.0	
Nitrite (mg/l)	0.02	0.03
Nitrate (mg/l)	1.2	2.0
Sulphate (mg/l)	1.1	2.0
Phosphate (mg/l)	Nil	
Calcium (mg/l)	38.4	
Dissolved Oxygen (mg/l)	6.2	5.4
Biochemical Oxygen Demand (mg/l)	1.4	1.8
Chemical Oxygen Demand (mg/l)	8.0	
Ammonia Nitrogen (mg/l)	0.4	
Kjeldahl Nitrogen (mg/l)	1.5	
Total Dissolved Solids (mg/l)	122.4	
Total Coliform (MPN/100 ml)	33	34
Faecal Coliform (MPN/100 ml)	17	17
Sodium (mg/l)	8.0	
Potassium (mg/l)	3.0	
Magnesium (mg/l)	15.5	
TSS (mg/l)	40.4	
Flouride (mg/l)	0.02	
Arsenic (µg/l)	Nil	
Cadmium (µg/l)	Nil	
Copper (µg/l)	Nil	
Lead (µg/l)	Nil	
Chromium (µg/l)	Nil	
Nickel (μg/l)	Nil	
Zinc (µg/l)	0.03	
Iron (mg/l)	0.8	
Temperature ° C	20.0° C	25° C



Table – 12WATER QUALITY OF WAH - U - DKHAR SPRING, SOHRA (CHERRAPUNJEE)

PARAMETER	APRIL 2003	OCT. 2003
pН	6.9	6.6
Conductivity (µmho/cm²)	120.5	135.5
Turbidity (NTU)	4.5	
Chloride (mg/l)	20.0	
Hardness (mg/l)	56.2	
Alkalinity (mg/l)	25.0	
Nitrite (mg/l)	Nil	Nil
Nitrate (mg/l)	2.0	2.8
Sulphate (mg/l)	Nil	2.0
Phosphate (mg/l)	Nil	
Calcium (mg/l)	46.2	
Dissolved Oxygen (mg/l)	6.3	6.0
Biochemical Oxygen Demand (mg/l)	1.3	2.0
Chemical Oxygen Demand (mg/l)	5.0	
Ammonia Nitrogen (mg/l)	0.5	
Kjeldahl Nitrogen (mg/l)	1.5	
Total Dissolved Solids (mg/l)	110.5	
Total Coliform (MPN/100 ml)	14	12
Faecal Coliform (MPN/100 ml)	11	9
Sodium (mg/l)	5.2	
Potassium (mg/l)	2.7	
Magnesium (mg/l)	10.0	
TSS (mg/l)	32.4	
Flouride (mg/l)	0.02	
Arsenic (µg/l)		
Cadmium (µg/l)		
Copper (µg/l)		
Lead (µg/l)		
Chromium (µg/l)		
Nickel (μg/l)		
Zinc (µg/l)		
Iron (mg/l)		
Temperature ° C	19.0	15.0



Table - 13
WATER QUALITY OF UMSAHEP SPRING

PARAMETER	APRIL 2003	OCT. 2003
рН	7.0	6.9
Conductivity (µmho/cm²)	140.5	135.8
Turbidity (NTU)	5.0	
Chloride (mg/l)	16.8	
Hardness (mg/l)	39.4	
Alkalinity (mg/l)	19.0	
Nitrite (mg/l)	Nil	Nil
Nitrate (mg/l)	2.5	3.2
Sulphate (mg/l)	1.0	
Phosphate (mg/l)	Nil	
Calcium (mg/l)	25.0	
Dissolved Oxygen (mg/l)	8.5	6.4
Biochemical Oxygen Demand (mg/l)	0.4	1.1
Chemical Oxygen Demand (mg/l)	6.0	
Ammonia Nitrogen (mg/l)	0.4	
Kjeldahl Nitrogen (mg/l)	39.4	
Total Dissolved Solids (mg/l)		88.5
Total Coliform (MPN/100 ml)	27	17
Faecal Coliform (MPN/100 ml)	13	11
Sodium (mg/l)	5.2	
Potassium		
Magnesium (mg/l)	14.4	
TSS (mg/l)	35.4	
Flouride (mg/l)	0.03	
Arsenic (µg/l)	Nil	
Cadmium (µg/l)	Nil	
Copper (µg/l)	Nil	
Lead (µg/l)	Nil	
Chromium (µg/l)	Nil	
Nickel (µg/l)	Nil	
Zinc (µg/l)	0.05	
Iron (mg/l)	0.1	
Temperature ° C	19.0	14.0



Table – 14

DAY TIME NOISE READINGS

- 60 -

			AMDIENT	NOISE MONITORED			
SL.				MBIENT NOISE ANDARDS B (A) Leq TIME READING TIME READING TIME READING TIME READING READ	ALI DAY		
NO.	PLACE	CATEGORY	STANDARDS	17 th OCTOBER, 2003		24 th OCTOBER, 2003	
			[dB (A) Leq]	TIME		TIME	READING [dB (A) Leq]
1.	Laitumkhrah (Lummawrie)	Residential	55	2:50P.M.	54.6	4:37 P.M.	51.2
2.	Lachumiere	Residential	55	3:15 P.M.	68.3	5:37 P.M.	81.9
3.	Jaiaw Main Road	Residential	55	3:55 P.M.	57.7	6:15 P.M.	74.4
4.	Upper Mawprem	Residential	55	4:24 P.M.	69.0	6:00 P.M.	82.1
5.	Lawsohtun	Residential	55	4:44 P.M.	57.6	2:50 P.M.	45.9
6.	Rilbong	Residential	55	5:00 P.M.	53.6	3:00 P.M.	59.3
7.	Lumpyngngad	Residential	55	5:30 P.M.	63.0	4:28 P.M.	59.0
8.	New Colony	Residential	55	6:10 P.M.	48.6	4:49 P.M.	64.7
9.	Laitumkhrah Main Road	Commercial	65	2:30 P.M.	76.1	4:45 P.M.	77.3
10.	Laitumkhrah Bazaar	Commercial	65	2:35 P.M.	70.3	4:42 P.M.	71.4
11.	Laitumkhrah Police Point	Commercial	65	3:00P.M.	70.7	4:50P.M.	81.7
12.	Dhankheti	Commercial	65	3:02 P.M.	79.2	5:05 P.M.	75.3
13.	Motphran	Commercial	65	4:05 P.M.	75.6	6:20 P.M.	73.5
14.	Paltan Bazaar	Commercial	65	4:15 P.M.	79.1	5:45 P.M.	70.9
15.	Mawprem Taxi Stand	Commercial	65	4:19 P.M.	65.0	6:03 P.M.	73.3
16.	Barapathar Bazaar	Commercial	65	4:25 P.M.	64.2	5:55 P.M.	70.1
17.	Jhalupara	Commercial	65	4:30 P.M.	74.9	5:50 P.M.	75.4
18.	Iew Dak (Laban)	Commercial	65	4:35 P.M.	67.0	2:30 P.M.	79.6
19.	Last Stop	Commercial	65	4:38 P.M.	66.0	2:35 P.M.	63.5
20.	Bishnupur	Commercial	65	4:41 P.M.	64.0	2:40 P.M.	74.6
21.	Malki Point	Commercial	65	5:20 P.M.	73.4	5:32 P.M.	81.5
22.	Nongthymmai Bus Stand	Commercial	65	5:45 P.M.	75.7	4:22 P.M.	71.2
23.	Saw Lad (Band Stand)	Commercial	65	5:50 P.M.	76.5	4:12 P.M.	87.1

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24.	Rynjah Bazaar	Commercial	65	6:00 P.M.	75.9	3:45 P.M.	62.9
25.	Polo Bazaar	Commercial	65	6:20 P.M.	72.1	3:23 P.M.	53.6
26.	Keating Road	Commercial	65	6:35 P.M.	61.2	7:05 P.M.	88.2
27.	Police Bazaar (Police Point)	Commercial	65	6:50 P.M.	75.6	6:40 P.M.	73.0
28.	Police Bazaar (R.B. Store)	Commercial	65	7:00 P.M.	75.1	6:45 P.M.	71.3
29.	Police Bazaar (Payal Cinema)	Commercial	65	7:05 P.M.	66.1	6:48 P.M.	70.2
30.	Jail Road	Commercial	65	7:25 P.M.	61.5	6:25 P.M.	82.7
31.	Nazareth Hospital	Silence Zone	50	2:55 P.M.	62.2	4:55 P.M.	54.3
32.	Don Bosco Square	Silence Zone	50	3:01 P.M.	82.0	4:44 P.M.	65.8
33.	Civil Hospital	Silence Zone	50	3:20 P.M.	70.7	3:10 P.M.	63.0
34.	K.J.P. Hospital	Silence Zone	50	4:00 P.M.	58.1	6:10 P.M.	64.6
35.	District Council	Silence Zone	50	4:16 P.M.	74.2	6:05 P.M.	78.3
36.	Mayurbanch (N.E.H.U)	Silence Zone	50	5:40 P.M.	52.5	4:20 P.M.	61.5
37.	Bethany Hospital	Silence Zone	50	6:05 P.M.	57.5	4:33 P.M.	64.0
38.	Ganesh Das Hospital	Silence Zone	50	6:22 P.M.	50.8	3:26 P.M.	52.2
39.	Main Secretariat	Silence Zone	50	6:33 P.M.	63.9	3:15 P.M.	72.0

Note: Ambient Noise Standards are taken from the Noise Pollution (Regulation & Control) Rules, 2000.



Table – 15 NIGHT TIME NOISE READINGS

			4.1.60.111.17		NOISE	MONITORED	
SL.		G. THE GOTT	AMBIENT NOISE	BEFORE DIWAL	ORE DIWALI	ON DIWA	LI DAY
NO.	PLACE	CATEGORY	STANDARDS	17 th C	OCTOBER, 2003	24 th OCTOBER, 2003	
			[dB (A) Leq]	TIME	READING [dB (A) Leq]	R, 2003 24th OCTOBER DING TIME Image: Control of the property of	READING [dB (A) Leq]
1.	Laitumkhrah (Lummawrie)	Residential	45	10:28P.M.	45.0	10:35 P.M.	53.1
2.	Lachumiere	Residential	45	10:10 P.M.	42.3	10:59 P.M.	59.5
3.	Jaiaw Main Road	Residential	45	12:15P.M.	40.1	11:26 P.M.	65.0
4.	Upper Mawprem	Residential	45	11:33 P.M.	43.2	11:12 P.M.	55.9
5.	Lawsohtun	Residential	45	11:51 P.M.	33.9	12:30 P.M.	38.9
6.	Rilbong	Residential	45	12:02 P.M.	35.1	12:15 P.M.	33.9
7.	Lumpyngngad	Residential	45	10:35 P.M.	40.5	10:30 P.M.	52.1
8.	New Colony	Residential	45	11:00 P.M.	38.5	10:45 P.M.	55.9
9.	Laitumkhrah Main Road	Commercial	65	10:24 P.M.	47.0	10:40 P.M.	63.7
10.	Laitumkhrah Bazaar	Commercial	65	10:25 P.M.	49.6	10:37 P.M.	62.5
11.	Laitumkhrah Police Point	Commercial	65	10:23 P.M.	47.5	10:43P.M.	64.1
12.	Dhankheti	Commercial	65	10:15 P.M.	78.3	10:53 P.M.	77.5
13.	Motphran	Commercial	65	11:22 P.M.	56.2	11:30P.M.	66.8
14.	Paltan Bazaar	Commercial	65	11:25 P.M.	44.1	11:05 P.M.	63.1
15.	Mawprem Taxi Stand	Commercial	65	11:29 P.M.	42.7	11:15 P.M.	66.0
16.	Barapathar Bazaar	Commercial	65	11:35 P.M.	52.8	11:10 P.M.	71.1
17.	Jhalupara	Commercial	65	11:38 P.M.	57.4	11:07 P.M.	68.1
18.	Iew Dak (Laban)	Commercial	65	11:44 P.M.	38.1	11:58 P.M.	77.1
19.	Last Stop	Commercial	65	11:57 P.M.	49.8	12:40 P.M.	56.9
20.	Bishnupur	Commercial	65	11:55 P.M.	42.7	12:20 P.M.	51.6
21.	Malki Point	Commercial	65	10:12 P.M.	60.5	10:55 P.M.	75.0
22.	Nongthymmai Bus Stand	Commercial	65	10:46 P.M.	75.0	10:09 P.M.	82.4



23.	Saw Lad (Band Stand)	Commercial	65	10:40 P.M.	55.5	10:00 P.M.	52.1
24.	Rynjah Bazaar	Commercial	65	10:51 P.M.	37.2	10:14 P.M.	58.0
25.	Polo Bazaar	Commercial	65	11:05 P.M.	41.0	12:48 P.M.	57.5
26.	Keating Road	Commercial	65	11:13 P.M.	50.5	11:50 P.M.	66.9
27.	Police Bazaar (Police Point)	Commercial	65	11:20 P.M.	46.6	11:42 P.M.	59.4
28.	Police Bazaar (R.B. Store)	Commercial	65	11:18 P.M.	43.0	11:33 P.M.	71.2
29.	Police Bazaar (Payal Cinema)	Commercial	65	11:17 P.M.	45.9	11:35 P.M.	71.7
30.	Jail Road	Commercial	65	11:15P.M.	40.9	11:38 P.M.	83.9
31.	Nazareth Hospital	Silence Zone	40	10:22 P.M.	45.2	10:40 P.M.	55.8
32.	Don Bosco Square	Silence Zone	40	10:18 P.M.	45.7	10:50 P.M.	76.4
33.	Civil Hospital	Silence Zone	40	11:40 P.M.	57.3	11:53 P.M.	61.7
34.	K.J.P. Hospital	Silence Zone	40	12:18 P.M.	38.9	11:25 P.M.	50.2
35.	District Council	Silence Zone	40	11:26 P.M.	43.9	11:20 P.M.	80.6
36.	Mayurbanch (N.E.H.U)	Silence Zone	40	10:45 P.M.	41.1	10:07 P.M.	71.6
37.	Bethany Hospital	Silence Zone	40	10:30 P.M.	49.9	10:27 P.M.	63.2
38.	Ganesh Das Hospital	Silence Zone	40	11:06 P.M.	39.3	12:50 P.M.	44.6
39.	Main Secretariat	Silence Zone	40	11:12 P.M.	52.3	11:45 P.M.	65.2

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 $\it Note:$ Ambient Noise Standards are taken from the Noise Pollution (Regulation & Control) Rules, 2000.

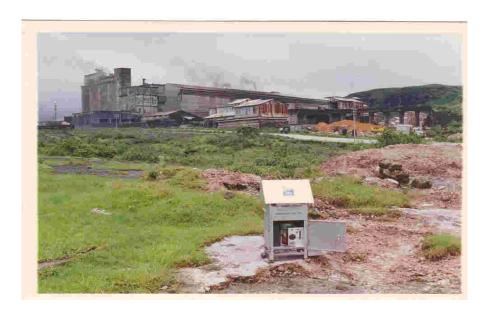


APPENDIX

SOME ACTIVITIES OF THE BOARD AT A GLANCE



Bio-Montoring at Ganol river in Tura, West Garo Hills District.



Monitoring of Ambient Air Quality around the Factory of Mawmluh Cherra Cements Ltd. at Mawmluh, Cherrapunjee.





Vehicular Emission Testing in Shillong during Road Safety Week as part of public awareness towards the need to control emission from Vehicles to reduce air pollution.



Monitoring of emission from the chimney of Industry to verify compliance with the prescribed Stack-Emission Standards.



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