

RNBCEM: MEF: DEC/58.

Date : 21/12/2009.

The Joint Director (S),
Government of India,
Ministry of Environment & Forests,
North Eastern Regional Office,
Upland Road, Laitumkhrah,
Shillong - 793 003.

Sub : Construction of integrated Cement Plant of 600 TPD alongwith
10 MW Captive Power Plant at Umiam Industrial Area, Ri-Bhoi
District, Meghalaya - Environmental Clearance - 2nd Compliance Report


Ref : SEIAA Clearance No. SEIAA/Project-8/2008/5 dated 11/09/2008 and our
letter No. RNBCEM/MEF/AUG/40 dated 19/08/2009.

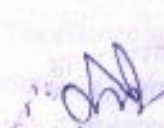
Dear Sir,

With reference to the above, please find enclosed herewith Compliance to the specific
conditions and general conditions as stipulated by SEIAA, vide their letter mentioned
above, alongwith a copy of the latest Environmental Monitoring Report.

Thanking you,

Yours faithfully,
For RNB Cements (P) Ltd.,


Authorised Signatory.
Encl. As above.

 6/1/2010
Ministry of Environ. & Forests
राष्ट्रीय कार्यालय, / Regional Office,
शिल्लॉंग / Shillong - 793 003

No.Eco Lab/RNB/Noise/02/09

Dated: 09.12.2009

TEST REPORT OF AMBIENT NOISE LEVEL MONITORING**Noise pollution (Prevention & Control) Act 2000**

Authority : *RNB Cements (P) Ltd.*
c/o RNB Group of Industry
Barapani, Shillong

Sample Collected by : Mr Shekhar Upadhayay & Mr.Humraj
(Ecomen Laboratories Pvt. Ltd.)

Date of Sample Collection : 02.12.2009

Sl. No.	Location	Time	SPL Value in dB(A)		Leq Value in dB(A)	
			Max.	Min.	Leq value (Day)	Leq value (Night)
i)	Near Inside Factory	13:00	74.5	73.0	74.0	66.2
ii)	Near Guest House	14:00	70.0	68.5	69.4	66.7
iii)	Near Main Gate	15:00 P	71.6	70.5	71.2	67.8

Noise (Ambient Standard)			
Area code	Category of area	Limited in dB(A) Leq	
		Day time	Night time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence zone	50	40

Note :

- Day time is reckoned in between 6:00 AM and 10:00 PM
- Night time is reckoned in between 10:00 PM and 6:00 AM
- Silence zone is defined as areas upto 100 m around such premises as hospitals, educational institutions & courts. The silence zones are to be declared by the Competent Authority.
- Mixed categories of areas should be declared as 'one of the four above mentioned categories by the Competent Authority and the corresponding standard shall apply.

for Ecomen Laboratories Pvt. Ltd.

Ecomen Laboratories Pvt. Ltd.
Flat No.-8, Arif Chamber-V
Sector-H, Lucknow-226 024
Ph: 2761885, Fax: 2761039

WATER QUALITY RESULTS

Author ^{clb} *M/S RNB Concrete (P) Ltd.* R N B Group of Industry State : Meghalaya
 Barapani, Shillong

Sampling Location : Pungmari Spring (W-2)

Sample Collected by: Mr. Humraj

Date of Sample Collection : 18.11.2009 Date of analysis: 20.11.09-24.11.09

Sl. No.	Parameter	Results	IS - 2296 Class C
1	pH	6.80	6.5-8.5
2	Colour (Hazen Units)	<5	300.00
3	Conductivity at 25 °C (µmhos/cm)	44.0	-
4	Dissolved Oxygen (mg/l)	7.00	4.00
5	Biochemical Oxygen Demand (mg/l)	<1.0	3.00
6	Total Dissolved Solids (mg/l)	27.00	1500.00
7	Total Suspended Solids (mg/l)	8.00	-
8	Oil & Grease (mg/l)	Nil	-
9	Chlorides as Cl (mg/l)	14.00	600.00
10	Boron as B (mg/l)	<0.01	-
11	Sulphate as SO ₄ (mg/l)	3.10	400.00
12	Nitrate as NO ₃ (mg/l)	0.04	50.00
13	Free Ammonia as N (mg/l)	<0.01	-
14	Arsenic as As (mg/l)	<0.01	0.20
15	Iron as Fe (mg/l)	0.042	50.00
16	Fluorides as F (mg/l)	0.98	1.50
17	Lead as Pb (mg/l)	<0.01	0.10
18	Copper as Cu (mg/l)	<0.01	1.50
19	Zinc as Zn (mg/l)	Nil	15.00
20	Total Coliform organisms (MPN/100ml)	21.0	5000.00

for Ecomen Laboratories Pvt. Ltd.

Ecomen Laboratories Pvt. Ltd.

Flat No.-8 Arif Chamber-V
 Sector-H, Lucknow-226024

WATER QUALITY RESULTS

Authority: *R N B Group of Industry*
Barapani, Shillong

State : Meghalaya

Sampling Location : Umiam River (W-1)

Sample Collected by: Mr. Humraj

Date of Sample Collection : 18.11.2009

Date of analysis: 20.11.09-24.11.09

Sl. No.	Parameter	Results	IS - 2296 Class C
1	pH	7.00	6.5-8.5
2	Colour (Hazen Units)	<5	300.00
3	Conductivity at 25 °C (μ mhos/cm)	67.0	-
4	Dissolved Oxygen (mg/l)	7.20	4.00
5	Biochemical Oxygen Demand (mg/l)	<1.0	3.00
6	Total Dissolved Solids (mg/l)	42.00	1500.00
7	Total Suspended Solids (mg/l)	6.00	-
8	Oil & Grease (mg/l)	Nil	-
9	Chlorides as Cl (mg/l)	15.00	600.00
10	Boron as B (mg/l)	<0.01	-
11	Sulphate as SO ₄ (mg/l)	2.50	400.00
12	Nitrate as NO ₃ (mg/l)	0.05	50.00
13	Free Ammonia as N (mg/l)	<0.01	-
14	Arsenic as As (mg/l)	<0.01	0.20
15	Iron as Fe (mg/l)	0.05	50.00
16	Fluorides as F (mg/l)	1.10	1.50
17	Lead as Pb (mg/l)	<0.01	0.10
18	Copper as Cu (mg/l)	<0.01	1.50
19	Zinc as Zn (mg/l)	2.60	15.00
20	Total Coliform organisms (MPN/100ml)	51.0	5000.00

for Ecomen Laboratories Pvt. Ltd.

Ecomen Laboratories Pvt. Ltd.
Flat No.-8, Arif Chamber-V
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Ph.: (0522) 2761885; Fax: 2761039

No. Eco Lab/RNB/Air/02/09
Dated : 09.12.2009**TEST REPORT OF AMBIENT AIR**

Authority : *RNB CEMENTS (P) LTD.*
R N. B Group of Industry
Barapani, Shillong

Sample collected by : Mr. Shekhar Upadhayay & Mr. Humraj
(Ecomen Laboratories Pvt. Ltd.)

Date of sample collection : December 1st-2nd, 2009

<u>Tests Conducted</u>	<u>Locations</u>			<u>Standard</u>	
	L1	L2	L3	S1	S2
Respirable Particulate Matter (RPM) $\mu\text{g}/\text{m}^3$	81.5	73.0	56.0	100	150
Suspended Particulate Matter (SPM) $\mu\text{g}/\text{m}^3$	243.0	218.6	195.0	200	500
Sulphur Dioxide (SO ₂) $\mu\text{g}/\text{m}^3$	19.3	16.5	21.00	80	120
Oxides of Nitrogen (NOx) $\mu\text{g}/\text{m}^3$	26.3	25.7	23.6	80	120
Carbon monoxide (CO) ($\mu\text{g}/\text{m}^3$)	<1000	<1000	<1000	-	-

Note:

1. L1 = Inside Proposed Site, L2 = Near Main Gate, L3 = Near Guest House

S1 = Ambient Air Quality Standard for Residential & Rural Area

S2 = Ambient Air Quality Standard for Industrial Area

for Ecomen Laboratories Pvt. Ltd.

Ecomen Laboratories Pvt. Ltd.
Flat No.-8, 2nd Floor, Arif Chamber-V
Sector-H, Aliganj, Lucknow-226 024
Tel: 2761885, Fax-2761039

SOIL QUALITY DATA

Authority : M/s R N B Cement Pvt. Ltd.,
 Barapani, Meghalaya

State : Meghalaya

Sampling Location: Project Site

Sample Collected by: Mr. Humraj

Date of analysis: 20.11.09-24.11.09

Date of Sample Collection: 18.11.2009

Sl. No.	PARAMETERS	Results
		S-1
1	pH	7.80
2	Elec. Conductivity(μ mhos/cm)	57.00
3	Nitrogen Av.(Kg/ha)	345.00
4	Phosphorous Av.(Kg P2O5/ha)	3.00
5	Potassium Av.(Kg/ha)	314.00
6	Calcium (Kg/ha)	153.00
7	Magnesium (Kg/ha)	54.00
8	Iron Av.(Kg/ha)	7.30
9	Boron Av.(Kg/ha)	4.20
10	Organic Carbon (%)	0.15
11	Natural Moisture content %	6.20
12	Bulk Density(gm/cc)	2.00
13	Manganese as Mn (Kg/ha)	1.50
14	Porosity in %	22.00
15	Grain Size Distribution	
	a) Textural Class	Sandy Loam
	b) Sand (%)	52.00
	c) Silt (%)	32.00
	d) Clay (%)	16.00
16	Cation Exchange Capacity (mg/100g)	3.60

for Ecomen Laboratories Pvt. Ltd.

Ecomen Laboratories Pvt. Ltd.
 Flat No.-8, 2nd Floor, Arif Chamber-V
 Sector-H, Aliganj, Lucknow-226024
 Tel: 2761885, Fax-2761039

A. Specific Conditions		
i)	The stack emissions from various sources shall not exceed 50 mg/Nm ³ .	Will be complied
ii)	Bag house / filters shall be provided to control the fugitive emissions during loading and unloading. The project authorities shall store all the raw materials except limestone in the covered sheds to control fugitive emissions. The coal storage facility should have water sprinkling facility in order to arrest fire hazard if any.	Will be complied
iii)	The locations of ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the Meghalaya State Pollution Control Board(MSPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	Will be complied as and when required
iv)	Total water requirement shall not exceed 750 mg/Nm ³ . The Project authorities shall install sewage treatment plant for minimum 30 mg/Nm ³ . Capacity to treat domestic sewage and treated sewage shall be utilized for the green development. No waste water shall be discharged outside the premises and zero discharge shall be ensured. Surface water restricted to a maximum of 250 kl/day shall be drawn from Fungimari stream and no surface runoff from the factory premises shall either reach/contaminate Umiam lake.	Will be complied
v)	The project authorities shall make all out effort to use high calorific value hazardous in the kiln and accordingly, necessary provision in the kiln shall be made.	Will be assured
vi)	The project proponents have no proposal to exploit captive mining for lime stone and instead they intend to procure the same from outstation suppliers. He shall ensure that such procurement does not encourage illegal, hazardous and environmentally insensitive mining.	Will be complied Agreement letter with supplier and IBM approval letter in the name of levee are attached.

vii)	The project authority shall transport the raw material and the product in covered means. As stated by them, they shall enter into agreement with raw material supplier to ensure transportation that would not harm the environment.	Will be complied
viii)	Thirty percent of the core project area shall be developed as green belt as per the guidelines of Central Pollution Control Board to mitigate the effect of fugitive emission. The program ought to be completed within 2 years from the date of issuance of clearance by the SEIAA.	We will be starting the plantation very soon as the site is yet to be excavated etc.
ix)	The project authorities shall provide a Health Center with all emergency medicines and ambulance along with full time doctors. Occupational health surveillance of the workers shall be carried out on a regular basis in terms of their EMP documents and records shall be maintained as per the Factories Act.	Will be complied As and when required
x)	The project authorities shall obtain all other necessary statutory clearances from the concerned departments prior to commencement of construction is required.	All statutory clearances have already been obtained by us. Nothing is pending
xi)	Measures shall be taken to prevent impact of particulate emission/fugitive emission, if any, from the proposed plant on the surrounding reserve forests viz. Riakhwan, Umkhuti and Shyrwat RFs which are located within 10 km radius of the project. Further, Conservation Plan for the conservation of wild fauna in consultation with a reputed institution such as wildlife institute of India, Dehedarun shall be prepared and implemented.	Will be complied conservation plan is underprocess Monitoring reports attached.
B. General Conditions		
i)	The project authorities shall strictly adhere to the stipulations of the SPCB/State Government or any other statutory body.	Will be complied
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment & Forests or their nominated authority as the case may be. In case of deviations or alterations in the project proposal from those	Will be complied

	submitted to this committee for clearance, a fresh reference shall be made to the SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	
iii)	The gaseous emissions (SO ₂ , NO _x) and particulate matter levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emissions shall exceed the prescribed limits. Interlocking system of equipment shall be chosen such that in the event of failures of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Will be complied
iv)	The company shall undertake following Waste Minimization measures: <ul style="list-style-type: none"> • Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. • Use of closed pneumatic system for transport of line material. • All venting systems shall be connected with dust or particulate arresting equipments. • Dust/particulate matter collected in pollution control equipments shall be reused. 	Will be assured and complied
v)	Fugitive emissions in the work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Control Board.	Will be complied
vi)	The overall noise levels in and around the plant area shall be kept within the standards by providing noise control measures such as acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient	Will be complied

	noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986, Rules, 1989 viz, 75dBA (day time) and 70 dBA (night time).	
vii)	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and import of Hazardous Chemicals Rules, 1989 as amended and Hazardous Waste (Management & Handling) Rules, 1989, as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	Will be complied
viii)	Rainwater harvesting shall be done within the premises. Ground water recharge structures shall be installed around the plant in consultation with local authorities to maintain the ground water table.	Will be complied It will be done.
ix)	The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SEAC within three months of receipt of the letter of approval.	Discussions have already been held with local headmen etc. for community development etc.
x)	As proposed, the project authorities shall earmark Rs. 392.00 lakhs as capital investment towards pollution control equipment and associated infrastructure and Rs. 10 lakh per annum till project subsists for ecocodevelopment activities to implement the conditions stipulated by the SEIAA, Ministry of Environment & forests with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose. The cost of environmental protection measures for the project will be Rs. 392.00 lakhs.	Will be complied Before construction work
xi)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Will be complied
xii)	All pollution control equipment in STP shall	Will be complied

	be manned full time by trained personnel.	
xiii)	The Implementation of the project vis-à-vis environmental action plans shall be monitored by the SPCB. A six monthly compliance status report shall be submitted to SEAC and SPCB and shall be posted on the website of the company.	We have started the construction work on 05/10/2009 and the project would be completed within the expected schedule.
xiv)	<p>The project authorities shall inform the SEIAA on the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.</p> <p>The Authority may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.</p> <p>The Authority may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.</p> <p>The Authority may on the recommendation of SEAC reserve the right to stipulate additional conditions, if found necessary. The Company in a time bound manner shall implement these conditions.</p> <p>The above conditions will be enforced, interalia under the provisions of the water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management & Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 alongwith their amendments and rules.</p>	The financial closure was done in the month of June and the work has started in the same month. The project is scheduled to take 24 months to complete starting from June 2009.