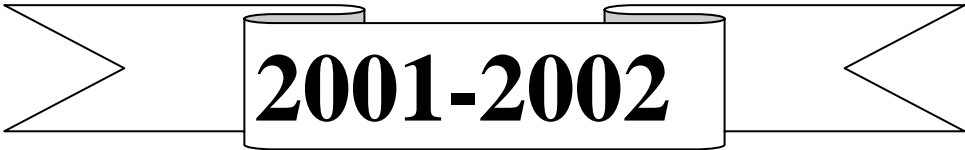


ANNUAL REPORT



2001-2002



**MEGHALAYA STATE POLLUTION CONTROL BOARD,
“ARDEN”, LUMPYNGNGAD,
SHILLONG – 793014**

ANNUAL REPORT

2001-2002



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“ARDEN”, LUMPYNGNGAD,
SHILLONG - 793014**

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ANNUAL REPORT FOR THE PERIOD 1st APRIL 2001 - 31st MARCH 2002.

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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. After the enactment of the Air (Prevention & Control of Pollution) Act, 1981, the enforcing responsibility of the Act was entrusted to the Board. The Board was later renamed as Meghalaya State Pollution Control Board in 1988. 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 Act and the Air Act, the Board is also enforcing the following Acts, Rules and Notifications: -

- 1) The Water (Prevention and Control of Pollution) Cess Act, 1977, and as amended by Amendment Act in 1991.
- 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 31-03-2002 against a sanctioned strength of 87 (Eighty Seven). The details of staff position are given in Annexure-I. The organization chart of the Board is given in Annexure-II.

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. 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.

2**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 dt.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 dt.the 24th March, 1999 & NO.PHE.161/83/205 dt.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 B.K.Choudhury continued as the Chairman and Shri. S.K.Blah continued as the Member Secretary of the Board during the financial year.

3

MEETINGS OF THE BOARD WITH MAJOR DECISIONS

During the year 2001-2002, the Board conducted the following Meetings: -

SL. NO.	MEETING NO.	DATE	VENUE	NO. OF MEMBERS ATTENDED THE MEETING
1.	Thirty fourth Meeting	31 st July 2001.	Office Chamber of the Chairman, MSPCB	13(Thirteen)
2.	Thirty fifth Meeting	29 th November, 2001.	Office Chamber of the Chairman, MSPCB	8(Eight)
3.	Thirty sixth Meeting	15 th March, 2002.	Office Chamber of the Chairman, MSPCB	8(Eight)

The following decisions were taken in the above Meetings: -

34th BOARD MEETING:

- The Board decided that appropriate actions against defaulting industries be initiated in accordance with the provision of the relevant Acts and Rules.
- The Board decided that defaulting Hospitals/Health Care Units be instructed to apply for authorization under Bio-Medical Wastes Rules, 1998 and in case of non-compliance action be initiated as per the provision in the Acts and Rules.

35th BOARD MEETING:

- The Board decided that Lime Kilns, Stone Crushers and Brick – Kilns, which were consented prior to the notification of siting criteria and which did not conform to siting requirements be asked to either shift to alternative sites that fulfill the siting criteria or adopt appropriate pollution control measures to meet the desired emission standards.

36th BOARD MEETING:

- The Board approved the proposal for categorization of industries on the basis of their pollution potential.
- The Board approved the proposal for constitution of an “Appellate Authority” under the Water (Prevention and Control of Pollution) Cess Act, 1977 and Rules made there under.



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 Committee for recruitment to various posts under the Board was last reconstituted on the 18th August 2000.

The compositions of the Consent Committee, the Purchase Committee and the Selection Committee are as given in Annexure-III(B), Annexure-III(C) and Annexure-III(D) respectively.

5

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 (NO_x) 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

MONTH & YEAR	PARAMETERS TESTED (MONTHLY AVERAGE)		
	SPM ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)
APRIL, 2001	73.0	BDL*	9.4
MAY, 2001	47.9	BDL	6.1
JUNE, 2001	43.2	BDL	5.1
JULY, 2001	39.9	BDL	2.4
AUGUST, 2001	33.8	BDL	2.2
SEPTEMBER, 2001	38.7	BDL	2.3
OCTOBER, 2001	39.7	BDL	1.9
NOVEMBER, 2001	47.2	BDL	7.5
DECEMBER, 2001	59.4	BDL	9.4
JANUARY, 2002	68.1	BDL	10.5
FEBRUARY, 2002	67.1	BDL	11.6
MARCH, 2002	81.1	BDL	13.2

* BDL: Below Detectable Limits.

STATION AT STATE TUBERCULOSIS BUILDING, POLICE BAZAR, SHILLONG.

MONTH & YEAR	PARAMETERS TESTED (MONTHLY AVERAGE)		
	SPM ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)
APRIL, 2001	129.4	9.3	17.6
MAY, 2001	76.0	2.1	6.6
JUNE, 2001	54.2	1.0	5.3
JULY, 2001	50.1	NA*	NA
AUGUST, 2001	52.2	1.7	3.5
SEPTEMBER, 2001	77.5	2.8	4.5
OCTOBER, 2001	91.1	4.0	6.9
NOVEMBER, 2001	130.5	6.5	9.1
DECEMBER, 2001	151.1	8.6	14.1
JANUARY, 2002	153.3	9.2	14.0
FEBRUARY, 2002	155.1	10.2	15.9
MARCH, 2002	160.4	10.3	15.5

* NA: Not Available

(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 monitorings: -

I. AMBIENT AIR QUALITY DATA.

SL.NO.	NAME OF THE INDUSTRY & LOCATION	SPM ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)
1.	M/s. Jaintia Alloys Pvt. Ltd, Byrnihat.			
	(a) Inside the Industry	502.6	20.8	217.7
	(b) Outside the Industry.	291.2	74.7	153.6
2.	M/s. Satyam Steels & Alloys Pvt. Ltd., Byrnihat.	661.2	8.2	79.4

II. STACK EMISSION CHARACTERISTICS.

SL.NO.	NAME OF THE INDUSTRY & LOCATION	SPM ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)
1.	HAAT Incinerators India Pvt. Ltd., Tigani Industrial Area, Anekal Taluk Bangalore. Location at the Military Hospital, Shillong.	141.6	-	BDL*

*BDL : Below Detectable 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 2001-2002, the number of vehicles tested at the Centre is as follows:-

PERIOD	TYPE OF VEHICLES	TOTAL NO. OF VEHICLES TESTED	NO. OF VEHICLES WITHIN LIMIT	PERCENTAGE NOT COMPLYING TO EMISSION STANDARDS
01.04.2001 to 31.03.2002.	Petrol-Driven LMV	1972	1315	33 %

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 has been monitoring the water quality of five water bodies namely, Ward's Lake, Umiam Lake, Umtrew River, Thadlaskein Lake and Kyrhuhkhla River on a quarterly basis since 1990. The analysis results obtained during 2001-2002 are shown in Tables: 1- 5 respectively.

It is observed from the above-mentioned tables, that River Umtrew and Thadlaskein Lake are comparatively less polluted than the other monitored water bodies. River Kyrhuhkhla which flows through the coal mining areas of Jaintia Hills District shows remarkably less pH values, which is clear indication of water pollution from coal mining activities. Ward's Lake and Umiam Lake receive most of the wastewaters and solid wastes generated in Shillong city. As such, the water quality of these water bodies shows the presence of high amount of total and faecal coliforms, indicating high organic and bacterial pollution load received from Shillong city.

During the year, the Central Pollution Control Board, Delhi sanctioned 8 (Eight) new monitoring stations under NWQM programme. These stations are for three important rivers of the state namely, Myntdu River, Ganol River, and Simsang River and five groundwater sources, 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. The Water quality analysis results obtained from these monitoring stations are given in Tables: 6 – 13

It is seen from the above tables that rivers Simsang and Myntdu show the presence of high amount of total and faecal coliform. Simsang and Myntdu rivers are important, as they are the major sources of drinking water supply to Williamnagar and Jowai towns respectively. The monitored spring and wells also show presence of total and faecal coliform indicating groundwater contamination.

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

The Board analysed 155 water samples received from various Govt. and Semi Govt. organizations of the state. The breakup of these water samples is as given below:

➤ Number of samples received from P.H.E. Deptt.	::	71
➤ Number of samples received from Private Parties.	::	11
➤ Number of samples received from other Govt. Deptts.	::	73

5.3 NOISE LEVEL MONITORING DURING DIWALI FESTIVAL.

Monitoring of noise levels was conducted in Shillong on the 12th & 13th November, 2001 before Diwali and on Diwali Day i.e. the 14th November, 2001 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 Honourable Supreme Court.

Day time noise levels all over Shillong before Diwali were found to be higher than the prescribed standards mainly because of vehicular traffic. On Diwali Day, the noise levels were observed to be even higher than on the previous two days in all locations.

During the nights before Diwali Day, the noise levels as observed in most locations were more than the prescribed standards mainly because of vehicular traffic. On Diwali day, the noise levels recorded were much higher throughout Shillong due to bursting of crackers.

Day time and Night time noise level readings recorded before and on Diwali Day are as given in Table –14 and Table –15 respectively.

6**PRESENT STATE OF THE ENVIRONMENT, ENVIRONMENTAL PROBLEMS
AND COUNTER MEASURES.**

Meghalaya, a hilly State located in the North-Eastern region of the country, covers an area of about 22,429 Sq.kms. The population of the State 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 due to the indiscriminate discharge or disposal of domestic sewage, trade effluents, urban solid wastes, bio-medical wastes; domestic fuel burning and vehicular exhaust emissions. 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 of the state. Mining activities are mostly in private hands and as such, coal and limestone are exploited in an unscientific and unplanned manner without any measures for reclamation of mined areas. Such mining activities are causing severe water pollution and environmental degradation in and around the mining areas.

As per information from the Directorate of Industries, Meghalaya there are about 3,500 industrial units/establishments in the State. Most of these are small and tiny units, which are non-polluting in nature. However, some 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 units, steel rolling mills, Ferro alloys manufacturing units, stone crushing units, auto-workshops and auto-servicing units. Most of the lime calcinations units are coal-fired traditional (pajwa) type, which are without hoods and chimneys 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 kiln structures, the type of coal used and the climatic conditions at the places where such kilns are dominantly located.

The Board has been regulating the discharge of effluents and air emissions from industries through the issuance of Consent to Establish / Operate under the Water Act & the Air Act. While issuing Consents, conditions are imposed with regard to the effluent and the emission standards to which industries have to comply with. Conditions are also stipulated for providing effluent treatment plants and/or installing air pollution control devices wherever found necessary. The Board periodically collects effluent samples for verification of compliance to the consent conditions by the industrial units. The industries are also instructed to ensure that pollution control systems, whenever necessary, are installed and commissioned within a stipulated time schedule. 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 2001-02, the Board received 119 (One hundred nineteen) applications for grant of “Consent to Establish” from small/medium industrial units under the Water (Prevention& Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981. Out of these, 70 (seventy) units were granted, “Consent to Establish”.

The names of industries/firms which applied for “Consent to Establish” during the year 2001-02 are 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 applied for the “Consent to Operate” and the ones which were granted the “Consent to Operate” are enlisted at Annexure-V & Annexure-VI respectively. Further, the industries which were granted Renewal of the Consent to Establish/and the Consent to Operate are shown in Annexure-VII and Annexure-VIII.



ENVIRONMENTAL RESEARCH

During the year 2001-2002, the Board initiated the following study project: -

Biomapping of some important perennial rivers of Meghalaya

Biomapping of rivers employs a biomonitoring method, the latest emerged tool for instant and accurate water quality monitoring. It maps a surface water body according to the pollution levels and classifies and zones them as per ecological conditions. The Board has undertaken the two-year study programme in collaboration with Central Pollution Control Board, Delhi. The study project has been sponsored by Central Pollution Control Board for an amount of Rs.2.59 Lakhs for biomapping of 10 (ten) prominent rivers in the State viz. Umkhrah, Umshyrpi, Umkhen, Umiam-Mawphlang, Nongstoin, Kynshi, Myntdu, Lubha, Umngot and Simsang.



ENVIRONMENTAL TRAINING

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 officials, who attended the training programmes during the year, is given in Annexure-IX.



ENVIRONMENTAL AWARENESS AND PUBLIC PARTICIPATION

During the year, a financial assistance of Rs.5, 000/- (Rupees five thousand) only was granted to the Indian Society of Analytical Scientists, Shillong Chapter for organizing Environmental Awareness Programme on the occasion of World Environment Day, 2001. Another financial assistance of Rs.5, 000/- (Rupees five thousand) only was granted to Shillong College Academic Society for organizing Environmental Awareness Programme for School and College students in celebration of the World Environment Day, 2001.

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.

10

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".

11

PROSECUTION AND CONVICTIONS FOR ENVIRONMENTAL CONTROL

During the year, no prosecutions were launched against any industries/firms for Non-compliance of the standards.

11.1 CLOSURE OF INDUSTRIAL POLLUTING UNIT.

During the year, no Closure Notices were issued to any industries/firms.

12

FINANCE AND ACCOUNTS.

The receipts and expenditures of the Board for the financial year 2001-2002 are appended as Annexure-X (A) and X (B) respectively.

13

ANNEXURES

ANNEXURE-I

**STAFF POSITION OF THE MEGHALAYA STATE POLLUTION CONTROL BOARD
AS ON 31ST MARCH 2002**

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
5.	Finance & Accounts Officer	1	-	1
6.	Senior Accountant	1	1	-
7.	Establishment Officer	1	1	-
8.	Stenographer Grade II	1	1	-
9.	Statistical Assistant	1	1	-
10.	U.D.A.	4	2	2
11.	L.D.A.	7	1	6
12.	L.D.A cum Typist	5	4	1
13.	Typist	4	1	3
14.	Library Assistant	1	-	1
15.	Driver	6	4	2
16.	Duftry	1	1	-
17.	Handyman	1	-	1
18.	Peon / Mali / Plumber	14	8	6
19.	Chowkidar	3	2	1
TECHNICAL STAFF				
1.	Environmental Engineer	2	2	-
2.	Asstt.Environmental Engg.	4	3	1
3.	Junior Environmental Engineer	1	1	-
4.	Senior Draftsman	1	-	1
5.	Tracer	2	-	2
SCIENTIFIC STAFF				
1.	Scientist "C"	1	1	-
2.	Scientist "B"	3	2	1
3.	Scientific Assistant (Senior)	1	1	-
4.	Junior Scientific Asstt.	5	2	3
5.	Technical Assistant	2	1	1
6.	Junior Laboratory Asstt.	2	2	-
7.	Storekeeper	1	1	-
8.	Sample Collector	5	5	-
9.	Laboratory Attendant	2	2	-
TOTAL		87	50	37

ANNEXURE-III (A)

LIST OF MEMBERS FOR THE PERIOD 2001-2002.

- | | |
|---|----------|
| 1. Chairman
Meghalaya State Pollution Control Board. | Chairman |
| 2. Chief Engineer
Public Health Engineering, Meghalaya <i>or</i> his nominee | Member |
| 3. Director of Industries, Meghalaya <i>or</i> his nominee | Member |
| 4. Director of Health Services (Research, etc), Meghalaya <i>or</i> his nominee | Member |
| 5. Director, Urban affairs, Meghalaya <i>or</i> his nominee | Member |
| 6. Chief Conservator of Forests
(Social Forestry & Environment), Meghalaya <i>or</i> his nominee | Member |
| 7. Chief Executive Member, Khasi Hills District Council <i>or</i> his nominee | Member |
| 8. Chief Executive Member, Garo Hills District Council <i>or</i> his nominee | Member |
| 9. Chief Executive Member, Khasi Hills District Council <i>or</i> his nominee | Member |
| 10. Chairman, Shillong Municipal Board <i>or</i> his nominee | Member |
| 11. Chairman, Tura Municipal Board <i>or</i> his nominee | Member |
| 12. Managing Director,
Meghalaya Industrial Development Corporation <i>or</i> his nominee | Member |

- | | |
|--|------------------|
| 13. Managing Director,
Meghalaya Forest Development Corporation <i>or</i> his nominee | Member |
| 14. Dr. Philomot Passah, Professor, Deptt. Of Economics,
NEHU, “Mayurbhanj Complex”, Lawjynriew,
Shillong- 793014. | Member |
| 15. Shri.Garland Rumbai, “Treppale”, Jowai,
Jaintia Hills District. | Member |
| 16. Shri.David Kharsati,
C/o. Grazy Villa, Nongkhyriem, Nongthymmai,
Shillong – 793014. | Member |
| 17. Member Secretary,
Meghalaya State Pollution Control Board. | Member Secretary |

ANNEXURE- III (B)

MEMBERS OF THE CONSENT COMMITTEE FOR THE PERIOD 2001-2002.

- | | | |
|----|---|-----------------|
| 1 | Chairman
Meghalaya State Pollution Control Board. | Chairman |
| 2. | Director of Mineral Resources, Meghalaya. | Member |
| 3. | Joint Director (II), Urban Affairs, Meghalaya | Member |
| 4. | Deputy Director (Planning) Industries, Meghalaya. | Member |
| 5. | Senior Inspector of Boilers & Factories, Meghalaya. | Member |
| 6. | Officer on Special Duty,
Office of the Chief Conservator of Forests,
(Social Forestry, Environment), Meghalaya. | Member |
| 7. | Prof.R.S.Tripathi,
Department of Botany, NEHU. | Member |
| 8. | Member Secretary,
Meghalaya State Pollution control Board. | Member Convener |

ANNEXURE- III (C)

MEMBERS OF THE PURCHASE COMMITTEE DURING THE YEAR 2001-2002.

- | | | |
|---|---|----------|
| 1. Chairman, Meghalaya State Pollution Control Board | - | Chairman |
| 2. Director, Regional Sophisticated Instrumentation Centre,
Shillong | - | Member |
| 3. Chief Engineer, P.H.E., Meghalaya <i>or</i> his nominee | - | Member |
| 4. Director of Industries, Meghalaya | - | Member |
| 5. Senior Scientist (PP), Indian Council of Agricultural Research,
Umiam | - | Member |
| 6. Senior Accountant, Meghalaya State Pollution Control Board | - | Member |
| 7. Member Secretary, Meghalaya State Pollution Control Board | - | Convener |

ANNEXURE- III (D)

LIST OF MEMBERS OF THE SELECTION COMMITTEE

- | | |
|---|-----------|
| 1. Shri. G.P. Kharshandy
Project Engineer,
Meghalaya Govt. Construction Corporation, Shillong. | Chairman |
| 2. Shri. M.K. Choudhury
Zonal Officer,
Central Pollution Control Board
North Eastern Zonal Office, Shillong. | Member |
| 3. Under Secretary to the Govt. of Meghalaya,
P.H.E. Deptt. Shillong. | Member |
| 4. Establishment Officer,
Meghalaya State Pollution Control Board, Shillong. | Secretary |

ANNEXURE-IV (A)

**LIST OF INDUSTRIES WHICH APPLIED FOR CONSENT TO ESTABLISH DURING
2001-2002.**

1. M/s. Confinental Veneer & Saw Mill, Byrnihat, Ri Bhoi District.
2. M/s. M.Sangma Stone Crusher Unit, Baldam Giri, West Garo Hills.
3. M/s. Adhumik Megh. Steel (P) Ltd, Byrnihat, Ri Bhoi District.
4. M/s. Macil Projects (P) Ltd, Pather Kuchi, Khanapara, Ri Bhoi District.
5. M/s. Coal Fields (India) Pvt. Ltd, Tamulkuchi, Byrnihat, Ri Bhoi District.
6. M/s. Wahlang Lime Industry (B), Mawkisyiem, Cherrapunjee, East Khasi Hills District.
7. M/s. Wahlang Lime Industry (A), Mawkisyiem, Cherrapunjee, East Khasi Hills District.
8. M/s. P.M. Motor Workshop, Madanryting, Block-II, Shillong.
9. M/s. Optomax Calcium Calcينات (P) Ltd, Madanryting, Shillong.
10. M/s. Dynasty Motors (P) Ltd., N.L.Complex, Dhankheti Shillong.
11. M/s. Meghalaya Sova Ispat Alloys Ltd. EPIP, Byrnihat, Ri Bhoi District.
12. M/s. Fem Care Pharma Ltd, 15th Mile, G.S. Road, Byrnihat, Ri Bhoi District.
13. M/s. T. Kharchandy Lime Kiln, Mawsynram, East Khasi Hills District.
14. M/s. Meghalaya Carbide & Chemicals (P) Ltd., EPIP, Byrnihat, Ri Bhoi District.
15. M/s. Oswin Hospital & Research Centre, Lummawrie, Laitumkhrah, Shillong.
16. M/s. Khren Sing Stone Crusher, Puntung, Via Dawki, East Khasi Hills.
17. M/s. Brahm India (P) Ltd., EPIP, Byrnihat, Ri Bhoi District.
18. M/s. Market Kharpran Stone Crusher, Sohryngkham, East Khasi Hills District.
19. M/s. Rimonlang Kharpran Stone Crusher, Sohryngkham, East Khasi Hills District.
20. M/s. D. Wankhar Stone Crusher, Mawlyngat, East Khasi Hills District.
21. M/s. Meghalaya Minerals & Mines (P) Ltd., Lumshnong, Khliehriat, Jaintia Hills District.
22. M/s. Pascal Suchiang Stone Crusher, Mawkyndep, Killing, Ri Bhoi District.
23. M/s. Dameri Enterprise, Sohphoh, Jatap, East Khasi Hills District.
24. M/s. R.L.Flour Mills (P) Ltd., 16th Mile, Byrnihat, Ri Bhoi District.
25. M/s. Modern Offset, Wahthapbroo, Shillong -2.
26. M/s. Nongstoin Mining Co-operative Society, Ltd, Nongstoin, West Khasi Hills District.

27. M/s. Scorpio Printers, Mavis Dunn Road, Mawkhar, Shillong.
28. M/s. Teinamlang Pathaw, Mawlai Datbaki, Nongpathaw, Shillong – 8.
29. M/s. Ri-War Mihngi Stone Crusher Service, Siatbaken, Pynursla, East Khasi Hills District.
30. M/s. M.M. Enterprise, Pomshutia, Dawki, East Khasi Hills.
31. M/s. B.M. Enterprise, Wahlyngkhat, Pynursla, East Khasi Hills District.
32. M/s. Shree Rodha Creations (P) Ltd., Baridua, Byrnihat, Ri Bhoi District.
33. M/s. Khylllep Lime Industry, Mawlong, Ichamati, East Khasi Hills District.
34. M/s. Sierra Motors, New Tura, West Garo Hills.
35. M/s. Sonapani Mini Hydel Project (MeSEB), Lumjingshai, East Khasi Hills District.
36. M/s. Lakreh Mini Hydel Project (MeSEB), Jaintia Hills District.
37. M/s. O.L. Stone Crusher, 5th Mile, Upper Shillong.
38. M/s. Thum-Thum Spray & Brake Booth Cum Mixed Mate, Mawlai, Shillong.
39. M/s. Quality Lime Industry (A), Mawkisyiern, Cherrapunjee, East Khasi Hills District.
40. M/s. Quality Lime Industry (B), Mawkisyiern, Cherrapunjee, East Khasi Hills District.
41. M/s. Quality Lime Industry (C), Mawkisyiern, Cherrapunjee, East Khasi Hills District.
42. M/s. Sangma Enterprise, Saldopara, Sebribari, West Garo Hills District.
43. M/s. Ishaan Technology (P) Ltd., Byrnihat, Ri Bhoi District.
44. M/s. Auto House, Buddhist Temple Road, Polo, Shillong.
45. M/s. Meghalaya Gases Ltd., Byrnihat, Ri Bhoi District.
46. M/s. Maity Ingty Stone Crusher, Umden, Nongpoh, Ri Bhoi District.
47. M/s. Stone Crusher Machine, Yengoan, West Garo Hills.
48. M/s. Paras Nath Yadav Stone Crusher, Zero Point, Ri Bhoi District.
49. M/s. Stone Crusher Machine, Barjhora, West Garo Hills.
50. M/s. Good Luck Coal Exports – I, Berihopara, West Garo Hills.
51. M/s. Good Luck Coal Exports – II, Rockhampara, West Garo Hills.
52. M/s. Sesami Chemicals (P) Ltd. Barapani Industrial Estate, Ri Bhoi District.

53. M/s. Blah Black Stone Production, Khiem Mawphlang, East Khasi Hills.
54. M/s. Stone Crushing Unit, Sohryngkham, East Khasi Hills.
55. M/s. Maruti Yard, Sivar Rd., Shillong.
56. M/s. Cherub Vaturals (P) Ltd., Byrnihat, Ri Bhoi District.
57. M/s. Parth Yekzplast (P) Ltd., Polo, Shillong.
58. M/s. Kharhunai Rubber Processing Unit, Byrnihat, Ri Bhoi District.
59. M/s. Edwal Dkhar Stone Crusher, Maikhuli, Ri Bhoi District.
60. M/s. S.R.S. Brick Industry, Mukdangro, West Garo Hills.
61. M/s. B.S. Smelters, Byrnihat, Ri Bhoi District.
62. M/s. Barsa Brick Industry, Willliamnagar, East Garo Hills.
63. M/s. Mohan Steel Ltd., Byrnihat, Ri Bhoi District
64. M/s. Vishal Sam Cum Vaneer Mills (P) Ltd., Barapani Ind Area, Ri Bhoi District.
65. M/s. Megha Plast (P) Ltd., Byrnihat, Ri Bhoi District.
66. M/s. Donny Ryan Sangma, Tengal, Tura, West Garo Hills.
67. M/s. Reliance Telecom Ltd., Hotel Pegasus Crown, Police Bazar, Shillong.
68. M/s. Trinova Traders & Co., Umkhoi, Khyriem Syiem, East Khasi Hills.
69. M/s. Tyllilang Society, Marbisu, East Khasi Hills.
70. M/s. Byrni Steel (P) Ltd., Byrnihat, Ri Bhoi District.
71. M/s. O.K. Engineering Works (Auto), Nongthymmai, Shillong.
72. M/s. Marak Plastics, G.S. Road, Byrnihat, Ri Bhoi District.
73. M/s. Khasi Pnar Soaps (P) Ltd., Mawryngkneng, East Khasi Hills.
74. M/s. V.M. Modern Rice Mills, Barapani Industrial Estate, Ri Bhoi District.
75. M/s. Stone Crushing Mechanical, Jaiaw, Shillong – 2.
76. M/s. Sank Brick Field, Rajabala, West Garo Hills.
77. M/s. Synergy Composites (P) Ltd., Byrnihat, Ri Bhoi District.
78. M/s. Shree Radha Creations (P) Ltd., Khanapara, Ri Bhoi District.
79. M/s. Arjun Momin Coal Washery, Chokpot, South Garo Hills.

80. M/s. NEZONE Ltd., EPIP, Byrnihat, Ri Bhoi District.
81. M/s. Sunita Motors, Pohkseh, Shillong.
82. M/s. Megha Stone Crusher, Upper Baliyan, Byrnihat, Ri Bhoi District.
83. M/s. B.S.Bamboo Processing Unit, Mission Compound, East Khasi Hills.
84. M/s. Bamboo Stick Manufacturing Unit, Laitumkhrah, Shillong.
85. M/s. S.Synrem Lime Kiln, Lumshken, East Khasi Hills.
86. M/s. B.R. Workshop Cum Body Building Unit, Palam Mawlein, Ri Bhoi District.
87. M/s. Byrnihat Packaging, Byrnihat, Ri Bhoi District.
88. M/s. Godrej Sara Lee Ltd., Byrnihat, Ri Bhoi District.
89. M/s. ARLL Dairy Products, Mawnum, Nongpoh, Ri Bhoi District.
90. M/s. Eusibia Automobile, Kench's Trace, Shillong – 793004.
91. M/s. Lumshawshun (P) Ltd. (Shale Division), Nongtra, Shella, East Khasi Hills.
92. M/s. T.M.Motor Works, Jingkieng, Nongthymmai, Shillong. –14.
93. M/s. Lime Stone Kiln, Shella, East Khasi Hills.
94. M/s. Tariang Body Builders, Pohkseh, Nongthymmai
95. M/s. Sohtun Printing Press, Mawkasiang, East Khasi Hills.
96. M/s. Colortek (Megh) Pvt. Ltd., Byrnihat, Ri Bhoi District.
97. M/s. Tyre Rethreading, Rambrai, Nongstoin.
98. M/s. Eastern Bamboo (P) Ltd., Ri Bhoi District.
99. M/s. York Print (P) Ltd, Baridua, Ri Bhoi District.
100. M/s. M.Sohkhar Stone Crusher, Umbir, Ri Bhoi District.
101. M/s. York Print (P) Ltd., G.S.Road, Baridua, Ri Bhoi District.
102. M/s. DMG Packaging Industries, Rynjah, East Khasi Hills.
103. M/s. B. Khongwir Lime Products, Pynursla, East Khasi Hills.
104. M/s. M.Pde Stone Crusher, Nongpoh, Ri Bhoi District.
105. M/s. Bull Lyngdoh Stone Crusher, Nongpoh, Ri Bhoi District.
106. M/s. Pillar Nongkhaw Lime Factory, Laitsohpliah, East Khasi Hills.
107. M/s. Jaintia Nursing Home, Bapung, Jaintia Hills District.
108. M/s. Leather Tanning Ummulong, Jaintia Hills District.
109. M/s. P.Lynser Stone Crusher, Nongmynsai, Umroi, Ri Bhoi District.

- 110. M/s. A,N.S. Candles (P) Ltd., Khanapara, Ri Bhoi District.
- 111. M/s. Timpack (P) Ltd., Byrnihat, Ri Bhoi District.
- 112. M/s. D.Lyngkhoi Auto Workshop, Mission Compound, Shillong.
- 113. M/s. Meghalaya Ispat Ltd., Baridua, Khanapara, Ri Bhoi District.
- 114. M/s. Stone Quarry, Umeit, Bhoi Rymbong, Ri Bhoi District.
- 115. M/s. Trishul Hi Tech Industries, EPIP, Byrnihat, Ri Bhoi District.
- 116. M/s. Feto Industries, Khanapara Them Marwet, Ri Bhoi District.
- 117. M/s. Nonghulo Stone Crushing Unit, Sohmynting, Jaintia Hills District.
- 118. M/s. Kakarania Innovative Systems (P) Ltd., EPIP, Byrnihat, Ri Bhoi District.
- 119. M/s. Caste & Alloys (P) Ltd., Byrnihat, Ri Bhoi District.

ANNEXURE-IV (B)

**INDUSTRIES WHICH WERE GRANTED CONSENT TO ESTABLISH DURING
2001 - 2002.**

1. M/s. Eastern Petro Chemicals, Hira Market, Thane Rd., Police Bazar, Shillong.
2. M/s. Ramesh Lyngdoh Bakery, Them Marwei, Khanapara, Meghalaya.
3. M/s. K.K.Beverages (P) Ltd, Khanapara, Baridua, Ri Bhoi District.
4. M/s. Byrnihat Ispat (P) Ltd., 34, Lachumiere, Shillong – 1.
5. M/s. H.M.Cements Ltd., Upper Balian Village, Byrnihat, Ri Bhoi District.
6. M/s. J.G.Spice Ltd., EPIP, Byrnihat, Ri Bhoi District.
7. M/s. Mortex Smelters (P) Ltd., EPIP, Byrnihat, Ri Bhoi District.
8. M/s. A.T.O. Agro Industries Ltd., Byrnihat, Ri Bhoi District.
9. M/s. Anuradha Steel (P) Ltd, EPIP, Byrnihat, Ri Bhoi District.
10. M/s. N.R.Roller Flour Mills (P) Ltd., Them Mawet, Khanapara, Ri Bhoi District.
11. M/s. Raja Khongsit, Pomshutia, East Khasi Hills.
12. M/s. Belle Herbels, G.S.Road, Baridua, Ri Bhoi District.
13. M/s. Commercial Iron & Steel (P) Ltd., Athgoan, Guwahati.
14. M/s. Shyam Century Ferrous Ltd., Mawpon, Riango, West Khasi Hills.
15. M/s. Season R. Giri Bakery, Mawlai Kynton Massar, Shillong – 5.
16. M/s. King Aqua (P) Ltd., Umiam Industrial Area, Ri Bhoi District.
17. M/s. R.K.Motors, Lower Sohra, East Khasi Hills.
18. M/s. Lyngdoh Stone Crusher, Mawlali, Khyriem Syiem Ship, East Khasi Hills District.
19. M/s. Mark Squash & James Production, Nongsder, Umiam, Ri Bhoi District.
20. M/s. Cold Storage, Umsning, Ri Bhoi District.
21. M/s. Adhunik Megh Steel (P) Ltd., Byrnihat, Ri Bhoi District.
22. M/s. Sita Hydrated Lime Plan, Mission Compound, Shillong.
23. M/s. Shanborlang Bamon Lime Kiln, Khliehriat, Jowai.
24. M/s. P.L.Enterprise Steel Fabricaiton Cum Body Making, Mawblei, Madanryting, East KhasiHills.
25. M/s. R.N.B. Minerals & Chemicals (P) Ltd., Umiam Industrial Area, Ri Bhoi District.

26. M/s. D.Khongwir Lime Industry, Nongshken, Pynursla, East Khasi Hills District.
27. M/s. Trikuta Ferro Alloy (P) Ltd., Bishnupur, Shillong.
28. M/s. T.M. Bakery Unit, Mawtawar, Shillong- 8
29. M/s. Matiz Metals (P) Ld., Byrnihat, Ri Bhoi District.
30. M/s. Poly Packs Industries, Barapani, Ri Bhoi District.
31. M/s. Rapti Lamare Stone Crusher, Mawblei, Shillong.
32. M/s. Wahlang Lime Industry (B), Mawkisyiem, Cherrapunjee, East Khasi Hills.
33. M/s. Wahlang Lime Industry (A), Mawkisyiem, Cherrapunjee, East Khasi Hills.
34. M/s. P.M. Motor Workshop, Madanryting, Block – II, Shillong.
35. M/s. Dynasty Motors (P) Ltd., N.L.Complex, Dhankheti, Shillong.
36. M/s. Meghalaya Sova Ispat & Alloys Ltd., EPIP, Byrnihat, Ri Bhoi District.
37. M/s. Meghalaya Carbide & Chemicals (P) Ltd., EPIP, Byrnihat, Ri Bhoi District.
38. M/s. Khron Sing Stone Crusher, Pungtung, Dawki, East Khasi Hills.
39. M/s. Brahm India (P) Ltd., EPIP, Byrnihat, Ri Bhoi District.
40. M/s. Distorian Wankhar Stone Crusher, Mawlyngngad, East Khasi Hills.
41. M/s. Meghalaya Minerals & Mines (P) Ltd., Lumshnong, Khliehriat, Jaintia Hills District.
42. M/s. Pascal Suchiang Stone Crusher, Mawkyndep, Killing, Ri Bhoi District.
43. M/s. Dameri Enterprise, Sohphoh, Jatap, East Khasi Hills.
44. M/s. Modern Offset, Wahthapbroo, Shillong –2.
45. M/s. Scorpio Printers, Mawkhar, Shillong.
46. M/s. Teinamlang Pathaw, Mawlai Mawdatbaki, Nongpathaw, Shillong – 8.
47. M/s. Ri War Mihngi Stone Crusher Service, Siatbakon, Pynursla, East Khasi Hills.
48. M/s. B.M.Enterprise, Wahlyngkhat, Pynursla, East Khasi Hills.
49. M/s. Khylllep Lime Lime Industry, Mawlong, Ichamati, East Khasi Hills.
50. M/s. Sonapani Mini Hydrel Project (MeSEB), Lumjingshai, East Khasi Hills.

51. M/s. Lakreh Mini Hydel Project, Jaintia Hills District.
52. M/s. Quality Lime Industry (A), Mawkisyiern, Cherrapunjee, East Khasi Hills District.
53. M/s. Quality Lime Industry (B), Mawkisyiern, Cherrapunjee, East Khasi Hills District.
54. M/s. Quality Lime Industry (C), Mawkisyiern, Cherrapunjee, East Khasi Hills District.
55. M/s. Sangma Enterprise, Sobribari, West Garo Hills.
56. M/s. Trishul Hi Tech Industries, EPIP, Byrnihat, Ri Bhoi District.
57. M/s. Caste & Alloys (P) Ltd., Byrnihat, Ri Bhoi District.
58. M/s. Auto House, Buddhist Temple, Polo, Shillong.
59. M/s. Meghalaya Gases Ltd., Byrnihat, Ri Bhoi District.
60. M/s. Maiti Ingty Stone Crusher, Nongpoh, Ri Bhoi District.
61. M/s. Sesami Chemicals (P) Ltd., Barapani Industrial Estate, Ri Bhoi District.
62. M/s. Stone Crushing Unit, Sohryngkham, East Khasi Hills.
63. M/s. Tyllilang Society, Marbisu, East Khasi Hills.
64. M/s. Sank Brick Field Unit, Rajabala, West Garo Hills.
65. M/s. Synergy Composites (P) Ltd., Byrnihat, Ri Bhoi District.
66. M/s. Sunita Motors, Pohkse, Shillong.
67. M/s. Megh Stone Crusher, Upper Baliyan, Byrnihat, Ri Bhoi District.
68. M/s. Shree Radha Creations (P) Ltd., Khanapara, Ri Bhoi District.
69. M/s. Lum Mawshun (P) Ltd., (Shale Division), Shella, East Khasi Hills.
70. M/s. A.N.S. Candles (P) Ltd., Khanapara, Ri Bhoi District.

ANNEXURE-V

**LIST OF INDUSTRIES WHICH APPLIED FOR CONSENT TO OPERATE DURING
2001-2002.**

1. M/s. N.E.Bottling, 9th Mile, CRPF, 2nd Gate, G.S.Road, Byrnihat, Ri Bhoi District.
2. M/s. Megh Plastics (P) Ltd., Balian, Opp EPIP, Byrnihat, Ri Bhoi District

ANNEXURE-VI

**LIST OF INDUSTRIES WHICH WERE GRANTED CONSENT TO OPERATE DURING
2001-2002.**

1. M/s. Rani Motors, Sunny Hills, Garikhana, Shillong – 2.
2. M/s. Megha Industries & Agro, Tamulkuchi, Byrnihat, Ri Bhoi District.
3. M/s. Greystone Mine (P) Ltd., Byrnihat, Ri Bhoi District.
4. M/s. Shivani Ispat & Rolling Mill (P) Ltd., Tamulkuchi, Byrnihat, Ri Bhoi District.
5. M/s. Manti Soap & Chemicals, Umroi, Ri Bhoi District.
6. M/s. Pack & Bottled, 9th Mile, Baridua, Ri Bhoi District.
7. M/s. N.E.Bottling , 9th Mile, Upper CRPF, 2nd Gate, G.S.Road, Ri Bhoi District.
8. M/s. Iamon Servicing Centre, Lower Nongrim Hills, Shillong.
9. M/s. Belle Herbals, Baridua, Ri Bhoi District.
10. M/s. Megha Plastics (P) Ltd., EPIP, Byrnihat, Ri Bhoi District.

ANNEXURE-VII

**LIST OF INDUSTRIES WHICH WERE GRANTED RENEWAL OF CONSENT
TO ESTABLISH DURING 2001-2002.**

1. M/s. R.K.B. Cements (P) Ltd, Barapani Industrial Estate, Ri Bhoi District.
2. M/s. Lum Mawshun Mining Co., Shella, East Khasi Hills District.
3. M/s. Anderson Minerals (P) Ltd., Lalghat, Langrin Syiemhsip, West Khasi Hills.
4. M/s. Shree Sai Megha Alloys (P) Ltd., Byrnihat, Ri Bhoi District.
5. M/s. H.M. Cements (P) Ltd., Byrnihat, Ri Bhoi District.
6. M/s. Shri. Gregory Kharsati Enterprise, Cherrapunjee, East Khasi Hills.
7. M/s. Mansan W. Phira Fruit & Vegetable Processing, Mawkhar, Shillong – 2.
8. M/s. Flagen Distilleries & Bottlers (P) Ltd., EPIP, Byrnihat, Ri Bhoi District.
9. M/s. H.P.Massar Manufacturing & Confectionery, Mandiran Lane,
Upper Laban, Shillong.
10. M/s. Mithcell Diary, 'TRIO', Umsning, Ri Bhoi District.
11. M/s. T.Lartang Lime Kiln, Balat, West Khasi Hills.
12. M/s. S.N.T. Automobile Body Construction, Mawblei, Laitkor, East Khasi Hills.
13. M/s. Fazal Haque Crusher Machine, Dhap Giri, West Garo Hills.
14. M/s. Modern Offset, Wahthapbroo, Shillong –2.

ANNEXURE-VIII

**LIST OF INDUSTRIES, WHICH WERE GRANTED RENEWAL OF CONSENT TO
OPERATE DURING 2001-2002.**

1. M/s. Umiam Calcinates (P) Ltd., Bara Bazar, Shillong –2.
2. M/s. M.E.D.C., Lower Lachumiere, Shillong –1.
3. M/s. Jaintia Cements Ltd., New Hill, Jowai, Jaintia Hills.
4. M/s. Byrong Lime Stones & Dolomite Mines, Byrong, East Khasi Hills.
5. M/s. M.C.C.L., Mawmluh, Cherrapunjee, East Khasi Hills.
6. M/s. Wood's Garage, Laitumkhrah, Shillong – 3.
7. M/s. Woodland Nursing Home, Dhankheti, Shillong.
8. M/s. Eastylian Rynjah Bakery, Nongthymmai, Shillong –14.
9. M/s. Indian Oil Corporation Ltd., Barapani, Umiam, Ri Bhoi District.
10. M/s. Associated Beverages (P) Ltd., Byrnihat, Ri Bhoi District.
11. M/s. B.Kharmawphlang Bakery, Lower Nongrim Hills, Shillong –3.
12. M/s. Shankar Atta Chaki Mill, Bara Bazar, Shillong –1.
13. M/s. Mahabir Flour Mills, Lukier Road, Shillong – 2.
14. M/s. Nodrowell & Daughters & Confectioners, Dhankheti, Shillong – 14.
15. M/s. Bethesda Nursing Home, Kench's Trace, Bishnupur, Shillong – 14.
16. M/s. Bol's Bake, Mawprem, Shillong.
17. M/s. Rani Motors, Sunny Hills, Garikhana, Shillong – 2.
18. M/s. Kishondro Lime Kiln, Shella, East Khasi Hills.
19. M/s. Shree Sai Megha Alloys (P) Ltd., Byrnihat, Ri Bhoi District.
20. M/s. Pawan Ispat (P) Ltd., Byrnihat, Ri Bhoi District.
21. M/s. Byrnihat Oxygen (P) Ltd., Byrnihat, Ri Bhoi District.

22. M/s. MeSEB, Leska Project, Myntdu, Leska, Jaintia Hills.
23. M/s. L.E.Rynjah Bakery, Laban, Shillong.
24. M/s. L.Lyngdoh Lime & Chemicals, Lumshnong, Jaintia Hills District.
25. M/s. K.K Beverages (P) Ltd, Khanapara, Baridua, Ri Bhoi District.
26. M/s. K.Lyngdoh Automobile Workshop, Upper Shillong, East Khasi Hills.
27. M/s. Spring Side Auto Servicing Station, Spring Side, Nongthymmai, Shillong.
28. M/s. Myllemngap Auto Engg, Kench's Trace, Madan Laban, Shillong - 14.
29. M/s. T.Passah, Mechanical Engg. Work, Mihmyntdu, Jowai, Jaintia Hills.
30. M/s. Associate Agro – Enterprise, Byrnihat, Ri Bhoi District.
31. M/s. Khyllap Lime Product, Mawlong, East Khasi Hills.
32. M/s. Wann Lime Ltd., Icahmati, East Khasi Hills.
33. M/s. Gee See Kaa, Stone Crusher, Madanryting, Shillong.
34. M/s. B.Lyngdoh Diesel Generator, LIC, Dhankheti, Shillong.
35. M/s. Modrina Auto Enterprise, Mawlai Nonglum, Shillong.
36. M/s. Shivani Ispat & Rolling Mills (P) Ltd., Tamulkuchi, Byrnihat, Ri Bhoi District.

ANNEXURE-IX

TRAININGS BETWEEN 1ST APRIL 2001 UPTO 31ST MARCH 2002.

SL. NO.	NAME & DESIGNATION	NAME & TRAINING	PLACE OF TRAINING	PERIOD OF TRAINING
1.	Smti. M.N.Diengdoh, Junior Scientific Asstt.	Water Quality Assessment and Water Analysis.	Nagpur.	9 th -20 th July, 2001
2.	Mr. Melvin Warbah, Junior Lab. Assistant.	Water Quality Assessment and Water Analysis.	Nagpur.	9 th -20 th July, 2001
3.	Mr.B.B.War, Asstt. Environmental Engineer.	Management of Hazardous Chemicals.	New Delhi	19 th -20 th September, 2001.
4.	Mr.S.K Blah, Member Secretary, Meghalaya Pollution Control Board.	Management of Hazardous Chemicals.	Lucknow	8 th -9 th November, 2001.
5.	Mr.S.C.Katiyar, Scientist 'C'.	Utilization of Sodar Meteorological data in Air Quality Management.	Shillong	8 th – 10 th November, 2001.
6.	Mr.J.H.Nengnong, Environmental Engineer.	Utilization of Sodar Meteorological data in Air Quality Management.	Shillong	8 th – 10 th November, 2001.
7.	Mr.B.B.War, Asstt. Environmental Engineer.	Utilization of Sodar Meteorological data in Air Quality Management.	Shillong	8 th – 10 th November, 2001.
8.	Mr. S.Swer, Scientific Asstt.	Utilization of Sodar Meteorological data in Air Quality Management.	Shillong	8 th – 10 th November, 2001.
9.	Mr.J.H.Nengnong, Environmental Engineer.	Environmental Management Capacity Building Technical Assistance – Concepts of Economic Theories for Environmental Management.	New Delhi	21 st – 25 th January, 2002.
10.	Mr.J. Kharshiing, Junior Lab. Assistant.	Environmental Management Capacity Building Technical Assistance – Concepts of Economic Theories for Environmental Management.	New Delhi	21 st – 25 th January, 2002.

ANNEXURE – X (A)

RECEIPTS AND PAYMENT ACCOUNT FOR THE YEAR 2001-2002
RECEIPTS A/C.

Opening Balances:

• Cash in hand	:	16128.26	
• Cash at bank:	:		
In Savings Bank Account			
With Indian Overseas Bank,			
Shillong,(3488)	:	(22123.36)	
Indian Overseas Bank,			
Shillong (6757)	:	4540911.18	
Indian Bank, Shillong	:	(14076.40)	
Bank of India,			
Shillong on:			
Account No. 544	:	(14902.50)	
Account No.1242	:	2079067.95	
Account No.1090	:	87281.00	
Account No.1987	:	3872393.44	
• In Fixed Deposit:			
With Indian Overseas Bank, Shillong	:	846797.00	
Bank of India,	:	<u>2732233.00</u>	1,41,23,709.57
• Grant received from:			
Ministry of Environment and Forests, Govt.	:	1248152.00	
of India,			
Department of Public Health Engineering,			
Govt. of Meghalaya.	:	7430000.00	
N.E. Pollution Board	:	<u>----</u>	86,78,152.00
• Grant in aid received from:			
Other Agencies	:		4,011.00
Fees	:	780050.00	
• Interest on Investments	:	331190.40	
• Miscellaneous receipts	:	161169.00	
• Miscellaneous advances	:	181790.00	
• Deposits	:	<u>502867.59</u>	19,57,066.99
TOTAL	(Rupees)		<u>2,47,62,939.56</u>

N.B: Receipts & Payments Accounts for the year 2001 -2002 are unaudited

ANNEXURE – X (B)

**RECEIPTS AND PAYMENT ACCOUNT FOR THE YEAR 2001-2002
PAYMENTS A/C.**

• Fixed Assets	:	612147.00	
• Other Assets:			
Scientific Instrument and Office Appliances	:	178635.00	
Tools and Plants	:	<u>7426.00</u>	7,98,208.00
• Revenue Expenditure:			
Administration:			
Pay & Allowances to Officers and Staff Contribution	:	5697978.00	
Contingent Expenditure	:	<u>619408.76</u>	63,17,386.76
• Board Laboratory	:		1,81,472.35
• Running and Maintenance of vehicles	:		1,11,163.21
Repairs and Maintenance	:		61,656.59
• Advances			2,80,450.00
• Deposits			5,91,557.00
• Grant Expenditure	:		6,94,887.95
Closing Balances:			
• Cash in hand	:	1034.26	
• Cash at Bank			
In Savings Bank Account:			
With Indian Overseas Bank, Shillong (3488)	:	(22123.36)	
Indian Overseas Bank, Shillong (6757)	:	4644714.93	
Indian Bank, Shillong	:	(14076.40)	
Bank of India, Shillong on:			
Account No.544	:	(14902.50)	
Account No. 1242	:	2680935.52	
Account No.1090	:	68661.00	
Account No 1987	:	2657440.60	
Vijaya Bank on :			
Account No. 7658	:	2145443.65	
• In Fixed Deposit Account:			
With Indian Overseas Bank, Shillong	:	2732233.00	
Bank of India, Shillong	:	<u>846797.00</u>	1,57,26,157.70
TOTAL (Rupees)			<u>2,47,62,939.56</u>

N.B: Receipts & Payments Accounts for the year 2001 - 2002 are unaudited

TABLES

Table – 1

WATER QUALITY OF UMIAM LAKE

SL. NO.	PARAMETER	JUNE 2001	SEP 2001	DEC 2001	MAR 2002
1.	pH	7.8	7.7	7.6	7.5
2.	Conductivity ($\mu\text{mho} / \text{cm}^2$)	215.5	220.2	225.5	250.4
3.	Turbidity (NTU)	13.5	18.0	-	3.0
4.	Total Dissolved Solids (mg / l)	150.4	155.4	-	-
5.	Chloride (mg / l)	20.5	20.0	-	-
6.	Hardness (mg / l)	70.0	80.0	-	-
7.	Alkalinity (mg / l)	25.0	14.0	-	-
8.	Calcium (mg / l)	50.0	55.0	-	-
9.	Sodium (mg / l)	4.4	4.0	-	-
10.	Magnesium (mg / l)	20.0	25.0	-	-
11.	Sulphate (mg / l)	3.8	4.0	-	-
12.	Phosphate (mg / l)	NIL	NIL	-	-
13.	Nitrogen (Nitrite & Nitrate) (mg / l)	4.2	1.0	2.0	6.8
14.	Ammonical Nitrogen (mg/l)	1.8	2.2	-	-
15.	Kjeldahl Nitrogen (mg / l)	4.2	4.7	-	-
16.	Dissolved Oxygen (mg / l)	9.0	9.5	9.2	8.0
17.	Biochemical Oxygen Demand (mg / l)	7.5	7.0	8.4	11.6
18.	Chemical Oxygen Demand (mg / l)	15.0	15.0	26.4	28.5
19.	Total Coliform (MPN / 100 ml)	2800	2500	3400	3400
20.	Faecal Coliform (MPN / 100 ml)	1700	1400	2000	2200

Table – 2**WATER QUALITY OF RIVER UMTREW**

SL. NO.	PARAMETER	JUNE 2001	SEP 2001	DEC 2001	MAR 2002
1.	pH	7.0	7.3	7.4	7.4
2.	Conductivity ($\mu\text{mho} / \text{cm}^2$)	215.4	200.5	218.2	240.5
3.	Turbidity (NTU)	18.0	25.4	-	-
4.	Total Dissolved Solids (mg / l)	160.2	154.4	-	-
5.	Chloride (mg / l)	10.0	8.0	-	-
6.	Hardness (mg / l)	60.0	62.0	-	-
7.	Alkalinity (mg / l)	35.0	34.0	-	-
8.	Calcium (mg / l)	40.0	40.0	-	-
9.	Sodium (mg / l)	5.0	7.3	-	-
10.	Magnesium (mg / l)	20.0	22.0	-	-
11.	Sulphate (mg / l)	2.0	1.6	-	-
12.	Phosphate (mg / l)	0.1	0.1	-	-
13.	Nitrogen (Nitrite & Nitrate) (mg / l)	2.0	2.0	3.5	14.0
14.	Ammonical Nitrogen (mg/l)	3.0	3.9	-	-
15.	Kjeldahl Nitrogen (mg / l)	6.4	7.2	-	-
16.	Dissolved Oxygen (mg / l)	8.0	9.0	9.0	8.0
17.	Biochemical Oxygen Demand (mg / l)	7.2	6.5	8.4	10.0
18.	Chemical Oxygen Demand (mg / l)	24.0	20.0	25.4	27.0
19.	Total Coliform (MPN / 100 ml)	180	170	350	540
20.	Faecal Coliform (MPN / 100 ml)	110	94	140	280

Table – 3**WATER QUALITY OF WARD'S LAKE**

SL. NO.	PARAMETER	JUNE 2001	SEP 2001	DEC 2001	MAR 2002
1.	pH	7.3	7.2	7.4	7.2
2.	Conductivity ($\mu\text{mho} / \text{cm}^2$)	220.5	208.5	250.0	300.5
3.	Turbidity (NTU)	15.0	20.0	-	-
4.	Total Dissolved Solids (mg / l)	160.5	155.2	-	-
5.	Chloride (mg / l)	12.0	17.0	-	-
6.	Hardness (mg / l)	42.0	48.0	-	-
7.	Alkalinity (mg / l)	46.0	38.0	-	-
8.	Calcium (mg / l)	30.0	32.0	-	-
9.	Sodium (mg / l)	5.4	4.2	-	-
10.	Magnesium (mg / l)	12.0	16.0	-	-
11.	Sulphate (mg / l)	1.0	2.0	-	-
12.	Phosphate (mg / l)	1.0	1.0	-	-
13.	Nitrogen (Nitrite & Nitrate) (mg / l)	2.1	2.0	2.5	1.6
14.	Ammonical Nitrogen (mg/l)	3.4	3.2	-	-
15.	Kjeldahl Nitrogen (mg / l)	7.0	6.8	-	-
16.	Dissolved Oxygen (mg / l)	6.0	6.7	8.0	7.4
17.	Biochemical Oxygen Demand (mg / l)	12.2	9.0	11.2	12.8
18.	Chemical Oxygen Demand (mg / l)	18.0	20.0	25.0	-
19.	Total Coliform (MPN / 100 ml)	2200	1800	4600	4900
20.	Faecal Coliform (MPN / 100 ml)	1400	1300	2300	2700

Table – 4**WATER QUALITY OF THADLASKEIN LAKE**

SL. NO.	PARAMETER	JUNE 2001	SEP 2001	DEC 2001	MAR 2002
1.	pH	7.5	7.7	7.5	7.6
2.	Conductivity ($\mu\text{mho} / \text{cm}^2$)	116.0	115.2	130.4	165.2
3.	Turbidity (NTU)	1.0	4.2	-	-
4.	Total Dissolved Solids (mg / l)	80.6	82.2	-	-
5.	Chloride (mg / l)	11.0	17.0	-	-
6.	Hardness (mg / l)	12.0	20.0	-	-
7.	Alkalinity (mg / l)	20.0	24.0	-	-
8.	Calcium (mg / l)	8.0	16.0	-	-
9.	Sodium (mg / l)	8.1	9.0	-	-
10.	Magnesium (mg / l)	4.0	4.0	-	-
11.	Sulphate (mg / l)	0.4	0.1	-	-
12.	Phosphate (mg / l)	NIL	NIL	-	-
13.	Nitrogen (Nitrite & Nitrate) (mg / l)	1.5	1.0	1.0	1.0
14.	Ammonical Nitrogen (mg/l)	1.0	1.0	-	-
15.	Kjeldahl Nitrogen (mg / l)	2.0	2.1	-	-
16.	Dissolved Oxygen (mg / l)	6.0	7.1	8.5	7.2
17.	Biochemical Oxygen Demand (mg / l)	8.5	5.2	7.0	8.8
18.	Chemical Oxygen Demand (mg / l)	13.0	10.0	16.0	14.0
19.	Total Coliform (MPN / 100 ml)	34	27	70	110
20.	Faecal Coliform (MPN / 100 ml)	22	17	33	49

Table – 5

WATER QUALITY OF KYRHUHKHLA LAKE

SL. NO.	PARAMETER	JUNE 2001	SEP 2001	DEC 2001	MAR 2002
1.	pH	3.1	3.2	3.2	3.0
2.	Conductivity ($\mu\text{mho} / \text{cm}^2$)	240.5	260.2	420.0	920.0
3.	Turbidity (NTU)	23.0	28.0	-	4.0
4.	Total Dissolved Solids (mg / l)	180.2	197.2	-	-
5.	Chloride (mg / l)	6.0	15.0	-	-
6.	Hardness (mg / l)	45.0	50.0	-	-
7.	Acidity (mg / l)	70.0	65.0	-	-
8.	Calcium (mg / l)	32.0	35.0	-	-
9.	Sodium (mg / l)	3.0	2.0	-	-
10.	Magnesium (mg / l)	13.0	15.0	-	-
11.	Sulphate (mg / l)	58.2	38.7	-	-
12.	Phosphate (mg / l)	0.5	NIL	-	-
13.	Nitrogen (Nitrite & Nitrate) (mg / l)	1.3	1.0	1.0	4.5
14.	Ammonical Nitrogen (mg/l)	1.7	1.0	-	-
15.	Kjeldahl Nitrogen (mg / l)	3.6	2.1	-	-
16.	Dissolved Oxygen (mg / l)	6.7	7.1	8.0	5.6
17.	Biochemical Oxygen Demand (mg / l)	8.8	8.5	9.0	9.5
18.	Chemical Oxygen Demand (mg / l)	15.0	17.0	19.8	20.0
19.	Total Coliform (MPN / 100 ml)	9	11	11	4
20.	Faecal Coliform (MPN / 100 ml)	NIL	8	6	NIL

Table – 6**WATER QUALITY OF MYNTDU RIVER, JOWAI**

SL. NO.	PARAMETER	JUNE 2001	SEP 2001	DEC 2001	MAR 2002
1.	pH	7.0	7.2	7.2	7.1
2.	Conductivity ($\mu\text{mho} / \text{cm}^2$)	95.4	132.4	150.4	160.4
3.	Turbidity (NTU)	3.0	7.0	-	-
4.	Total Dissolved Solids (mg / l)	70.5	98.4	-	-
5.	Chloride (mg / l)	7.0	13.0	-	-
6.	Hardness (mg / l)	10.0	34.0	-	-
7.	Alkalinity (mg / l)	24.0	26.0	-	-
8.	Calcium (mg / l)	6.0	22.0	-	-
9.	Sodium (mg / l)	1.1	1.0	-	-
10.	Magnesium (mg / l)	4.0	NIL	-	-
11.	Sulphate (mg / l)	NIL	2.0	-	-
12.	Phosphate (mg / l)	0.2	1.7	-	-
13.	Nitrogen (Nitrite & Nitrate) (mg / l)	1.5	3.5	2.0	8.4
14.	Ammonical Nitrogen (mg/l)	1.7	7.1	-	-
15.	Kjeldahl Nitrogen (mg / l)	3.6	1.4	-	-
16.	Dissolved Oxygen (mg / l)	7.2	9.0	7.5	8.0
17.	Biochemical Oxygen Demand (mg / l)	1.2	2400	1.8	2.1
18.	Chemical Oxygen Demand (mg / l)	4.0	1700	-	-
19.	Total Coliform (MPN / 100 ml)	2400	1.2	1600	1600
20.	Faecal Coliform (MPN / 100 ml)	1800	12.0	920	920

Table – 7**WATER QUALITY OF GANOL RIVER, TURA**

SL. NO.	PARAMETER	JUNE 2001	SEP 2001	DEC 2001	MAR 2002
1.	pH	7.7	7.9	7.8	7.7
2.	Conductivity ($\mu\text{mho} / \text{cm}^2$)	95.0	210.4	135.0	235.0
3.	Turbidity (NTU)	4.2	15.0	-	-
4.	Total Dissolved Solids (mg / l)	70.4	160.2	-	-
5.	Chloride (mg / l)	4.0	12.0	-	-
6.	Hardness (mg / l)	14.0	62.0	-	-
7.	Alkalinity (mg / l)	32.0	56.0	-	-
8.	Calcium (mg / l)	10.0	50.0	-	-
9.	Sodium (mg / l)	2.2	11.2	-	-
10.	Magnesium (mg / l)	4.0	0.2	-	-
11.	Sulphate (mg / l)	1.0	1.0	-	-
12.	Phosphate (mg / l)	0.8	2.0	-	-
13.	Nitrogen (Nitrite & Nitrate) (mg / l)	1.5	3.0	0.4	7.0
14.	Ammonical Nitrogen (mg/l)	1.0	7.7	-	-
15.	Kjeldahl Nitrogen (mg / l)	1.8	1.5	-	-
16.	Dissolved Oxygen (mg / l)	7.9	7.0	9.0	8.5
17.	Biochemical Oxygen Demand (mg / l)	1.2	21	1.8	2.1
18.	Chemical Oxygen Demand (mg / l)	5.0	13	-	-
19.	Total Coliform (MPN / 100 ml)	33	1.4	31.0	34.0
20.	Faecal Coliform (MPN / 100 ml)	22	12.0	23.0	21.0

Table – 8**WATER QUALITY OF SIMSANG RIVER, WILLIAMNAGAR**

SL. NO.	PARAMETER	JUNE 2001	SEP 2001	DEC 2001	MAR 2002
1.	pH	7.1	7.2	-	7.2
2.	Conductivity ($\mu\text{mho} / \text{cm}^2$)	153.0	120.4	135.5	-
3.	Turbidity (NTU)	6.5	8.0	-	-
4.	Total Dissolved Solids (mg / l)	105.0	80.0	-	-
5.	Chloride (mg / l)	12.0	13.0	-	-
6.	Hardness (mg / l)	22.0	16.0	-	-
7.	Alkalinity (mg / l)	30.0	26.0	-	-
8.	Calcium (mg / l)	16.0	12.0	-	-
9.	Sodium (mg / l)	1.8	1.0	-	-
10.	Magnesium (mg / l)	6.0	0.01	-	-
11.	Sulphate (mg / l)	1.0	1.2	-	-
12.	Phosphate (mg / l)	0.02	1.7	-	-
13.	Nitrogen (Nitrite & Nitrate) (mg / l)	1.5	3.7	1.8	-
14.	Ammonical Nitrogen (mg/l)	1.1	7.8	-	-
15.	Kjeldahl Nitrogen (mg / l)	2.4	1.8	-	-
16.	Dissolved Oxygen (mg / l)	8.1	8.0	9.5	8.2
17.	Biochemical Oxygen Demand (mg / l)	3.0	350	2.1	2.0
18.	Chemical Oxygen Demand (mg / l)	13.0	220	-	-
19.	Total Coliform (MPN / 100 ml)	1600	1.0	540	340
20.	Faecal Coliform (MPN / 100 ml)	920	12.0	350	220

Table – 9**WATER QUALITY OF POLICE BAZAR SPRING, SHILLONG**

SL. NO.	PARAMETER	DECEMBER 2001	MARCH 2002
1.	pH	6.5	6.2
2.	Conductivity (µmho / cm ²)	175.0	188.5
3.	Turbidity (NTU)	2.0	-
4.	Total Dissolved Solids (mg / l)	140.0	-
5.	Chloride (mg / l)	47.0	-
6.	Hardness (mg / l)	74.0	-
7.	Alkalinity (mg / l)	16.0	-
8.	Calcium (mg / l)	40.0	-
9.	Sodium (mg / l)	21.0	-
10.	Magnesium (mg / l)	34.0	-
11.	Sulphate (mg / l)	1.5	7.8
12.	Phosphate (mg / l)	NIL	-
13.	Nitrogen (Nitrite & Nitrate) (mg / l)	11.2	-
14.	Ammonical Nitrogen (mg/l)	1.7	7.5
15.	Kjeldahl Nitrogen (mg / l)	2.1	2.0
16.	Dissolved Oxygen (mg / l)	7.0	-
17.	Biochemical Oxygen Demand (mg / l)	2.4	33.0
18.	Chemical Oxygen Demand (mg / l)	10.0	20.0
19.	Total Coliform (MPN / 100 ml)	170	-
20.	Faecal Coliform (MPN / 100 ml)	110	-

Table – 10

WATER QUALITY OF MAWPDANG SPRING, MAWLAI

SL. NO.	PARAMETER	DECEMBER 2001	MARCH 2002
1.	pH	7.0	6.8
2.	Conductivity (µmho / cm ²)	190.0	220.0
3.	Turbidity (NTU)	5.2	-
4.	Total Dissolved Solids (mg / l)	142.4	-
5.	Chloride (mg / l)	59.0	-
6.	Hardness (mg / l)	86.0	-
7.	Alkalinity (mg / l)	18.0	-
8.	Calcium (mg / l)	55.0	-
9.	Sodium (mg / l)	28.0	-
10.	Magnesium (mg / l)	31.0	-
11.	Sulphate (mg / l)	1.5	2.0
12.	Phosphate (mg / l)	Nil	-
13.	Nitrogen (Nitrite & Nitrate) (mg / l)	8.0	-
14.	Ammonical Nitrogen (mg/l)	1.1	5.0
15.	Kjeldahl Nitrogen (mg / l)	1.8	2.8
16.	Dissolved Oxygen (mg / l)	6.8	-
17.	Biochemical Oxygen Demand (mg / l)	2.6	49.0
18.	Chemical Oxygen Demand (mg / l)	15.0	31.0
19.	Total Coliform (MPN / 100 ml)	21	-
20.	Faecal Coliform (MPN / 100 ml)	17	-

Table – 11**WATER QUALITY OF NARBONG WELL, BYRNIHAT.**

SL. NO.	PARAMETER	DECEMBER 2001	MARCH 2002
1.	pH	6.0	6.5
2.	Conductivity ($\mu\text{mho} / \text{cm}^2$)	115.0	130.5
3.	Turbidity (NTU)	1.5	-
4.	Total Dissolved Solids (mg / l)	88.5	-
5.	Chloride (mg / l)	17.0	-
6.	Hardness (mg / l)	48.0	-
7.	Alkalinity (mg / l)	16.0	-
8.	Calcium (mg / l)	35.0	-
9.	Sodium (mg / l)	10.0	-
10.	Magnesium (mg / l)	13.0	-
11.	Sulphate (mg / l)	NIL	11.0
12.	Phosphate (mg / l)	NIL	-
13.	Nitrogen (Nitrite & Nitrate) (mg / l)	1.0	-
14.	Ammonical Nitrogen (mg/l)	1.3	7.8
15.	Kjeldahl Nitrogen (mg / l)	2.0	1.4
16.	Dissolved Oxygen (mg / l)	6.0	-
17.	Biochemical Oxygen Demand (mg / l)	1.0	27
18.	Chemical Oxygen Demand (mg / l)	6.0	17
19.	Total Coliform (MPN / 100 ml)	17.0	-
20.	Faecal Coliform (MPN / 100 ml)	8.0	-

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

SL. NO.	PARAMETER	DECEMBER 2001	MARCH 2002
1.	pH	6.5	6.0
2.	Conductivity ($\mu\text{mho} / \text{cm}^2$)	158.4	160.2
3.	Turbidity (NTU)	2.6	-
4.	Total Dissolved Solids (mg / l)	120.2	-
5.	Chloride (mg / l)	17.0	-
6.	Hardness (mg / l)	60.0	-
7.	Alkalinity (mg / l)	20.0	-
8.	Calcium (mg / l)	44.0	-
9.	Sodium (mg / l)	5.0	-
10.	Magnesium (mg / l)	16.0	-
11.	Sulphate (mg / l)	NIL	3.5
12.	Phosphate (mg / l)	NIL	-
13.	Nitrogen (Nitrite & Nitrate) (mg / l)	2.9	-
14.	Ammonical Nitrogen (mg/l)	1.6	6.0
15.	Kjeldahl Nitrogen (mg / l)	2.0	1.6
16.	Dissolved Oxygen (mg / l)	7.2	-
17.	Biochemical Oxygen Demand (mg / l)	1.6	22.0
18.	Chemical Oxygen Demand (mg / l)	4.0	13.0
19.	Total Coliform (MPN / 100 ml)	14	-
20.	Faecal Coliform (MPN / 100 ml)	4	-

Table – 13**WATER QUALITY OF UMSAHEP SPRING.**

SL.NO.	PARAMETER	DECEMBER 2001	MARCH 2002
1.	pH	6.0	6.2
2.	Conductivity ($\mu\text{mho} / \text{cm}^2$)	95.5	120.4
3.	Turbidity (NTU)	1.0	---
4.	Total Dissolved Solids (mg / l)	75.2	---
5.	Chloride (mg / l)	16.0	---
6.	Hardness (mg / l)	36.0	---
7.	Acidity (mg / l)	16.0	---
8.	Calcium (mg / l)	23.0	---
9.	Sodium (mg / l)	6.0	---
10.	Magnesium (mg / l)	13.0	---
11.	Sulphate (mg / l)	1.2	---
12.	Phosphate (mg / l)	NIL	---
13.	Nitrogen (Nitrite & Nitrate) (mg / l)	1.0	1.8
14.	Ammonical Nitrogen (mg/l)	---	---
15.	Kjeldahl Nitrogen (mg / l)	1.0	---
16.	Dissolved Oxygen (mg / l)	9.4	6.8
17.	Biochemical Oxygen Demand (mg / l)	0.4	0.5
18.	Chemical Oxygen Demand (mg / l)	4.0	-
19.	Total Coliform (MPN / 100 ml)	17	26
20.	Faecal Coliform (MPN / 100 ml)	NIL	17

Table – 14

DAY TIME NOISE LEVEL READINGS

SL. NO.	PLACE	CATEGORY	NOISE MONITORED					
			BEFORE DIWALI				ON DIWALI DAY	
			12 th NOVEMBER, 2001		13 th NOVEMBER 2001		14 th NOVEMBER 2001	
			TIME	READING [dB (A) Leq]	TIME	READING [dB (A) Leq]	TIME	READING [dB (A) Leq]
1.	Jaiaw Main Road	Residential	3:50 PM	67.6	6:00 PM	64.5	6:10 PM	62.1
2.	Sunny Hill	Residential	4:02 PM	60.6	6:10 PM	60.4	-	-
3.	Lama Villa	Residential	4:07 PM	54.4	6:15 PM	56.2	8:25 PM	62.1
4.	Bishop's Falls	Residential	4:23 PM	50.7	6:25 PM	54.9	6:40 PM	74.0
5.	Upper Lachumiere	Residential	5:15 PM	50.6	7:10 PM	51.6	7:38 PM	83.7
6.	Madan Laban	Residential	6:00 PM	51.4	7:50 PM	51.4	7:20 PM	52.7
7.	Rilbong	Residential	6:22 PM	53.9	7:42 PM	53.9	7:00 PM	76.2
8.	Mawkhar Main Road	Residential	6:55 PM	56.3	8:30 PM	58.1	-	-
9.	Mawlai Phudmawri	Residential	7:28 PM	53.5	8:18 PM	52.2	8:43 PM	51.1
10.	Umsohsun (Ri Khasi Press)	Residential	-	-	8:38 PM	60.3	-	-
11.	YMCA, Mawkhar	Residential	-	-	-	-	6:20 PM	55.6
12.	Wahingdoh	Residential	-	-	-	-	9:30 PM	67.7
13.	Jingthangbriew Bridge	Residential	-	-	-	-	8:45 PM	56.7
14.	Upper Mawprem	Residential	-	-	-	-	6:38 PM	90.4
15.	Motinagar	Residential	2:15 PM	48.9	8:20 PM	49.0	5:30 PM	62.2
16.	Pohktieh	Residential	3:30 PM	53.0	8:05 PM	50.1	7:20 PM	53.8
17.	Nongrim Hills	Residential	3:35 PM	62.1	8:10 PM	58.5	7:25 PM	68.0
18.	Kharmalki	Residential	-	-	8:30 PM	49.7	7:45 PM	59.0

19.	Umpling Bridge	Residential	3:46 PM	57.0	6:50 PM	57.2	6:30 PM	60.6
20.	Golf Links (Dog Squad)	Residential	5:21 PM	53.6	6:15 PM	53.4	8:27 PM	66.6
21.	Mawprem Taxi Stand	Commercial	4:15 PM	56.6	6:21 PM	63.8	-	-
22.	Barapathar Bazar	Commercial	4:30 PM	65.6	6:31 PM	70.7	6:35 PM	75.4
23.	Iew Mawlong	Commercial	4:40 PM	78.0	6:45 PM	89.4	8:03 PM	94.0
24.	Police Bazar	Commercial	5:00 PM	78.8	6:55 PM	72.8	7:52 PM	102.7
25.	Jail Road Bazar	Commercial	5:05 PM	67.4	7:00 PM	62.4	8:10 PM	90.6
26.	Dreamland Cinema Hall	Commercial	-	-	-	-	8:00 PM	81.7
27.	Barik Police Point	Commercial	5:20 PM	72.1	7:13 PM	66.0	-	-
28.	Keating Road	Commercial	5:25 PM	67.3	7:18 PM	67.3	7:45 PM	91.5
29.	Iewdak, Laban	Commercial	5:45 PM	69.3	7:30 PM	69.3	7:15 PM	90.7
30.	Last Stop, Laban	Commercial	6:15 PM	66.0	7:35 PM	65.0	7:10 PM	71.0
31.	Bishnupur Bazar	Commercial	6:27 PM	66.1	7:45 PM	66.1	7:03 PM	70.5
32.	Paltan Bazar	Commercial	7:05 PM	71.7	8:00 PM	71.7	6:25 PM 9:35 PM	91.5 102.1
33.	Thangkhiew Petrol Pump, Mawlai	Commercial	7:18 PM	73.9	8:10 PM	73.9	8:35 PM	72.7
34.	Mawlai Mawdatbaki Bazar	Commercial	7:25 PM	68.6	8:15 PM	68.6	8:40 PM	69.7
35.	Fire Brigade	Commercial	2:30 PM	64.9	8:15 PM	63.3	7:30 PM	66.6
36.	Nongthymmai ,Saint Xavier's	Commercial	2:55 PM	69.8	7:10 PM	73.1	6:50 PM	75.0
37.	Saw Lad Band Stand	Commercial	3:00 PM	67.6	7:20 PM	73.4	7:00 PM	71.2
38.	Madanryting	Commercial	3:10 PM	68.2	7:30 PM	74.5	7:05 PM	73.4
39.	Happy Valley	Commercial	3:15 PM	63.9	7:40 PM	60.9	7:10 PM	69.0
40.	Rynjah Point	Commercial	3:42 PM	64.8	7:00 PM	64.7	6:40 PM	66.0
41.	Laitumkhrah Point	Commercial	4:05 PM	66.1	5:15 PM	64.7	8:00 PM	70.9

42.	Don Bosco Square	Commercial	4:27 PM	64.9	5:10 PM	64.1	7:55 PM	68.5
43.	Dhankheti	Commercial	4:38 PM	69.7	8:45 PM	72.0	7:40 PM	77.0
44.	Malki Point	Commercial	4:49 PM	66.7	8:50 PM	65.0	7:35 PM	67.0
45.	Polo Bazar	Commercial	5:14 PM	67.6	6:05 PM	66.7	8:15 PM	76.4
46.	Golf Club	Commercial	5:18 PM	63.9	6:10 PM	63.5	8:20 PM	63.0
47.	KJP Synod Hospital	Silence Zone	3:50 PM	67.6	6:05 PM	55.9	6:13 PM	53.5
48.	Civil Hospital	Silence Zone	5:35 PM	66.9	7:25 PM	66.9	7:30 PM	68.7
49.	Mayurbhanj (NEHU Campus)	Silence Zone	2:45 PM	48.3	-	-	-	-
50.	Nazareth Hospital	Silence Zone	4:15 PM	53.0	5:55 PM	52.6	8:05 PM	63.6
51.	Shillong Law College	Silence Zone	-	-	8:35 PM	55.0	7:50 PM	57.6
52.	District Council Court, Garikhana.	Silence Zone	-	-	-	-	6:50 PM	77.6

NOTE :- “ - ” indicates that reading was not taken.

Table – 15

NIGHT TIME NOISE LEVEL READINGS

SL. NO.	PLACE	CATEGORY	NOISE MONITORED					
			BEFORE DIWALI				ON DIWALI DAY	
			12 th NOVEMBER, 2001		13 th NOVEMBER 2001		14 th NOVEMBER 2001	
			TIME	READING [dB (A) Leq]	TIME	READING [dB (A) Leq]	TIME	READING [dB (A) Leq]
1.	Jaiaw Main Road	Residential	1:12 A.M	44.3	1:05 A.M.	45.7	1:55 A.M.	59.5
2.	Sunny Hill	Residential	12:15 A.M	50.9	12:55 A.M.	49.1	-	-
3.	Lama Villa	Residential	12:18 A.M	45.1	11:25 P.M.	44.7	10:50 P.M.	70.9
4.	Bishop's Falls	Residential	11:24 P.M	54.5	11:15 P.M.	41.0	10:58 P.M.	67.2
5.	Upper Lachumiere	Residential	10:15 P.M	52.5	10:15 P.M.	43.6	1:22 A.M.	52.7
6.	Madan Laban	Residential	11:00 P.M	47.1	10:58 P.M.	48.6	1:07 A.M.	46.3
7.	Rilbong	Residential	10:48 P.M	45.2	10:50 P.M.	64.3	11:43 P.M.	67.2
8.	Mawkhar Main Road	Residential	-	-	11:50 P.M.	51.4	-	-
9.	Mawlai Phudmawri	Residential	12:07 A.M	42.7	11:43 P.M.	39.9	12:32 A.M.	50.8
10.	Umsohsun (Ri Khasi Press)	Residential	-	-	12:45 A.M.	65.4	-	-
11.	YMCA, Mawkhar	Residential	-	-	-	-	10:33 P.M.	58.1
12.	Wahingdoh	Residential	-	-	-	-	1:37 A.M.	92.8
13.	Jingthangbriew Bridge	Residential	-	-	-	-	12:35 A.M.	60.8
14.	Upper Mawprem	Residential	-	-	-	-	11:05 P.M.	86.2
15.	Lawsohtun	Residential	12:31 A.M	38.9	12:20 A.M.	40.1	1:10 A.M.	41.4
16.	Lummawbah	Residential	12:50 A.M	39.7	12:05 A.M.	42.7	12:50 A.M.	51.6
17.	Motinagar	Residential	-	-	11:20 P.M.	48.2	1:45 A.M.	47.2
18.	Pohktieh	Residential	10:52 P.M	49.0	11:00 P.M.	49.0	11:05 A.M.	50.9

19.	Nongrim Hills	Residential	10:56 P.M	49.7	11:05 P.M.	49.9	11:10 P.M.	54.0
20.	Kharmalki	Residential	-	-	11:35 P.M.	49.2	11:45 P.M.	50.0
21.	Umpling Bridge	Residential	-	-	10:30 P.M.	49.7	10:25 P.M.	55.7
22.	Golf Links (Dog Squad)	Residential	-	-	12:55 A.M.	49.1	12:50 A.M.	62.9
23.	Mawprem Taxi Stand	Commercial	11:32 P.M	51.9	11:20 P.M.	53.2	-	-
24.	Barapathar Bazar	Commercial	11:15 P.M.	60.3	11:10 P.M.	68.3	11:10 P.M.	78.1
25.	Iew Mawlong	Commercial	11:37 P.M.	53.7	11:53 P.M.	58.7	12:15 A.M.	90.3
26.	Police Bazar	Commercial	11:42 P.M.	54.8	12:35 A.M.	57.7	11:00 P.M.	93.5
							1:30 A.M.	105.1
27.	Jail Road Bazar	Commercial	11:45 P.M.	52.3	12:38 A.M.	51.5	12:10 A.M.	73.2
28.	Dreamland Cinema Hall	Commercial	-	-	-	-	10:25 P.M.	98.1
29.	Barik Police Point	Commercial	10:23 P.M.	60.7	10:18 P.M.	59.7	-	-
30.	Keating Road	Commercial	11:48 P.M.	53.6	10:25 P.M.	77.4	11:52 P.M.	97.6
31.	Iewdak, Laban	Commercial	10:35 P.M.	57.3	10:37 P.M.	79.0	11:30 P.M.	65.2
32.	Last Stop, Laban	Commercial	10:42 P.M.	59.2	10:42 P.M.	59.8	11:35 P.M.	81.4
33.	Bishnupur Bazar	Commercial	10:54 P.M.	53.9	10:53 P.M.	50.6	11:45 P.M.	68.9
34.	Paltan Bazar	Commercial	11:35 P.M.	53.1	12:50 A.M.	57.5	1:45 A.M.	106.7
35.	Thangkhiew Petrol Pump, Mawlai	Commercial	11:58 P.M.	54.3	11:35 P.M.	61.1	12:25 A.M.	64.0
36.	Mawlai Mawdatbaki Bazar	Commercial	12:03 A.M.	48.1	11:40 P.M.	48.0	12:30 A.M.	52.4
37.	Fire Brigade	Commercial	-	-	11:10 P.M.	62.2	11:15 P.M.	60.9
38.	Nongthymmai ,Saint Xavier's	Commercial	10:30 P.M.	62.1	10:40 P.M.	62.9	10:40 P.M.	73.7
39.	Saw Lad Band Stand	Commercial	10:35 P.M.	63.5	10:45 P.M.	65.0	10:45 P.M.	72.4
40.	Madanryting	Commercial	10:38 P.M.	67.0	10:48 P.M.	65.3	10:50 P.M.	69.0
41.	Happy Valley	Commercial	10:43 P.M.	49.7	10:52 P.M.	49.3	10:55 P.M.	58.0

42.	Rynjah Point	Commercial	11:03 P.M.	49.5	10:35 P.M.	51.0	10:30 P.M.	56.2
43.	Laitumkhrach Point	Commercial	-	-	11:55 P.M.	53.9	12:10 A.M.	61.6
44.	Don Bosco Square	Commercial	-	-	11:50 P.M.	53.0	12:05 A.M.	60.5
45.	Dhankheti	Commercial	-	-	11:40 P.M.	65.8	11:40 P.M.	69.6
46.	Malki Point	Commercial	-	-	11:45 P.M.	70.2	11:30 P.M.	66.8
47.	Polo Bazar	Commercial	-	-	12:45 A.M.	51.9	12:35 A.M.	56.1
48.	Golf Club	Commercial	-	-	12:50 A.M.	49.2	12:45 A.M.	51.4
49.	KJP Synod Hospital	Silence Zone	1:07 A.M.	39.7	1:02 A.M.	40.1	1:52 A.M.	61.2
50.	Civil Hospital	Silence Zone	10:27 P.M.	52.6	10:30 P.M.	62.4	11:25 P.M.	72.3
51.	Mayurbhanj (NEHU Campus)	Silence Zone	-	-	-	-	-	-
52.	Nazareth Hospital	Silence Zone	-	-	12:15 A.M.	52.2	12:25 A.M.	51.1
53.	Shillong Law College	Silence Zone	-	-	11:38 P.M.	50.9	11:50 P.M.	52.1
54.	District Council Court, Garikhana.	Silence Zone	-	-	-	-	10:53 P.M.	78.1

NOTE : - “ - ” indicates that reading was not taken.

