

RNBCEM: MOEF: JUL/56
Date : 16.07.2011

The Joint Director(s),
Government of India,
Ministry of Environment & Forests,
North Eastern Regional Office,
Lumbatngen (Law-U-Sib),
Shillong - 793 021.

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 - 5th Compliance
Report

Ref: Environmental Clearance No. SEIAA/Project - 8/2008/5
dated 11/09/2008

Dear Sir,

With reference to the above, please find enclosed herewith Compliance to the specific conditions and general conditions as stipulated by State Environment Impact Assessment Authority, Meghalaya vide their letter mentioned above, alongwith a copy of the latest Environmental Monitoring Report for the period January 2011 - June 2011. A soft copy of the report is also attached herewith.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,
For RNBCEM (P) Ltd.,



Authorised Signatory.
Encls. As above.

20/7/11
GOVERNMENT OF INDIA
Ministry of Environment & Forests
North East Regional Office
Lumbatngen, Shillong

No. Eco Lab/RNB/Air/01/11

Dated : 15.04.2011

TEST REPORT OF AMBIENT AIR

Authority : M/s. RNB Cements Pvt. Ltd.
Barapani, Shillong

Sample collected by : Mr. Deepak Srivastava & Mr. Tejbhan Singh
(Ecomen Laboratories Pvt. Ltd.)

Date of sample collection : April 5th-6th, 2011

<u>Tests Conducted</u>	<u>Locations</u>			<u>Standard</u>
	L1	L2	L3	
Particulate Matter (PM _{2.5}) µg/m ³	35.0	30.0	30.0	60
Particulate Matter (PM ₁₀) µg/m ³	68.0	59.0	58.0	100
Sulphur Dioxide (SO ₂) µg/m ³	17.0	16.0	15.0	80
Oxides of Nitrogen (NOx) µg/m ³	22.0	20.0	19.0	80
Carbon monoxide (CO) (µg/m ³)	300	350	300	2000

Standard:

Ambient Air Quality Standard for Residential, Industrial, Rural & Other Area

Note :

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

for Ecomen Laboratories Pvt. Ltd.

Ecomen Laboratories Pvt. Ltd.

Flat Nos. 5-8, 2nd Floor, Arif Chamber-V

Sector-H, Aliganj, Lucknow-226024

Ph.: 2746282, Fax : 2745726

No.Eco Lab/RNB/Noise/01/11

Dated: 15.04.2011

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

Authority : M/s. RNB Cements Pvt. Ltd.
Barapani, Shillong

Sample Collected by : Mr. Deepak Srivastava & Mr. Tejbhan Singh
(Ecomen Laboratories Pvt. Ltd.)

Date of Sample Collection : April 5th - 6th, 2011

Sl. No.	Location	Time	SPL Value in dB(A)		Leq Value in dB(A)	
			Max.	Min.	Leq value (Day)	Leq value (Night)
i)	Inside Factory	11:00	72.0	70.0	69.0	55.0
ii)	Near Guest House	11:30	74.0	71.0	70.0	61.0
iii)	Near Main Gate	12:10	73.0	72.0	71.0	62.0

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.

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WATER QUALITY RESULTS**Authority :** M/s. RNB Cements Pvt. Ltd.
Barapani, Shillong**State :** Meghalaya**Sampling Location :** Umiam River (W-1)**Sample Collected by:** Mr. Deepak Srivastava**Date of Sample Collection :** 06.04.2011**Date of analysis:** 06.04.11-12.04.11

Sl. No.	Parameter	Results	IS - 2296 Class C
1	pH	7.30	6.5-8.5
2	Colour (Hazen Units)	<5	300.00
3	Conductivity at 25 °C (µmhos/cm)	69.0	-
4	Dissolved Oxygen (mg/l)	7.30	4.00
5	Biochemical Oxygen Demand (mg/l)	<1.0	3.00
6	Total Dissolved Solids (mg/l)	38.0	1500.00
7	Total Suspended Solids (mg/l)	3.80	-
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)	1.80	400.00
12	Nitrate as NO ₃ (mg/l)	0.07	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)	0.07	50.00
16	Fluorides as F (mg/l)	0.90	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)	1.90	15.00
20	Total Coliform organisms (MPN/100ml)	40.0	5000.00

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WATER QUALITY RESULTS

Author M/s. RNB Cements Pvt. Ltd. **State** : Meghalaya
Barapani, Shillong

Sampling Location : Pungmari Spring (W-2)

Sample Collected by: Mr. Deepak Srivastava

Date of Sample Collection : 06.04.2011 **Date of analysis:** 06.04.11-12.04.11

Sl. No.	Parameter	Results	IS - 2296 Class C
1	pH	3.80	6.5-8.5
2	Colour (Hazen Units)	<5	300.00
3	Conductivity at 25 °C (µmhos/cm)	36.0	-
4	Dissolved Oxygen (mg/l)	4.80	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)	4.50	-
8	Oil & Grease (mg/l)	Nil	-
9	Chlorides as Cl (mg/l)	4.90	600.00
10	Boron as B (mg/l)	<0.01	
11	Sulphate as SO ₄ (mg/l)	2.90	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)	0.032	50.00
16	Fluorides as F (mg/l)	0.68	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)	25.0	5000.00

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SOIL QUALITY DATA**Authority :** M/s. RNB Cements Pvt. Ltd.,
Barapani, Meghalaya**State :** Meghalaya**Sampling Location:** Project Site**Sample Collected by:** Mr. Deepak Srivastava**Date of analysis:**07.04.11-13.04.11**Date of Sample Collection:** 06.04.2011

Sl. No.	PARAMETERS	Results
		S-1
1	pH	7.80
2	Elec.Conductivity(μ mhos/cm)	50.60
3	Nitrogen Av.(Kg/ha)	302.00
4	Phosphorous Av.(Kg P ₂ O ₅ /ha)	3.80
5	Potassium Av.(Kg/ha)	295.00
6	Calcium (Kg/ha)	142.00
7	Magnesium (Kg/ha)	42.00
8	Iron Av.(Kg/ha)	7.10
9	Boron Av.(Kg/ha)	3.90
10	Organic Carbon (%)	0.12
11	Natural Moisture content %	7.00
12	Bulk Density(gm/cc)	1.95
13	Manganese as Mn (Kg/ha)	1.38
14	Porosity in %	16.00
15	Grain Size Distribution	
	a) Textural Class	Sandy Loam
	b) Sand (%)	50.00
	c) Silt (%)	28.00
	d) Clay (%)	22.00
16	Cation Exchange Capacity (mg/100g)	2.30

for Ecomen Laboratories Pvt. Ltd.

Deepak Srivastava
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ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

Half Yearly Compliance Report : January'2011 to June'2011

Reference : Environmental Clearance by SEIAA, Meghalaya vide their letter no. SEIAA/Project-8/2008/5 dated 11/09/2008

Name of the Project : Integrated Cement Plant (600 TPD Cement & 10 MW Captive Power Plant) at Barapani Industrial Area, Dist. Ri-Bhoi, Meghalaya by M/s RNB Cements (P) Ltd.

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 Monitoring report enclosed
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 Pungimari 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 complied

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
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.	Already started
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 required statutory clearances have been obtained by us.
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. Riatkhwan, 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, Dehdarun shall be prepared and implemented.	Already submitted vide letter no. RNBCEM/MOEF dtd 08/Nov/2010
B. General Conditions		
i)	The project authorities shall strictly adhere to the stipulations of the SPCB/State Government	Will be complied

	or any other statutory body.	
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 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.	Will be complied
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	Will be complied

	by the State Pollution Control Boards/Central Pollution Control Board.	
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 noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986, Rules, 1989 viz, 75dBA (day time) and 70 dBA (night time).	Will be complied
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
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.	Will be complied
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	Under process

	of environmental protection measures for the project will be Rs. 392.00 lakhs.	
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 be manned full time by trained personnel.	Will be complied
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.	Under process
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>	The financial closure was done in the month of June 2009.