

ANNUAL REPORT

2000-2001



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

ANNUAL REPORT

2000-2001



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SHILLONG - 793014**

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ANNUAL REPORT FOR THE PERIOD 1st APRIL 2000 - 31st MARCH 2001.

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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 also 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.

The Board has been functioning with 43 (Forty three) Staff as on 31-03-2002 against a sanctioned strength of 84 (Eighty four). 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 Divisional 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 the co-ordination 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, bio-assay 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 MINARS (Monitoring of Indian National Aquatic Resources System) programme.
- (vi) Ambient Air Quality Monitoring under National Ambient Air Quality Monitoring (NAAQM) programme.
- (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 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 Nov., 1983. The last reconstitution was notified in May 1998 vide Notification No. PHE 161/83/178 dt. the 21st May. 1998. However, the three new non-officials members were re-notified vide Notification No. PHE. 161/83/187 dt. the 24th March 1999 & NO. PHE. 161/83/205 dt. the 5th Jan. 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.Prasad was succeeded. Shri. B.K. Choudhury took over the charge of the post of Chairman on the 3rd May 2000 and continued in the post during the financial year.

Shri. S.K. Blah continued in the post of Member Secretary during the financial year.

3

MEETINGS OF THE BOARD WITH MAJOR DECISIONS

During the year 2000-2001, the Board conducted the following Meetings:

SL. NO.	MEETING NO.	DATE	VENUE	NO. OF MEMBERS ATTENDED THE MEETING
1.	Thirty tieth Meeting.	28 th April, 2000.	Office Chamber of the Chairman, MPCB	8(Eight)
2.	Thirty first Meeting.	25 th August, 2000.	Office Chamber of the Chairman, MPCB	8(Eight)
3.	Thirty second Meeting.	15 th December, 2000.	Office Chamber of the Chairman, MPCB	8(Eight)
4.	Thirty third Meeting.	26 th March, 2001.	Office Chamber of the Chairman, MPCB	7(Seven)

The following decisions were taken in the above Meeting: -

30th BOARD MEETING

- The Board approved the proposal for constitution of the following committees: -
 - Committee for controlling of vehicular pollution.
 - Committee on sewage & sanitation management.
- The Board delegated certain powers to Environment Engineers / Scientist 'C' in the matter of issuance of letters relating to Consent and Cess Management etc. except those concerning Administrative, financial and policy matters.
- The Board approved the constitution of a Selection Committee for filling up vacancies through direct and internal recruitment.
- The Board decided that Bio-mapping programme be implemented for the entire State.
- The Board ratified the appointment made in respect of fixed pay employees and banned further recruitment / appointment of Casual employees for works which are continuing in nature.

31st BOARD MEETING

1. The Board approved the fixation of Authorisation fees as required under Rule 8 (3) of the Bio-Medical Waste (Management and Handling) Rules.
2. The Board approved the engagement of Chartered Accountant for internal auditing and preparation its Balance Sheet.

32nd BOARD MEETING

1. The Board consented that the decisions taken by the Purchase Committee during the period from the expiry of its term until the date of its reconstitution be treated as valid in all respects.
2. The Board decided that a detailed report be sent to the Administrative Deptt. with a request for action in the recovery of Water Cess dues by deduction at source from the Grants -in - aid / Fund allocated to the defaulting organizations by their concerning administrative departments / authorities.

33rd BOARD MEETING

1. The Board emphasised for timely implementation of all central sponsored schemes/programmes as per schedule including furnishing of utilization certificates.
2. The Board approved the involvement of the centre for Environmental Science, NEHU in the study work viz. “Assessment of the water quality of River Umkhrach” to be undertaken out of the Fund obtained from Water cess reimbursement.



4 COMMITTEES CONSTITUTED BY THE BOARD AND THEIR ACTIVITIES

The Consent Committee of the Board is the same that was last constituted on 20th November, 1998. However the Purchase Committee was reconstituted by the Government vide Notification NO. PHE.96/95/7 dt. the 16th November, 2000. The compositions of the Consent Committee and the Purchase Committee are as given in Annexure-III (B) and Annexure-III(C) respectively.

During the year, the Board constituted vide Notification NO. MPCB/ESTT-29 (Pt-II)/2000-2001/169 Dated the 18th August, 2000, the Selection Committee for selection of suitable candidates for direct internal recruitment to some vacant posts. The composition of the Selection Committee is as given in Annexure – III (D).

5

MONITORING NETWORK FOR AIR, WATER AND SOIL QUALITY**5.1 MONITORING OF AIR QUALITY****(A) NATIONAL AMBIENT AIR QUALITY MONITORING**

There are 2(two) National Ambient Air Quality Monitoring (NAAQM) stations in the state and both are located in Shillong City. One Station is located inside the office building premises of the Board at Lumpyngngad, Shillong. The other Station which was originally located at State Central Library Building has been shifted to the State Tuberculosis Office building at Khyndailad, Police Bazar, Shillong. This Station has become operational since the 20th November, 2000.

Suspended Particulate Matter (SPM), Sulfur Dioxide (SO₂) and Oxides of Nitrogen (NO_x) are monitored from these Stations. Meteorological parameters viz. wind speed, wind direction are also recorded during the ambient air quality sampling. The data obtained from the two Stations are as given below: -

STATION AT BOARD'S OFFICE BUILDING PREMISES, LUMPYNGNGAD, SHILLONG

MONTH & YEAR	PARAMETERS TESTED		
	SPM ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)
APRIL, 2000	53.3	1.0	12.7
MAY, 2000	44.0	BDL**	12.1
JUNE, 2000	57.5	5.0	20.3
JULY, 2000	41.1	BDL	4.4
AUGUST, 2000	35.9	BDL	2.5
SEPTEMBER, 2000	34.6	NA*	NA
OCTOBER, 2000	34.3	NA	NA
NOVEMBER, 2000	33.2	NA	NA
DECEMBER, 2000	50.0	NA	NA
JANUARY, 2001	66.6	NA	NA
FEBRUARY, 2001	76.4	BDL	11.6
MARCH, 2001	79.6	BDL	13.0

** BDL: Below Detectable Limits.

* NA : Data not Available.

STATION AT STATE TUBERCULOSIS BUILDING, POLICE BAZAR, SHILLONG.

MONTH & YEAR	PARAMETERS TESTED		
	SPM ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)
NOVEMBER, 2000	99.1	NA*	NA
DECEMBER, 2000	115.2	NA	NA
JANUARY, 2001	123.5	NA	NA
FEBRUARY, 2001	117.0	10.1	15.8
MARCH, 2001	120.7	BDL**	9.4

** BDL: Below Detectable Limits.

* NA : Data not Available.

(B) AMBIENT AIR QUALITY DATA OF SOME INDUSTRIES

Ambient Air Quality Monitoring were carried out at the sites of some Industrial & Mining units and the data are as given below: -

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. Meghalaya Steel, Byrnihat.	57.3	-	-
2.	M/s. Sai Megha Alloys, Byrnihat.	101.5	-	-
3.	M/s. Meghalaya Minerals & Mines Ltd., Lumshnong: -			
	(a) Within Limestone Mining Area.	135.9	NIL	6.2
	(b) Lumshnong.	262.7	NIL	13.5
	(c) Within Limestone Mining Area.	326.4	NIL	14.0
	(d) Within Limestone Mining Area.	176.7	NIL	9.5
	(e) Within Limestone Mining Area.	167.5	NIL	7.5
	(f) Office premises.	175.2	NIL	13.9

(C) ASSESSMENT OF VEHICULAR POLLUTION

The main source of air pollution in the state is vehicular emissions because of the fact that the per capita vehicular density in the urban areas is very high. The Board has a Vehicle Emission-testing Centre in its office premises at Lumpyngngad, Shillong that has been functioning since January 1994. This Centre caters to the exhaust testing needs of 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 2000-2001, the number of petrol-driven vehicles tested at the Centre and the number of diesel-driven vehicles tested at Mawiong (Mawlai) are as given below:

PERIOD	TYPE OF VEHICLES	TOTAL NO. OF VEHICLES TESTED	NO. OF VEHICLES WITHIN LIMIT	PERCENTAGE NOT COMPLYING TO EMISSION STANDARDS
01.04.2000-31.03.2001.	Petrol-Driven	1834	1262	31 %
01.04.2000-28.02.2001.	Diesel-Driven	1487	464	69 %

5.1 MONITORING OF WATER QUALITY IN THE STATE.

One of the major objectives of the Meghalaya 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 is undertaking monitoring of major rivers/lakes and springs of the state under the following programmes:

5.2(A) MONITORING OF NATURAL WATER BODIES UNDER MINARS PROGRAMME.

Under the Monitoring of Indian National Aquatic Resources Programme (MINARS) 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 2000-2001 are as seen in Tables - 1,2,3,4,5,6 respectively.

From the above-mentioned tables, it is observed that River Umtrew and Thadlaskein Lake reflect the pristine status of water quality. River Kyrhuhkhla which flows through the coal mining areas of Jaintia Hills District show remarkably less pH values, which is indicative of the water pollution due to coal mining activities. Wards Lake and Umiam Lake receive most of the wastewater and solid wastes generated in the Shillong city. As such the water quality of these water bodies shows the presence of high amount of total and faecal coliforms, which is clear sign of organic and bacterial pollution.

5.2 (B) ANALYSIS OF WATER SAMPLES SENT TO THE BOARD'S LABORATORY

The Board analysed 569 water samples received from various Govt. and Semi Govt. organizations of the state. The break-up of these water samples is as given below: -

➤ Number of samples received from P.H.E. Deptt.	::	466
➤ Number of samples received from Private Parties.	::	14
➤ Number of samples received from other Govt. Deptt.	::	89



6 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 1991 census is 17,74,778. 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 3,500 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 2000-2001, the Board received 109 (One hundred 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, 53 (Fifty three) were granted Consent to Establish.

The names of industries/firms which applied for Consent to Establish during the year 2000-2001 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 the Consent to Operate are as mentioned at Annexure-VI. Further the industries, which were granted Renewal of the Consent to Establish /Operate are shown in Annexure-VII and Annexure-VIII.

7

ENVIRONMENTAL RESEARCH

During the year 2000-2001, the Board undertook / completed the following programmes :

(i) Noise level Survey in major Towns of the State

Noise levels in the urban centres of the State are continuously on increase due to increase in vehicular traffic and commercial activities. The Board monitored the noise levels at 10 (ten) locations in Jowai town and 26 (twenty six) locations in Shillong city. While the noise levels during both “Day” and “Night” times were recorded at Jowai, only day time noise level data were obtained for Shillong. The noise level data for these towns are provided in Tables 11 and 12. It is observed that noise levels in Jowai have never exceeded the National Level Noise Standards as per the designated use of the monitored area, whereas in Shillong noise levels are high and exceeded the National Standards at most of the residential, commercial and silence zones.

(ii) Environmental Status of Jowai Town:

The Board prepared a report entitled “Environmental Status of Jowai Town” based on primary and secondary data generated by it and those obtained from other agencies. The aspects of demography, climate, health, education, sanitary status, water supply, traffic, transportation and environmental status viz. ground water quality, surface water quality, ambient air quality, noise levels, waste water generations and pollution load, solid and Hospital waste management etc. are the part of the report. The report also incorporated recommendations to contain the increasing problem of environmental pollution in Jowai.

(iii) Water and Air Quality Monitoring in Specific Areas of the Sate:

Further, Smpling and analysis of selected water bodies and air monitoring in State capital and 5(five) District Headquarters were continued during the year and the data are as given in Tables 7 to 10.

8

ENVIRONMENTAL TRAINING

The Officers and staff of the Board attended a number of training courses, workshops and seminars, sponsored by the Ministry of Environment & Forests, Government of India, Ministry of Urban Development, Government of India, the Central Pollution Control Board and other agencies. The list of officials who attended the programmes during the year is given in Annexure – IX.



ENVIRONMENTAL AWARENESS AND PUBLIC PARTICIPATION

During the months of July to September 2000, the Board organizes Environmental Programmes in 11 (eleven) prominent High Schools in Shillong where the officials of the Board delivered lectures and talks on various topics concerning the environment and pollution control.

The Board's officials participated in a Cleaning Drive at the Office of the District Medical and Health Officer, East Khasi Hills District in observance of the World Health Day on the 7th April, 2000. The Inspector of Schools, East Khasi Hills District organized a District Level Science Exhibition in May 2000 and also a District level students Science Seminar in August 2000 on the topic "Health for all visions and realities". On both occasions, the Board was duly represented. Further, the Board's officials also took part in other awareness programmes organized by NGOs namely, the (Vincent Society for vocational training) and the (Christian Institute for the study of religion and society) held in the month of July and August respectively. The Board also granted a sanction of Rs. 1000 /- (Rupees One thousand) only to the All India Netaji Forum for organizing Mass Awareness in Shillong

During the year 2000-2001, the Board was able to conduct Mass Awareness Programmes in at least 10 (Ten) Schools in Shillong.

Officials of the Board also took part in a State Level Science and Environmental Fair cum Exhibition held in February – March and organized by the State Council of Science, Technology and Environment, Meghalaya.

The Board has been assisting the PHE Department, Municipal, etc in monitoring the water quality of the 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 adopts the standards prescribed by the Central Pollution Control Board and Ministry of Environment and Forests, Govt. 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 maintains the enforcement Schedule prescribed by the Central pollution Control Board and Ministry of Environment and Forests, Govt. of India in respect of 17 Category of Industries. However, it has its own enforcement schedule for other industries and it is specified at the time of granting of “Consent to Establish” and “Consent to Operate”.

11

PROSECUTION AND CONVICTIONS FOR ENVIRONMENTAL CONTROL

No Prosecutions were launched against any industry for non-Compliance of the Standards during the year 2000-2001.

11.1 CLOSURE OF INDUSTRIAL POLLUTING UNIT.

The Board issued a closure notice dated the 7th September, 2000 directing Shri. Raina A.Sangma to close down his Stone Crushing plant at Sunny Hill, Tura, West Garo Hills District.

12

FINANCE AND ACCOUNTS.

The annual accounts and expenditure details of the Board for the financial year 2000-2001 are appended as Annexure-X (A) and X (B).

13

ANNEXURE

ANNEXURE-I

**STAFF POSITION OF THE MEGHALAYA STATE POLLUTION CONTROL BOARD
AS ON 31ST MARCH 2001**

SL. NO.	NAME OF POST			
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 Staff	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	-	7
12.	L.D.A cum Typist	5	4	1
13.	Typist	4	-	4
14.	Library Assistant	1	-	1
15.	Driver	5	4	1
16.	Duftry	1	1	-
17.	Peon / Mali / Plumber	14	7	7
18.	Chowkidar	3	2	1
TECHNICAL STAFF				
1.	Environmental Engineer	2	2	-
2.	Asstt.Environmental Engg.	4	3	1
3.	Senior Draftsman	1	-	1
4.	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	2	3
9.	Laboratory Attendant	2	2	-
TOTAL		84	43	41

Org.Chart- 2000-2001 (See separate file name)

ANNEXURE-III (A)

LIST OF MEMBERS FOR THE PERIOD 2000-2001

- | | |
|---|----------|
| 1. Chairman
Meghalaya state Pollution Control Board, Shillong | 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,
Forest Development Corporation, Meghalaya
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

(Shri. David Kharsati was appointed as Non-Official Member of the Meghalaya State Pollution Control Board, in place of Shri. Jeffry Basan vide. Notification No. PHE/161/83/205 Dtd 5th January, 2001)

ANNEXURE- III (B)

MEMBERS OF THE CONSENT COMMITTEE FOR THE PERIOD 2000-2001.

- | | | |
|----|--|-----------------|
| 1 | Chairman
Meghalaya State Pollution Control Board, Shillong. | Chairman |
| 2. | Director, 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 2000-2001.

- | | |
|--|------------|
| 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)

**INDUSTRIES WHICH APPLIED FOR CONSENT TO ESTABLISH DURING
2000-2001.**

1. M/s. A.M.Tariang, Iamon Servicing Centre, Lower Nongrim Hills, Shillong.
2. M/s. North East Smelters Ltd., Barapani, Ri Bhoi District, Meghalaya.
3. M/s. Belle Herbals, Baridua, Ri Bhoi District.
4. M/s. S.N.T. Automobiles, Body Construction, Mawblei, Laitkor.
5. M/s. Thangkhiew Auto Workshop, 3rd Mile, Nongkseh, Shillong –5.
6. M/s. B.K.Saw Veneer Mill (P) Ltd., Byrnihat, G.S.Road, Ri Bhoi District.
7. M/s. M.P.Wood & Mill Industries (P) Ltd., Byrnihat, G.S.Road, Ri Bhoi District.
8. M/s. Byrni Hat Wood Industries (P) Ltd., Byrnihat, Ri Bhoi District.
9. M/s. J.Saw & Mill (P) Ltd., Byrnihat, Ri Bhoi District.
10. M/s. Bethany Medical Centre, Nongrim Hills, Shillong.
11. M/s. Commercial Iron & Steel Co. (P) Ltd., Byrnihat, Ri Bhoi District.
12. M/s. Ichamati Lime Enterprise, Mawlong Via. Cherra, East Khasi Hills District.
13. M/s. B.Marbaniang Lime Product, Mawsmi, Shella.
14. M/s. M.N. Saw cum Veneer Mill (P) Ltd., Riango, West Khasi Hills District.
15. M/s. Shillong Veneer & Saw Mill (P) Ltd., Mawngap, East Khasi Hills District.
16. M/s. LadriLyngdoh Saw cum Veneer Mill (P) Ltd., Riango, West Khasi Hills District.
17. M/s. Shakti Tobacco (P) Ltd., EPIP, Byrnihat, Ri Bhoi District.
18. M/s. Heavy Fuel Oil Based Power Project, EPIP, Byrnihat, Ri Bhoi District.
19. M/s. Mawshynrut Veneer (P) Ltd., Riango, West Khasi Hills District.
20. M/s. Riango Veneer (P) Ltd., Mawpon, Riango, West Khasi Hills District.
21. M/s. Shyam Century Ferrous Ltd., Mawpon, Riango, West Khasi Hills District.
22. M/s. Khasi Ispat (P) Ltd., Byrnihat, Ri Bhoi District
23. M/s. Geeta Ferro Alloys (P) Ltd., Near Industrial Estate, Byrnihat, Ri Bhoi District.
24. M/s. Bashai Motor Works, Umpling, Shillong – 6.
25. M/s. N.E.Bottling Plant, 9th Mile, Baridua Opp. CRPF, 2nd Gate, G.S.Road, RiBhoi District.
26. M/s. L.Jana Nongbet, Madanryting, Shillong.
27. M/s. Continental Veneer & Saw Mill, Byrnihat, Ri Bhoi District.
28. M/s. M.Enterprise, 9th Mile, Baridua, Khanapara, Ri Bhoi District.
29. M/s. Khan Tobacco (P) Ltd.,Byrnihat, Ri Bhoi District.

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30. M/s. S.D.S.Tobacco (P) Ltd., Byrnihat, Ri Bhoi District.
 31. M/s. Byrnihat Industries (P) Ltd., Byrnihat, Ri Bhoi District.
 32. M/s. R.A. Tobacco (P) Ltd., Byrnihat, Ri Bhoi District.
 33. M/s. Megha Plastic (P) Ltd., Baligan, Byrnihat, Ri Bhoi District.
 34. M/s. R.M.Lynser, Lad Krem, Mawpyllun, East Khasi Hills District.
 35. M/s. Hotel cum Shopping & Aredale , New Nongstoin, West Khasi Hills District.
 36. M/s. E.H.Associate Stone Crusher, Umphyrnai, East Khasi Hills District.
 37. M/s. The Earle Holiday Home, Oakland Road, Shillong-1.
 38. M/s. Mechila Bakery& Confectioners, Nongkseh, Upper Shillong.
 39. M/s. B. Khongwir Lime Kiln, Ichamati, Mawlong, East Khasi Hills District.
 40. M/s. S.S. Bakery, Mawlai Kynton Massar, Shillong.
 41. M/s. Khlainbor Kharmalki Auto Workshop, Nongrah, Lum Marboh, East Khasi Hills District.
 42. M/s. S.A.Kharshandy Enterprise, Lawjynriew, Nongthymmai, Shillong – 14.
 43. M/s. Yoti Lyngdoh Workshop, Kench's Trace, Laban.
 44. M/s. M.D.Fabrication & Electro Wicking Plant, Upper Malki, Shillong-1.
 45. M/s. Goenka Engineering Works, Keating Road, Shillong.
 46. M/s.Meghalaya Steel Fabrication (P) Ltd., Lama Villa, Shillong-2.
 47. M/s. King Aqua (P) Ltd., Nongrim Hills, Shillong-3.
 48. M/s. Hill View Multi Products (P) Ltd., Lama Villa, Shillong-2.
 49. M/s. Maithan Smelters Ltd., Byrnihat, Ri Bhoi District.
 50. M/s.Cherrapunjee Metals Ltd., EPIP, Byrnihat, Ri Bhoi District.
 51. M/s. S.Chyne Press, Jaiaw Lumsyntiew, Shillong-2.
 52. M/s. R.K.Motors, Saitsohpen, Sohra, East Khasi Hills District.
 53. M/s. K.Chyne Lime Kiln, Ichamati, Mawlong, East Khasi Hills District.
 54. M/s. Lyngdoh Stone Crusher, Mawlai Kyriem, East Khasi Hills District.
 55. M/s. Meghalaya Tea & Agro Industries, Kynshai, Rambrai, West Khasi Hills District.
 56. M/s. Mini Tea Processing Unit, Lumsophoh, Nongthymmai, Shillong.
 57. M/s. Laloo Stone Crusher, Pynursla, East Khasi Hills District.
 58. M/s. Shatabni Stone Crusher, Mynkree, Jaintia Hills District.
 59. M/s. Byrni Polymers (P) Ltd.,EPIP, Byrnihat, Ri Bhoi District.
 60. M/s. Inheritance Dry Cleaner, Arbuthnet Road, Laitumkhrah, Shillong.
 61. M/s. Martin Stone Chips, Tura, West Garo Hills District.

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62. M/s. Garin Jones Suting Stone Crusher, Sohmynting, Jowai, Jaintia Hills District.
 63. M/s. Ambeng Kok Stone Crusher Industry, Ganapara, Tura, West Garo Hills District.
 64. M/s. N.Synrem Lime Processing Unit, Mawlong, Cherra, East Khasi Hills District.
 65. M/s. Megha Bread, Rilbong, Shillong-13.
 66. M/s. N.E.Zone Fragrance (P) Ltd., Nongpoh, Ri Bhoi District.
 67. M/s. Mark's Squash & Jams Production, Nongsder, Umiam, Ri Bhoi District.
 68. M/s. M.Sangma Stone Crusher Unit, Beldam Giri, West Garo Hills District.
 69. M/s. Fazal Haque Crusher Machine, Dhap Giri, West Garo Hills District.
 70. M/s. Akhoy Kr Hajong Stone Crusher, BeteShing, West Garo Hills District.
 71. M/s. Swapam Debnath Stone Crusher, Halladigange, West Garo Hills District.
 72. M/s. Bipul Ch. Sangma Stone Crusher, Garo Badha, West Garo Hills District.
 73. M/s. Harmel A. Sangma Stone Crusher, Lower Chandmari, West Garo Hills District.
 74. M/s. K Hynniewta Mawmiehthied Lime, Lummawbah, Upper Shillong.
 75. M/s. Jim Conrad K.Sangma Car Servicing, Hawakhana, Tura, West Garo Hills District.
 76. M/s. Jaintia Coal Processor, Wapung, Jaintia Hills District.
 77. M/s.Stanley Kurbah Automobile Workshop, Mawlai Nongkwar, Shillong.
 78. M/s. Burakia Steel Alloys (P) Ltd., Byrnihat, Ri Bhoi District.
 79. M/s. Nehlang Lyngdoh Cold Storage, Umsning, Ri Bhoi District.
 80. M/s. Adhunik Megh Steel (P) Ltd., Byrnihat, Ri Bhoi District.
 81. M/s. S.C.L. Lyngkhai Tyre Rethreading Works, Mawlai Iewrynghep, Shillong-8.
 82. M/s. N.Kharing Bakery & Confectionery, Dhanketi, Shillong.
 83. M/s. Sita Hydrated Lime Plant, Jowai, Jaintia Hills District.
 84. M/s. K.Lyngkhai Industries, Demseiniong, WEEPCO, Shillong.
 85. M/s. S.Bamon Lime Kiln Unit, Khliehriat, Jowai.
 86. M/s. Power Auto Engg., Nongthymmai, Shillong.
 87. M/s. Fruit & Vegetables Processing (P) Ltd., Khanapara, Shillong.
 88. M/s. Springside, Nongthymmai, Shillong.
 89. M/s. B.B. Automobile, Mawlai Nonglum, Shillong-8.
 90. M/s. P.L. Enterprise Steel Fabrication Cum Body Making, Mawblei, Shillong-21.
 91. M/s. R.N.B. Minerals & Chemicals (P) Ltd., G.S.Road, Bara Bazar, Shillong.
 92. M/s. Directorate Printing & Stationery (Govt. Press) Shillong.
 93. M/s. Dr.(Ms) L.Laitflang, D.H.S.(S.S), Civil Hospital Shillong.
 94. M/s. Hunlang Food (P) Ltd, Dhanketi, Shillong.

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95. M/s. Agrindus Multi Purpose Society, Red Hill Road, Shillong.
 96. M/s. D.Khongwir Lime Industry, Pynursla, East Khasi Hills District.
 97. M/s. D.Kshiar Stone Crusher, Umling, Ri Bhoi District.
 98. M/s. Trikuta Ferro Alloys (P) Ltd., EPIP, Byrnihat, Ri Bhoi District.
 99. M/s. T.Mukhim Bakery, Mawtawar, Shillong-8.
 100. M/s. Dalina Khongwir Lime Industry, Nongshken, Pynursla, East Khasi Hills District.
 101. M/s.Rita Stone Crusher, Laitkor, East Khasi Hills District.
 102. M/s. K. Pine Forest Products, Byrnihat, Ri Bhoi District.
 103. M/s. Megh Pine Forest Products, Byrnihat, Ri Bhoi District.
 104. M/s. Mating Metals (P) Ltd., Byrnihat, Ri Bhoi District.
 105. M/s. S.M. Poly Packs Industries, Thana Road, Shillong-1.
 106. M/s. Nazareth Hospital, Shillong.
 107. M/s. Raphi Lamare, Stone Crusher, Lama Villa, Shillong-2.
 108. M/s. N.I.L. Industries Ltd., Byrnihat, Ri Bhoi District.
 109. M/s..J.K. (Megh) Cements Ltd., G.S.Road, Byrnihat, Ri Bhoi District.

ANNEXURE-IV (B)

**INDUSTRIES WHICH WERE GRANTED CONSENT TO ESTABLISH DURING
2000 - 2001.**

1. M/s. Ramesh Lyngdoh Bakery, Them Marwei, Khanapara, Meghalaya.
2. M/s. Byrnihat Ispat (P) Ltd., Byrnihat, Ri Bhoi District.
3. M/s. H.M.Cements Ltd., Balian Village, Byrnihat, Ri Bhoi District.
4. M/s. Pivest Land Meter Work, Mawlai T.S.S. Road, Shillong-8.
5. M/s. Pyngrope Meter Works, Mawlai Umjaiur, Shillong-8.
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. Umsohlang Handmade paper Society, Umsning, Ri Bhoi District.
9. M/s. Obestone Marak Multi Mobile Precision, Tura, West Garo Hills District.
10. M/s. Shivana Ispat & Rolling Mill (P) Ltd., Tamulkuchi, Byrnihat, RiBhoi District.
11. M/s. A.R.Wahlang Auto Workshop, Laitryngew, Sohra, East Khasi Hills District.
12. M/s. Sai Prakash Alloy (P) Ltd., Rangsakona, Byrnihat, Ri Bhoi District.
13. M/s. Pack & Bottled, 9th Mile Baridua, RiBhoi District.
14. M/s. Pynursla Lime Products, Wahpathaw (Urksew), East Khasi Hills District.
15. M/s. Shri. Trostar Lartang Lime Kiln, Litumsaw, Balat, West Khasi Hills District.
16. M/s. Raja hongsit, Pomshutia, East Khasi Hills District.
17. M/s. Terrence Wanjob Motor Creche, Lawjynriew, Nongthymmai, Shillong-14.
18. M/s. S.Dohling Lime Kiln, Sohra Syiemship, East Khasi Hills District.
19. M/s. M.V.Myρθthong Workshop, New Nongstoin, West Khasi Hills District.
20. M/s. L.Jana Nongbet, Madanrting, Shillong-14.
21. M/s. S.Shylla Moopyllait Syiar, Lad Mukhla, Jowai.
22. M/s. A.M.Tariang, Iamon Servicing Centre, Lower Nongrim Hills, Shillong.
23. M/s. S.N.R.Automobile & Body Construction, Mawblei, Laitkor, East Khasi Hills District.
24. M/s. Bethany Medical Centre, Nongrim Hills, Shillong.
25. M/s. Bashai Motor Works, Umpling Shillong.
26. M/s. Hotel Cum Shopping & Areade, New Nongstoin, West Khasi Hills District.
27. M/s. E.H.Associate Stone Crusher, Umphyrnai, East Khasi Hills District.
28. M/s. Mehciba Bakery & Confectionery, Kynton, Nongkseh, Upper Shillong, Shillong-5.
29. M/s. S.A.Kharshandi Enterprise, Lwjynriew, Nongthymmai, Shillong-14.
30. M/s. M.D.Fabrication & Electro Wickling Plant, Upper Malki, Khliehshnong, Shillong-1.
31. M/s. Goenka Engineering Works, Keating Road, Shillong.

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32. M/s. S.Chyne Press, Jaiaw Lum Syntiew, Shillong-2.
 33. M/s. K.Chyne Lime Kiln, Ichamati, Mawlong, Cherra, East Khasi Hills District.
 34. M/s. Mini Tea Processing unit, Spring Side, Jingkieng Nongthymmai.
 35. M/s. Shatabdi Stone Crusher, Jaintia Hills District.
 36. M/s. Megha (Bread) Bakery Unit, Rilbong, Shillong, East Khasi Hills District.
 37. M/s. Martin Stone Chips, K.A. Road, Tura, Chandmari, West Garo Hills District.
 38. M/s. Inheritance Dry Cleaners, Arbutnut Road, Laitumkhrah, Shillong-3.
 39. M/s.Fazal Haque Crusher Machine, Ton Gaon, Dhapgiri (Hollidaying), West Garo Hills District
 40. M/s. Stone Crusher Machine, Bipul Chandra Sangma, Gorobadha, West Garo Hills District.
 41. M/s. Harmal A.Sangma Stone Crusher Unit, Lower Chandmari, West Garo Hills District.
 42. M/s. Mawmihthied Lime, Lummawbah, Upper Shillong, East Khasi Hills District.
 43. M/s. Jaintia Coal Processor, wapung, Kongpung, Jaintia Hills District.
 44. M/s. Stanley Kurbah Automobile Workshop, Mawlai Nongkwar, Shillong-8.
 45. M/s. Sita Hydrated Lime Plant, Mission Compound Shillong.
 46. M/s. Shanbrlang Bamon Lime Kiln, Khliehriat, Jowai, Jaintia Hills District.
 47. M/s. Power Auto Engg., Nongkhyriem, Nongthymmai, Shilllong.
 48. M/s. Thabah Auto Engg., Works, Springside, Nongthymmai, Shilllong.
 49. M/s. P.L.Enterprise Steel Fabrication Cum Body Making, Mawblei, Madanrting, East Khasi Hills District.
 50. M/s. D.Kshiar Stone Crusher, Nongpoh, Ri Bhoi District.
 51. M/s. Meghalaya Gases Ltd., Byrnihat, Ri Bhoi District.
 52. M/s. Trikuta Ferro Alloy (P) Ltd., Ri Bhoi District.
 53. M/s. Stone Crusher Machine, Berighora, West Garo Hills District.

ANNEXURE-V

**LIST OF INDUSTRIES, WHICH APPLIED FOR CONSENT TO OPERATE DURING
2000-2001.**

1. M/s. New Millennium Industries (P) Ltd., Bawri Mansion, Dhanketi, Shillong-1.

ANNEXURE-VI

**LIST OF INDUSTRIES, WHICH WERE GRANTED CONSENT TO OPERATE DURING 2000-
2001.**

1. M/s. Meghalaya Calcimates & Chemicals, New Colony, Laitumkrah, Shillong-1.
2. M/s. Greystone Mine (P) Ltd., Byrnihat, Ri Bhoi District.

ANNEXURE-VII

**LIST OF INDUSTRIES WHICH WERE GRANTED RENEWAL OF CONSENT TO ESTABLISH
DURING 2000-2001.**

1. M/s. R.K.B.Cements (P) Ltd., Barapani Industrial Estate, Ri Bhoi District.
2. M/s. Meghalaya Fusion (P) Ltd., Barapani Industrial Area, Ri Bhoi District.
3. M/s. Lumshawshun Mining Corporation, Shella, East Khasi Hills District.
4. M/s. Rani Motors, Sunny Hill, Garikhana, Shillong-2.
5. M/s. Lawbyrwa Limestone Calcination Industry, Jaiaw Lansonalane, Shillong-2.
6. M/s. Shri. Sai Megha Alloys (P) Ltd., Byrnihat, Ri Bhoi District.
7. M/s. Pawan Ispat (P) Ltd., Byrnihat, Ri Bhoi District.
8. M/s. Mansan Phira Fruit & Vegetable Processing, Mawkhar, Shillong.
9. M/s. H.P.Massar Manufacturing & Confectionery, Mandiran Lane, Upper Laban, Shillong.
10. M/s. Servell Enterprise, Jingkieng, Nongrim Hills, Shillong-14.

ANNEXURE-VIII

LIST OF INDUSTRIES, WHICH WERE GRANTED RENEWAL OF CONSENT TO OPERATE DURING 2000-2001.

1. M/s. Umiam Calcinates (P) Ltd., Bara Bazar, Shillong –2.
2. M/s. Meghalaya Electronics Dev. Corporation Ltd., Lower Lachumiere, Shillong-1.
3. M/s. Jaintia Cements Ltd., New Hill, Jowai, Jaintia Hills District.
4. M/s. Byrong Limestones & Dolomites Mines, Byrong, East Khasi Hills District.
5. M/s. Mawmluh Cherra Cements Ltd., Cherrapunjee, East Khasi Hills District.
6. M/s. Meghalaya Lime & Minerals Factory, Byrnihat, Ri Bhoi District.
7. M/s. Bomber Cements (P) Ltd., Barapani, Ri Bhoi District.
8. M/s. Wood's Garage, Laitumkhrah, Shillong-3.
9. M/s. Woodland Nursing Home, Dhankheti, Shillong-1.
10. M/s. Indian Oil Corporation Ltd., Barapani, Umiam, Ri Bhoi District.
11. M/s. Associate Beverages (P) Ltd., Byrnihat, Ri Bhoi District.
12. M/s. B.Kharmawphlang Bakery, Lower Nongrim Hills, Shillong-3.
13. M/s. Mahabir Flour Mill, Lukier Road, Shillong-2.
14. M/s. Meghalaya Calcinates & Chemicals, New Colony, Laitumkhrah, Shillong-3.
15. M/s. Nedrowell & Daughters & Confectioners, Dhankheti, Shillong-1.
16. M/s. Meghalaya BmbooChips Ltd., Upland Road, Laitumkhrah, Shillong-3.
17. M/s. Bethesda Nursing Home, Bishnupur, Shillong-4.
18. M/s.M.M.D.C. Ltd., Mawsmat, Ri Bhoi District.
19. M/s. Megha Polycon Ltd., Byrnihat, Ri Bhoi District.
20. M/s. Laitmon Lime Works, Shella, East Khasi Hills District.
21. M/s. Kishondra Lime Kiln, Shella, East Khasi Hills District.
22. M/s. J.K.Enterprise, Shella, East Khasi Hills District.
23. M/s. W.Mawa Lime Kiln, Ichamati, East Khasi Hills District.
24. M/s. Byrnihat Oxygen (P) Ltd., Byrnihat, Ri Bhoi District.
25. M/s. Strongwell Khongsit Bakery, Pynursla, East Khasi Hills District.
26. M/s. Riwar Offset Press, Upper Shillong, East Khasi Hills District.
27. M/s. K.K.Beverages (P) Ltd, Baridua, Ri Bhoi District.
28. M/s. K.Lyngdoh Automobile Workshop, Upper Shillong, East Khasi Hills District.
29. M/s. Shivam Ispat & Alloys (P) Ltd., Byrnihat, Ri Bhoi District.

- 30. M/s. Tony Passah, Mechanical Engg. Works, Jowai, Jaintia Hills District.
- 31. M/s. Associate Agro Enterprise, Byrnihat, Ri Bhoi District.
- 32. M/s. Khylllep Lilme Products, Mawlong, East Khasi Hills District.
- 33. M/s. Wann Llime Ltd., Ichamati, East Khasi Hills District.
- 34. M/s. Gee Cee Kaa, Stone Crushing Unit, Madanryting, Shillong.

ANNEXURE – IXTRAININGS BETWEEN 1ST APRIL 2000 UPTO 31ST MARCH 2001.

SL. NO.	NAME & DESIGNATION	NAME & TRAINING	PLACE OF TRAINING	PERIOD OF TRAINING
1.	Mr.B.K Choudhury, Chairman Meghalaya Pollution Control Board.	Groundwater Quality Monitoring under Hydrology Project.	Bangalore	26 – 27 June, 2000.
2.	Mr. Melvin Warbah, Junior Lab. Assistant.	Biomonitoring of Water Quality	Kolkata	3 - 8 July, 2000
3.	Mr.Jonathan Kharshiing, Junior Lab. Assistant.	Biomonitoring of Water Quality	Kolkata	3 - 8 July, 2000
4.	Mr.S.K Blah, Member Secretary, Meghalaya Pollution Control Board.	Solid Waste Management	Bhopal	25-Aug-2000 - 30-Aug-2000.
5.	Mr.J. Kharshiing, Lab. Assistant.	Water Analysis.	Kolkata	01-Sep-2000 – 02-Sep-2000.
6.	Mr. B.K. Choudhury, Chairman, Meghalaya Pollution Control Board.	Environment Impact Assessment and Environmental Auditing.	Delhi	05-Sep-2000 – 06-Sep-2000.
7.	Mr.S.C.Katiyar, Scientist 'C'.	Water Quality Monitoring and surveillance.	Mysore	12-13 Dec 2000.
8.	Mr.S.K Blah, Member Secretary, Meghalaya Pollution Control Board.	New Development in Water Treatment.	Kolkata	09-Jan-2001 – 19-Jan-2001.
9.	Mr.J.H.Nengnong, Environmental Engg.	Management & Handling of Bio-Medical Wastes.	Guwahati, Assam.	29-30, Jan 2001.
10.	Mr.B.B.War, Asstt. Environmental Engg.	Management & Handling of Bio-Medical Wastes.	Guwahati, Assam.	29-30, Jan 2001.
11.	Mr.B.B.War, Asstt. Environmental Engg.	Ambient Air Quality Monitoring.	Delhi	12-17, March 2001.
12.	Mr. S.Swer, Scientific Asstt.	Ambient Air Quality Monitoring.	Delhi	12-17, March 2001.

ANNEXURE- X(A)

RECEIPTS AND PAYMENT ACCOUNT FOR THE YEAR 2000-2001
RECEIPTS A/C.

Opening Balances of :

• Cash in hand	:	30.26	
• Cash at bank	:		
In Savings bank Account			
With Indian Overseas Bank,			
Shillong,(3488)	:	(22123.36)	
Indian Overseas Bank,			
Shillong (6757)	:	1589577.96	
Indian Bank, Shillong	:	(14076.40)	
Bank of India,			
Shillong on:			
Account No. 544	:	103954.08	
Account No.1242	:	361174.95	
Account No.1090	:	85706.00	
Account No.1987	:	4504539.13	
• In Fixed Deposit:			
With Indian Overseas Bank, Shillong	:	758032.45	
Bank of Baroda,	:	<u>2156149.00</u>	95,22,964.07
• Grant received from:			
Ministry of Environment and Forests, Govt. :		3071152.00	
Of India,			
Department of Public Health Engineering,			
Govt. Of Meghalaya.	:	6085000.00	
N.E. Pollution Board	:	<u>1200000.00</u>	1,03,56,152.00
• Grant in aid received from:			
Other Agencies	:	----	
Fees	:	1026121.20	
• Interest on investments	:	641781.30	
• Miscellaneous Receipts	:	103273.00	
• Miscellaneous advances	:	620962.18	
• Deposits	:	<u>2182103.55</u>	45,74,241.23
TOTAL		(Rupees)	<u>2,44,53,357.30</u>

N.B: Receipts & Payments Accounts for the year 2000 -2001 are unaudited

ANNEXURE- X(B)

RECEIPTS AND PAYMENT ACCOUNT FOR THE YEAR 2000-2001
PAYMENTS A/C.

• Fixed Assets	:	142989.18	
• Other Assets:			
Scientific Instruments and Office Appliances	:	324877.00	
Tools and Plants	:	<u>12372.00</u>	4,80,238.18
• Revenue Expenditure:			
Administration:			
Pay & Allowances to Officers and Staff Contribution	:	4970388.00	
• Leave Salary and Pension	:	----	
• Contingent Expenditure	:	<u>469739.64</u>	54,40,127.64
• Board Laboratory	:		1,51,867.00
• Running and Maintenance of vehicles	:		81,565.33
Repairs and maintenance	:		3,644.00
• Advances	:		5,10,501.00
• Deposits	:		3,000.00
• Grant Expenditure	:		36,58,704.58
Closing 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 Account:			
With Indian Overseas Bank, Shillong	:	2732233.00	
Bank of Baroda, Shillong	:	<u>846797.00</u>	1,41,23,709.57
TOTAL		(Rupees)	<u>2,44,53,357.30</u>

N.B: Receipts & Payments Accounts for the year 2000 - 2001 are unaudited

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 TABLES

Table – 1

AVERAGE WATER QUALITY DATA OF THE MINARS STATIONS DURING 2000-2001.

Sl. No.	PARAMETERS	THADLA-SKEIN LAKE	UMTREW RIVER	UMIAM LAKE	WARD'S LAKE	KYRHUH-KHLA RIVER
1.	PH	8.0	7.5	7.5	7.3	3.2
2.	Conductivity ($\mu\text{mho}/\text{cm}^2$)	118.2	187.2	194.5	252.4	355.2
3.	Turbidity (NTU)	2.5	17.4	5.0	10.4	7.7
4.	Total Dissolved Solids (mg/l)	83.2	141.5	145.8	182.2	250.5
5.	Chloride (mg/l)	18.7	17.0	18.0	31.0	22.2
6.	Hardness (mg/l)	18.0	36.0	46.0	58.5	26.7
7.	Alkalinity (mg / l)	21.5	23.5	27.0	37.5	-
8.	Calcium (mg/l)	12.7	24.2	29.0	41.0	18.0
9.	Sodium (mg/l)	3.6	4.8	7.3	10.4	5.0
10.	Magnesium (mg/l)	5.3	11.8	17.0	17.5	11.8
11.	Sulphate (mg / l)	2.7	10.7	4.0	11.2	78.0
12.	Phosphate (mg/l)	0.25	2.2	0.3	1.0	0.12
13.	Nitrogen (Nitrite & Nitrate) (mg/l)	1.4	3.7	4.8	3.9	1.8
14.	Ammonical Nitrogen (mg/l)	0.86	1.0	1.4	2.25	0.59
15.	Kjeldahl Nitrogen (mg/l)	1.8	2.0	3.0	4.2	1.5
16.	Dissolved Oxygen (mg / l)	8.9	9.0	8.6	8.3	8.4
17.	Biochemical Oxygen Demand (mg / l)	7.1	7.9	10.0	8.8	7.6
18.	Chemical Oxygen Demand (mg / l)	11.8	24.6	23.1	21.0	19.5
19.	Total Coliform (MPN / 100 ml)	48	362	2950	2925	5
20.	Faecal Coliform (MPN/100 ml)	24	190	1665	1875	NIL

Table – 2**FROM THE 1st. APRIL 2000 UPTO THE 31st. MARCH 2001****WATER QUALITY OF UMIAM LAKE**

Sl. No.	PARAMETERS	JUNE 2000	SEP. 2000	DEC. 2000	MAR. 2001
1.	pH	7.8	7.9	7.0	7.5
2.	Conductivity ($\mu\text{mho}/\text{cm}^2$)	155.6	210.0	182.5	230.2
3.	Turbidity (NTU)	15.4	2.5	0.9	1.2
4.	Total Dissolved Solids (mg/l)	118.2	157.8	142.5	165.0
5.	Chloride (mg/l)	20.0	19.0	12.0	21.0
6.	Hardness (mg/l)	38.0	68.0	22.0	56.0
7.	Alkalinity (mg / l)	14.0	24.0	22.0	48.0
8.	Calcium (mg/l)	20.0	40.0	16.0	40.0
9.	Sodium (mg/l)	9.6	8.2	7.6	3.9
10.	Magnesium (mg/l)	18.0	28.0	6.0	16.0
11.	Sulphate (mg / l)	4.1	5.0	-	3.0
12.	Phosphate (mg/l)	0.3	0.3	-	NIL
13.	Nitrogen (Nitrite & Nitrate) (mg/l)	2.0	3.5	5.0	8.6
14.	Ammonical Nitrogen (mg/l)	1.7	1.1	1.5	1.3
15.	Kjeldahl Nitrogen (mg/l)	3.0	2.4	3.2	3.5
16.	Dissolved Oxygen (mg / l)	10.0	9.2	6.5	8.7
17.	Biochemical Oxygen Demand (mg / l)	7.6	9.0	11.0	12.5
18.	Chemical Oxygen Demand (mg / l)	16.5	22.0	27.0	27.0
19.	Total Coliform (MPN / 100 ml)	2400	2700	3200	3500
20.	Faecal Coliform (MPN/100 ml)	1400	1620	1840	1800

Table – 3

FROM THE 1ST. APRIL 2000 UPTO THE 31ST. MARCH 2001

WATER QUALITY OF UMTREW RIVER

Sl. No.	PARAMETERS	JUNE 2000	SEP. 2000	DEC. 2000	MAR. 2001
1.	pH	7.7	7.5	7.6	7.2
2.	Conductivity (µmho/cm ²)	152.8	180.4	190.2	225.2
3.	Turbidity (NTU)	25.6	21.6	10.5	12.0
4.	Total Dissolved Solids (mg/l)	110.5	140.5	145.2	170.0
5.	Chloride (mg/l)	16.0	18.0	13.0	21.0
6.	Hardness (mg/l)	24.0	42.0	24.0	54.0
7.	Alkalinity (mg / l)	14.0	18.0	22.0	40.0
8.	Calcium (mg/l)	14.0	30.0	18.0	35.0
9.	Sodium (mg/l)	9.6	2.2	3.2	3.2
4.2	Magnesium (mg/l)	10.0	12.0	6.0	19.0
11.	Sulphate (mg / l)	13.6	15.4	-	3.2
12.	Phosphate (mg/l)	2.2	NIL	-	-
13.	Nitrogen (Nitrite & Nitrate) (mg/l)	2.4	3.2	4.0	5.5
14.	Ammonical Nitrogen (mg/l)	1.1	1.7	0.6	0.8
15.	Kjeldahl Nitrogen (mg/l)	2.2	2.7	1.3	2.0
16.	Dissolved Oxygen (mg / l)	10.2	9.5	9.3	7.2
17.	Biochemical Oxygen Demand (mg / l)	5.8	8.0	9.0	9.0
18.	Chemical Oxygen Demand (mg / l)	12.5	20.0	27.0	39.0
19.	Total Coliform (MPN / 100 ml)	70	540	560	280
20.	Faecal Coliform (MPN/100 ml)	33	280	280	170

Table – 4

FROM THE 1st. APRIL 2000 UPTO THE 31st. MARCH 2001

WATER QUALITY OF WARD'S LAKE

Sl. No.	PARAMETERS	JUNE 2000	SEP. 2000	DEC. 2000	MAR. 2001
1.	pH	7.6	7.5	7.0	7.2
2.	Conductivity (µmho/cm ²)	210.0	218.8	285.2	295.0
3.	Turbidity (NTU)	26.2	7.6	4.5	3.5
4.	Total Dissolved Solids (mg/l)	153.5	160.4	200.0	215.2
5.	Chloride (mg/l)	24.0	34.0	22.0	44.0
6.	Hardness (mg/l)	56.0	68.0	44.0	66.0
7.	Alkalinity (mg / l)	18.0	20.0	34.0	78.0
8.	Calcium (mg/l)	40.0	48.0	28.0	48.0
9.	Sodium (mg/l)	18.0	6.1	8.3	9.3
4.2	Magnesium (mg/l)	16.0	20.0	16.0	18.0
11.	Sulphate (mg / l)	12.0	-	-	10.4
12.	Phosphate (mg/l)	1.0	-	-	NIL
13.	Nitrogen (Nitrite & Nitrate) (mg/l)	4.5	5.0	5.2	7.0
14.	Ammonical Nitrogen (mg/l)	2.8	2.8	1.2	2.2
15.	Kjeldahl Nitrogen (mg/l)	4.0	5.4	3.0	4.5
16.	Dissolved Oxygen (mg / l)	7.2	9.0	9.2	8.1
17.	Biochemical Oxygen Demand (mg / l)	11.5	11.0	11.5	12.0
18.	Chemical Oxygen Demand (mg / l)	16.0	21.0	26.0	21.0
19.	Total Coliform (MPN / 100 ml)	2200	2200	4800	2500
20.	Faecal Coliform (MPN/100 ml)	1400	1700	2700	1700

Table – 5**FROM THE 1ST. APRIL 2000 UPTO THE 31ST. MARCH 2001****WATER QUALITY OF THADLASKEIN LAKE**

Sl. No.	PARAMETERS	JUNE 2000	SEP. 2000	DEC. 2000	MAR. 2001
1.	Ph	7.9	8.1	8.2	8.0
2.	Conductivity ($\mu\text{mho}/\text{cm}^2$)	110.2	112.5	109.5	140.5
3.	Turbidity (NTU)	7.1	1.4	0.5	1.0
4.	Total Dissolved Solids (mg/l)	75.0	80.4	77.5	100.2
5.	Chloride (mg/l)	20.0	21.0	15.0	19.0
6.	Hardness (mg/l)	12.0	24.0	16.0	20.0
7.	Alkalinity (mg / l)	8.0	28.0	16.0	34.0
8.	Calcium (mg/l)	8.0	18.0	10.0	15.0
9.	Sodium (mg/l)	6.0	2.2	2.8	3.2
4.2	Magnesium (mg/l)	4.0	6.0	6.0	5.0
11.	Sulphate (mg / l)	2.2	-	-	3.2
12.	Phosphate (mg/l)	0.3	-	-	NIL
13.	Nitrogen (Nitrite & Nitrate) (mg/l)	0.7	1.0	1.5	2.2
14.	Ammonical Nitrogen (mg/l)	0.6	1.1	1.1	0.6
15.	Kjeldahl Nitrogen (mg/l)	1.3	2.2	2.2	1.5
16.	Dissolved Oxygen (mg / l)	10.0	8.4	8.6	8.7
17.	Biochemical Oxygen Demand (mg / l)	5.4	7.5	7.7	8.0
18.	Chemical Oxygen Demand (mg / l)	8.5	12.0	11.5	15.5
19.	Total Coliform (MPN / 100 ml)	22	49	43	79
20.	Faecal Coliform (MPN/100 ml)	13	23	27	33

Table – 6

FROM THE 1ST. APRIL 2000 UPTO THE 31ST. MARCH 2001

WATER QUALITY OF KYRHUHKHLA RIVER

Sl. No.	PARAMETERS	JUNE 2000	SEP. 2000	DEC. 2000	MAR. 2001
1.	pH	4.2	3.2	2.7	2.9
2.	Conductivity (µmho/cm ²)	285.5	290.2	305.0	540.0
3.	Turbidity (NTU)	7.5	11.0	2.5	10.0
4.	Total Dissolved Solids (mg/l)	200.8	210.5	220.4	370.4
5.	Chloride (mg/l)	21.0	25.0	22.0	21.0
6.	Hardness (mg/l)	18.0	26.0	28.0	35.0
7.	Acidity (mg / l)	25.0	20.0	40.0	90.0
8.	Calcium (mg/l)	12.0	16.0	18.0	26.0
9.	Sodium (mg/l)	9.6	2.2	2.9	5.0
4.2	Magnesium (mg/l)	18.0	10.0	10.0	9.0
11.	Sulphate (mg / l)	40.0	-	-	156.1
12.	Phosphate (mg/l)	0.12	-	-	NIL
13.	Nitrogen (Nitrite & Nitrate) (mg/l)	0.8	1.2	1.5	2.8
14.	Ammonical Nitrogen (mg/l)	0.35	0.60	0.6	0.82
15.	Kjeldahl Nitrogen (mg/l)	1.0	1.68	1.5	2.2
16.	Dissolved Oxygen (mg / l)	9.6	9.8	6.6	7.9
17.	Biochemical Oxygen Demand (mg / l)	5.0	8.0	8.6	9.0
18.	Chemical Oxygen Demand (mg / l)	15.2	11.0	24.0	28.0
19.	Total Coliform (MPN / 100 ml)	4	9	4	4
20.	Faecal Coliform (MPN/100 ml)	0	0	0	NIL

Table – 7

**WATER QUALITY OF SELECTED WATER BODIES DURING 2000- 2001
(UNDER PROJECT)**

Sl.No.	PARAMETERS	Ganol, South Garro Hills	Simsang, South Garro Hills	Rongra South Garro Hills
1.	pH	7.9	8.0	8.1
2.	Conductivity ($\mu\text{mho} / \text{cm}^2$)	150.2	190.0	138.0
3.	Turbidity (NTU)	0.9	12.7	3.5
4.	Total Dissolved Solids (mg / l)	110.8	140.5	99.4
5.	Chloride (mg / l)	16.0	20.0	10.0
6.	Hardness (mg / l)	42.0	60.0	100.0
7.	Alkalinity (mg / l)	32.0	40.2	32.0
8.	Calcium (mg / l)	20.0	40.0	75.0
9.	Sulphate (mg / l)	2.6	10.5	11.1
10.	Phosphate (mg / l)	0.05	0.02	0.03
11.	Iron (mg/l)	0.13	0.9	0.7
12.	Nitrogen (Nitrite & Nitrate) (mg / l)	4.7	5.0	5.7
13.	Ammonical Nitrogen (mg/l)	1.0	1.2	0.6
14.	Dissolved Oxygen (mg / l)	7.8	7.5	7.0
15.	Biochemical Oxygen Demand (mg / l)	0.7	2.0	0.6
16.	Chemical Oxygen Demand (mg / l)	3.0	7.5	1.5
17.	Total Coliform (MPN / 100 ml)	63	490	70
18.	Faecal Coliform (MPN / 100 ml)	33	220	43

**AIR QUALITY MONITORING UNDER PROJECT IN SOME DISTRICT HEADQUARTERS OF
THE STATE
FROM 1st APRIL 2000 TO 31st MARCH 2001
SUSPENDED PARTICULATE MATTER**

Table – 8

SL. NO.	Sampling Location	APR 2000 ($\mu\text{g}/\text{m}^3$)
1.	Nongstoin, West Khasi Hills District	-
2.	Nongpoh, Ri Bhoi District	-
3.	Jowai, Jaintia Hills District	-
4.	Tura, West Garo Hills District	258.3
5.	Baghmara, South Garo Hills District	50.3

OXIDES OF NITROGEN

Table – 9

SL. NO.	Sampling Location	APR 2000 ($\mu\text{g}/\text{m}^3$)
1.	Nongstoin, West Khasi Hills District	-
2.	Nongpoh, Ri Bhoi District	-
3.	Jowai, Jaintia Hills District	-
4.	Tura, West Garo Hills District	31.6
5.	Baghmara, South Garo Hills District	7.7

SULPHUR DIOXIDE

Table – 10

NO.	Sampling Location	APR 2000 ($\mu\text{g}/\text{m}^3$)
1.	Nongstoin, West Khasi Hills District	-
2.	Nongpoh, Ri Bhoi District	-
3.	Jowai, Jaintia Hills District	-
4.	Tura, West Garo Hills District	16.3
5.	Baghmara, South Garo Hills District	BDL*

* BDL: Below Detectable Limits.

Table – 11

NOISE LEVELS AT VARIOUS LOCATIONS IN JOWAI DURING SEPTEMBER 2000

Sl.No.	Location	Category of Area/Zone	dB(A)	
			Day	Night
1.	Jowai Govt. College	Educational	48	43
2.	Circuit House, New Hill	Residential	55	44
3.	Jowai Stadium, Mookyndup	Recreational/ Residential	51	43
4.	District Library, Mynthong	Administrative	50	44
5.	Iaw Musiang Bazar	Commercial	63	53
6.	Iongpiah Club	Recreational/ Residential	52	43
7.	Yiengkien Myntdu	Residential	55	45
8.	Jowai Civil Hospital	Residential	49	39
9.	Khlieh Lamche	Residential	50	42
10.	Jrislein Playground	Recreational/ Residential	53	43

Table – 12

**NOISE LEVELS AT VARIOUS LOCATIONS IN SHILLONG DURING
DECEMBER 2000**

Sl.No.	Location	Category of Area/Zone	Noise Levels (Day time) dB(A)
1.	Lumpynggad	Residential	50.5
2.	Laitumkhrach	Residential	65.0
3.	Golf Links	Residential	46.8
4.	Polo Ground	Residential	53.0
5.	Mawkhar	Residential	53.6
6.	Mawlai Jingkieng	Residential	65.9
7.	Umpling	Residential	46.8
8.	Mawiong	Residential	62.7
9.	Nongthymmai (Dum Dum)	Residential	67.7
10.	Bara Bazar (Motphran)	Commercial	65.4
11.	Police Bazar (Police point)	Commercial	71.4
12.	Garikhana	Commercial	68.8
13.	Mawlai (Petrol Pump)	Commercial	65.6
14.	Rynjah Bazar	Commercial	62.1
15.	Nazareth Hospital	Silence Zone	50.9
16.	Don Bosco Square	Silence Zone	61.2
17.	Shillong College	Silence Zone	49.5
18.	KJP Synod Hospital	Silence Zone	50.1
19.	Dhankheti	Silence Zone	69.6
20.	Military Hospital	Silence Zone	64.1
21.	Red Cross (Laban)	Silence Zone	59.6
22.	Civil Hospital	Silence Zone	64.1
23.	Legislative Assembly	Silence Zone	58.8
24.	Main Secretariat Compound	Silence Zone	56.1
25.	St. Anthony's College	Silence Zone	53.2
26.	Mayurbhanj Campus (NEHU)	Silence Zone	48.1