



DATED- 16.06.2014

**To,
Regional office (Central Region),
Ministry of Environment and Forests,
A-3, Chandrashekharpur, Bhubaneshwar – 751 023,
Orissa.
Tel: 0674 – 2301248, 2301213; Fax: 0674-2302432**

**Sub. : Status of Environmental Compliance of M/s. Eco Cements Limited,
Bhabhua for the period of April 2013 to March 2014**

Ref : ECO/ BIHAR/SEC/16062014/03

Dear Sir,

We are submitting herewith the yearly Environmental Compliance Report of **Eco Cements Limited**, Plot No. 1644, Bheriya More, Kulharia, Durgauti, Bhabua, Bihar, Pin code- 821105 for the period of April 2013 to March, 2014.

This is for your kind information please, with a request to kindly acknowledge the same.

Thanking you.

Yours Faithfully,
For Eco Cements Ltd.

A handwritten signature in blue ink, appearing to read "Rajiv Saini".

Rajiv Saini
(G.M. Projects)

Copy to.

- 1. The Chairman,
Bihar State Pollution Control Board,
BeltronBhavan, 2nd Floor, LalBahadurShastri Nagar,
Patna- 800023**
- 2. The Chairman, Central Pollution Control Board,
PariveshBhawan, CBD-cum-Office Complex,
East Arjun Nagar, Delhi - 110 032**

ECO CEMENTS LIMITED

Corp. Office : 72, Jawaharnagar Extn, Bhelupur, Varanasi-221010. Telefax – 0542-2277074

Zonal Office : 1644, Bheriya More, Kulharia, Durguati, Bhabua (Kaimur), PIN-821105, Bihar.



Dated: 16.06.2014

ECO CEMENTS LIMITED, BHABHUA, BIHAR

Compliance report of Environment Clearance for Bhabhua Cement Plant
(For the Period from APRIL 2013 to MARCH 2014)

Reference Letter from MOEF, New Delhi - F. No. J-11011/287/2010-IA-II (I) dated 31.10.2011

A. Compliance of Various Condition laid down as per Environmental Clearance

Sl. No	Particulars	Status of Compliance
01	Particulate emissions shall be controlled within 50 mg/Nm ³ by installing adequate air pollution control system viz. Bag filters and stacks of adequate height etc. Data on ambient air, fugitive and stack emissions shall be submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB regularly.	Air borne dust from all emission points are maintained well within norm of 50mg/Nm ³ . Data on ambient air, fugitive and stack emissions are attached as ANNEXURE- 1.
02	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be followed.	We are following the National Ambient Air Quality Standards and monitored data are attached as ANNEXURE – 2.
03	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB should be followed.	The gaseous emission levels including secondary fugitive emissions from all the sources are maintained properly as is evident from the monitoring data attached as ANNEXURE – 3.
04	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw meal handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. All the raw material stock piles should be covered. A closed clinker stockpile system shall be provided. All conveyers should be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided besides cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	Adequate no of dust collector are installed at all dust emission points. All the raw material are kept under covered yards and silos and all the conveyers are covered and cement, fly ash and clinker are stored in Silos. Pneumatic system is used for fly ash handling. Guidelines are completely followed.
05	Asphalting/concreting of roads and water spray all around the stockyard and loading/unloading areas in the cement plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Concreting of road has been completed and provision has been made for regular water sprinkling by a tractor mounted sprinklers and pipe sprinklers has been laid near critical areas prone to air pollution

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06	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash should be transported in the closed containers only and should not be overloaded. Vehicular emissions should be regularly monitored.	We are using close container vehicles and bulkers for the transportation of fly ash and the handling sections are equipped with dust collection equipments. Vehicular emission is regularly monitored and efforts are made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land.
07	Total ground water requirement for the cement plant shall not exceed 200m ³ /day and necessary permission for the drawl of water shall be obtained from the Competent Authority. All the treated wastewater should be recycled and reused in the process and/or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge should be adopted.	Total ground water requirement for the cement plant is well below 200 m ³ /day and we are Exempted for obtaining NOC from CGWA as per their Guidelines for ground water abstraction for drinking and domestic purposes and Industry/Infrastructure project proposals in Non-notified areas. All other conditions are complied. ANNEXURE- 4.
08	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	Rain Water harvesting is carried out and the capacity of the reservoirs is planned such that maximum water requirement may be met through it.
09	All the bag filter dust, raw meal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process used for cement manufacturing. Spent oil and batteries should be sold to authorized recyclers / reprocesses only.	We are recycling and reusing all the bag filter dust, raw meal dust, clinker dust and cement dust from pollution control devices in the process used for the cement manufacturing. We sell off spent oil and batteries to authorized recyclers/ reprocesses only. Annexure - 5
10	Green belt shall be developed in at least 33 % area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO. Green belt development shall be started within 3 months after obtaining EC and completed within 3 years or before commissioning of the plant whichever is earlier.	Green Trees are planted in 33 % area in and around the cement plant as per the CPCB guidelines. The tree plantation is an ongoing process and we are following it in letter of spirit.
11	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.	Enterprise Social Commitment is being followed and we have started community development programme and participated in harit kranti.
12	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	We have provided housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing provided is temporary and is in the process of removal.

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B. Compliance of General Condition as per EC

Sl.No.	Particulars	Status of Compliance
01	The project authorities must strictly adhere to the stipulations made by the Bihar State Pollution Control Board and the State Government.	We will strictly adhere to the stipulations made by the Bihar State Pollution Control Board and the State Government.
02	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	We will take no further expansion or modifications in the plant without prior approval of the Ministry of Environment and Forests.
03	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	We will conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time for the gaseous emissions from various process units.
04	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO2 and NOX are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.	We have establish four ambient air quality monitoring stations in the downward direction as well as where maximum ground level concentration of PM10, SO2 and NOX are monitored regularly. Data on ambient air quality and stack emission are regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.
05	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	No Industrial wastewater is generated as it being only a Cement Grinding Unit.
06	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Noise control measures including noise dampener sheet in ball mill, acoustic hoods, silencers, enclosures etc. are installed on all sources of noise generation. Noise Level monitoring data are attached as ANNEXURE- 6
07	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	We conduct occupational health surveillance of the workers on a regular basis and records are maintained as per the Factories Act.
08	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Our Website development is going on and will be completed shortly and a copy of the clearance letter shall be put on the website. A copy of clearance letter has already been sent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body.
09	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	We will upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on our website after it is created and shall update the same periodically. We send it to the Regional Office of the MOEF at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. We monitor and display the criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects at a convenient location near the main gate of the company in the public domain.

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10	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar / CPCB / SPCB shall monitor the stipulated conditions.	We are submitting six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.
11	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Bhubaneswar by e-mail.	We are abiding by the rule.

C. Compliance of conditions as per Consent-to-Establish (NOC)

Sl.No.	Particulars	Status of Compliance
01	The proponent shall obtain 'Consent-to-Operate' under Section 25 & 26 of The Water Act, 1974 and section 21 of The Air Act, 1981 prior to commissioning of the plant from Bihar State Pollution Control Board.	We have obtained 'Consent-to-Operate' under Section 25 & 26 of The Water Act, 1974 and section 21 of The Air Act, 1981 prior to commissioning of the plant.
02	They shall comply with the provisions of Water (Prevention and Control of Pollution) Act, 1974, The Air (Prevention and Control of Pollution) Act, 1981, The Environment (Protection) Rules, 1986 and notification issued there under.	We have complied with the provisions of Water (Prevention and Control of Pollution) Act, 1974, The Air (Prevention and Control of Pollution) Act, 1981, The Environment (Protection) Rules, 1986 and notification issued there under.
03	The effluent (Domestic or Trade) and emission shall conform to the standard prescribed under The Rules. No process waste water shall be discharged outside the factory premises and 'zero' discharge shall be adopted	No process waste water is discharged outside the factory premises and 'zero' discharge is adopted. The effluent water is used in the development of Green Belt.
04	They shall submit data on ambient air, fugitive emission and stack emission to the Board. The National Ambient Air Quality Standards issued by the MoEF dated 16th-Nov,2009 shall be followed.	The data for all emission points have been submitted and stacks have been erected wherever required.
05	They shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking etc), bagging and packing areas etc.	Dust collection system and bag filters have been installed at all raw material handling and transfer points along with stacks of 30m height.
06	They shall submit status of compliance/progress report of special condition as and general condition of EC issued by MoEF, after every three months to the Board	Status of compliance/progress report of special Condition as and general condition of EC issued by MoEF, is being submitted after every three months to the Board.
07	The Proponent shall procure and install D .G. Set with a valid Type of Approval Certificate and	The D.G.Set has been procured from Jakson Limited and all conditions have been complied.

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	conformity of production Certificate from the manufacturer as specified under the Rules.	
08	The proponent shall have to take all possible measure to control water and air pollution, so that surrounding environment/habitation/vegetation should not be affected directly or indirectly and,	Measures have been taken to control water and air pollution, so that surrounding environment/habitation/vegetation is not affected directly or indirectly. Air borne dust at all emission points are extracted through dust extraction system to the bag filters and stacks of 30 Meter height high are erected. The water discharge is used in the development of Green Belt.
09	Greenbelt (33% of plant area) shall be developed and maintained	Green Trees are planted around the plant

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Annexure - 1

Stack Emission Level Monitoring Report for the year 2013-2014

Sr. No.	Month & Year	Particulate Matter Emission (mg/Nm ³)						Standard Limit of Particulate Matter Emission
		Stack Attached with Bag House of Cement Mill	Stack Attached with Bag House of flyashunloader	Stack Attached with Bag House of Clinker & gypsum unloader	Stack Attached with Bag House of gypsum & clinker feeding	Stack Attached with DG 500 KVA	Stack Attached with DG 125 KVA	
1	April, 2013	28.4	27.5	28.6	29.7	28.4	31.4	50 mg/Nm ³
2	May,2013	27.9	28.9	25.4	27.9	30.7	33.4	
3	June,2013	34.7	29.7	29.7	28.5	36.5	32.5	
4	July,20123	29.1	28.4	28.4	27.5	34.3	33.7	
5	Aug.,2013	21	28	25	30.4	27.5	34.8	
6	Sept,2013	29.3	28.1	27.1	28.5	23.8	35.3	
7	Oct.,2013	28.4	27.1	25.4	30.4	26.8	33.8	
8	Nov.,2013	29.1	26.1	28.2	29.3	27.8	33.5	
9	Dec.,2013	28.1	27.1	29.1	28.4	24.8	34.4	
10	Jan.,2014	27.1	25.4	28.4	29.4	29.8	31.1	
11	Feb.,2014	36.4	42.8	34.6	28.6	28.4	33.6	
12	Mar.,2014	26.1	28.2	27.7	28.1	27.8	32.7	
Average Values		29.33	29.13	28.33	29.16	30.55	33.52	



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Annexure- 2

Ambient Air Quality Monitoring Report (All Values in ug/m3)													
Year: 2013-2014													
Sl. No.	Location --- ->	Near Main Gate			Near CCR			Near Canteen			Near Gypsum & Clinker Storage		
	Month	PM ₁₀	SO ₂	NO ₃	PM ₁₀	SO ₂	NO ₃	PM ₁₀	SO ₂	NO ₃	PM ₁₀	SO ₂	NO ₃
1	April, 2013	67.3	11.8	23.8	71.6	10.8	12.7	67.8	21.3	19.6	68.5	15.4	21.6
2	May, 2013	70.9	12.3	25.8	73.8	11.4	12.8	70.4	24.3	21.5	64.8	15.9	24.3
3	June, 2013	71.4	12.9	25.8	74.8	11.9	12.9	70.9	25.6	24.3	67.9	16.5	25.8
4	July, 2013	72.8	15.4	19.3	69.7	15.4	19.3	79.5	19.2	17.9	72.8	21.2	22.2
5	Aug, 2013	73.2	19.3	25.2	88.01	18.1	20	79.5	16.1	20.2	77.1	15.6	20.3
6	Sept, 2013	72.2	21.2	27.1	87.02	19.5	24.2	70.6	18.1	21.4	74.2	14.5	21.5
7	Oct., 2013	76.1	19.3	23.4	80.01	19.1	22.5	69.7	15.4	19.3	76.3	17.9	20.7
8	Nov., 2013	72.8	21.2	22.2	75.7	18.4	19.8	67.2	16.5	21.2	72.5	16.4	18.3
9	Dec., 2013	72.7	17.6	23.5	79.7	16.6	20.4	70.4	15.1	19.3	73.6	12.7	18.9
10	Jan., 2014	72.5	16.4	18.3	75.7	16.5	21.2	71.5	21.2	23.4	75.7	15.4	19.3
11	Feb., 2014	67.1	10.5	11.5	71.2	9.3	10.1	60.6	19.0	19.5	63.4	17.0	10.1
12	Mar., 2014	70.1	11.5	10.3	70/9	10.9	12.3	67.3	11.2	19.9	67.2	10.2	9.3
	Average	72.5	16.9	20.1	69.7	16.0	18.9	70.7	15.7	18	72.5	14.5	17.8

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Annexure – 3

Fugitive Dust Emission Level Monitoring Report for the period April 2013 TO MARCH 2014

Concentration of Total Dust & Respirable Dust (All Values in mg/m³)

Sl. No.	Month	Mill Section Ground Floor	Mill Section 1st Floor	Mill Section 1st Floor	South Side of Mill Section	North side of Mill Section
		Total Dust,mg/M ³	Total Dust, mg/M ³	Total Dust, mg/M ³	Total Dust, mg/M ³	Total Dust, mg/M ³
1	April 2013	4.5	3.7	3.9	5.1	4.2
2	May 2013	3.7	4.6	3.8	3.9	2.9
3	June 2013	3.1	4.9	4.1	3.8	3.1
4	July 2013	3.7	3.8	3.9	4.1	2.8
5	August 2013	3.3	4.7	4.4	3.9	2.9
6	September 2013	4.1	5.1	4.2	4.4	3.0
7	October 2013	3.4	3.9	2.9	4.2	2.7
8	November 2013	3.2	3.8	3.1	5.0	3.3
9	December 2013	3.5	4.1	2.8	5.3	3.3
10	January 2014	3.3	3.9	2.9	5.1	3.2
11	February 2014	5.1	4.4	3.0	5.6	4.2
12	March 2014	3.6	4.2	2.7	5.2	3.2
Average		3.7	4.1	3.82	3.67	3.59

Note: Permissible Time Weighted Average (T W A) Conc based on Silica Content as per Factories Act' 1948 Second Schedule are; For Total Dust – 10.00 mg/M³ and Respirable dust 5.00 10.00 mg/M³


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Annexure – 4**WATER CONSUMPTION:**

Process	N.A. (As plant is based on dry process technology)
Cooling and Dust Suppression	221.5 KL
Domestic	5216.0 KL

Name of Product	Process water consumption per unit of product Output	
	During Previous Financial Year(2012-13)	During Current Financial Year(2013-14)
PPC Cement	.00123KL/MT OF CEMENT PRODUCTION	.00137 KL/ MT OF CEMENT PRODUCTION

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Annexure – 5

HAZARDOUS WASTE**(As specified under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008**

Hazardous Waste	Total Quantity (Ltrs)	
	During Previous Financial Year (April 2012- March 2013)	During Current Financial Year (April 2013-March 2014)
	We are having common authorization for Hazardous Waste Management & Handling for Clinker Grinding Unit (Cement 1.0 MTPA & 125 KVA& 500 KVA D. G. Set)	
a) From Process, Cement manufacturing (Grinding) is based on "Dry Process" No Hazardous waste is generated from the process except used oil which is drained from Machinery / Equipments	Total Quantity Generated in 2012-13 : 280 Ltrs Old Stock : NIL Ltrs Sale out : NIL Ltrs Balance : 280 Ltrs	Total Quantity Generated in 2013-14 : 600 Ltrs Old Stock : 280 Ltrs Sale out : 480 Ltrs Balance : 400 Ltrs
(b) From Pollution Control Facilities	N.A	N.A


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Annexure-6

Ambient Noise level Monitoring Report for the year 2013-14 (dB(A))**TIME WEIGHTED AVERAGE (TWA) OF NOISE LEVEL IN dB(A)**

S. No.	Location ---->	Plant boundary near Main gate	Plant boundary near CCR	Plant boundary near Canteen	Plant boundary near Gypsum storage	Plant boundary near clinker storage	Prescribed Standard Limit (dB(A))
1	April, 2013	61.7	62.8	62.8	61.9	61.3	75 dB(A) in day & 70 dB(A) in night
2	May,2013	63.8	67.4	64.8	64.3	59.7	
3	June,2013	64.8	63.9	60.8	64.3	57.6	
4	July,2013	62.8	63.7	59.3	60.2	58.4	
5	Aug.,2013	62.8	62.8	63.7	59.3	61.3	
6	Sept,2013	60.2	58.4	62.8	63.7	59.3	
7	Oct.,2013	61.7	66.3	60	60	60	
8	Nov.,2013	60.7	67.3	63.4	63.4	63.4	
9	Dec.,2013	64.6	69.1	60.2	58.4	58.8	
10	Jan.,2014	65.3	64,0	62.5	62.5	62.5	
11	Feb.,2014	62.8	63.7	59.3	60.2	58.4	
12	Mar.,2014	62.5	61.2	59.9	60.3	61.4	
Average Values		62.6	56.9	61.2	60.9	60.4	

* Day time reckoned from 06 00AM to 10:00 PM

** Night time reckoned from 10: PM to 06:00 AM


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