

To,  
Ministry of Environment and Forests,  
BANGLOW NO. A-2, SHYAMLI CALONY,  
RANCHI-834002, JHARKHAND  
PH. 0651-2410007, 2410002

Dated 25.06.2017

Our Ref :ECO/BIHAR/SEC/25062017/10

Sub : Status of Environmental Compliance of M/s. Eco Cements Limited, Bhabhua for the period of OCT 2016 TO MARCH 2017

Dear Sir,

This refers to above mentioned subject. In this matter, please find attached Status of Environmental Compliance of M/s. Eco Cements Limited, Bhabhua for the period of OCT 2016 TO MARCH 2017

Kindly acknowledge the receipt and oblige.

Thanking you in anticipation,  
For Eco Cements Limited

**ECO CEMENTS LTD**

AUTHO SIGN  
Authorized Signatory / Director

Encl.

1. Status of Environmental Compliance of M/s. Eco Cements Limited, Bhabhua for the period of OCT 2016 TO MARCH 2017

Copy to.

1. The Chairman,  
Bihar State Pollution Control Board,  
Parivesh Bhavan, N.S.B.-2,  
Patliputra Industrial Area, Patliputra,  
Patna, Bihar – 800010
2. The Chairman, Central Pollution Control Board,  
Parivesh Bhawan, CBD-cum-Office Complex,  
East Arjun Nagar, Delhi - 110 032

To,  
The Chairman,  
Bihar State Pollution Control Board,  
Parivesh Bhavan, N.S.B.-2,  
Patliputra Industrial Area, Patliputra,  
Patna, Bihar – 800010

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RANCHI-834002, JHARKHAND  
PH. 0651-2410007, 2410002

**ECO CEMENTS LIMITED, BHABHUA, BIHAR**  
 Compliance report of Environment Clearance for Bhabhua Cement Plant  
 (For the Period from OCT 2016 TO MARCH 2017)  
 Reference Letter from MOEF, New Delhi - F. No. J-11011/287/2010-IA-II (I) dated 31.10.2011

**Compliance of Specific Condition as per EC**

Sl.No.	Particulars	Status of Compliance
1	Particulate emissions shall be controlled within 50 mg/Nm <sup>3</sup> 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 at all emission points are extracted through dust extraction system to the bag filters and stacks of 30 Meter height high are erected. Particulate emission is below and 50mg/Nm <sup>3</sup> . Data on ambient air, fugitive and stack emissions shall be submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB regularly (REPORTS ATTACHED SEE ANNEXURE - 1)
2	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 should be followed.	We are following the The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November. (REPORTS ATTACHED SEE ANNEXURE - 2)
3	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.	We are following the Guidelines of Practice issued by the CPCB. The gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and it will be regularly monitored. (REPORTS ATTACHED SEE ANNEXURE - 3)
4	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 conveyors are covered and cement, fly ash and clinker are stored in Silos. Pneumatic system is used for fly ash handling.
5	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
6	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 are 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.
7	Total ground water requirement for the cement plant shall not exceed 200 m <sup>3</sup> /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 <sup>3</sup> /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. (REPORTS ATTACHED - SEE ANNEXURE - 4)

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8	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 and balance water requirement shall be met from other sources.
9	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 / reproprocessors 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 will also sell off spent oil and batteries to authorized recyclers/ reproprocessors only. ((REPORTS ATTACHED - SEE 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 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 has been developed by planting trees all around the plant. MAP ATTACHED
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 programmes 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 had 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. temporary housing have been removed & permanent housing has been made for plant workers.

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*[Signature]*  
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**ECO CEMENTS LIMITED, BHABHUA, BIHAR**  
 Compliance report of Environment Clearance for Bhabhua Cement Plant  
 (For the Period from OCT. 2016 to MAR 2017)  
 Reference Letter from MOEF, New Delhi - F. No. J-11011/287/2010-IA-II (I) dated 31.10.2011

**Compliance of General Condition as per EC**

Sl.No.	Particulars	Status of Compliance
1	The project authorities must strictly adhere to the stipulations made by the Bihar State Pollution Control Board and the State Government.	We are strictly adhere to the stipulations made by the Bihar State Pollution Control Board and the State Government.
2	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.
3	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 <sup>th</sup> 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 conform to the load/mass based standards notified by this Ministry on 19 <sup>th</sup> May, 1993 and standards prescribed from time to time for the gaseous emissions from various process units.
4	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> 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 PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with our Pollution Consultant. 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.
5	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	No Industrial wastewater generated
6	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 so that the overall noise levels in and around the plant area shall be kept well within the standards (85 dBA). The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime). (REPORTS ATTACHED - SEE ANNEXURE- 6)
7	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.
8	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	A reservoir has been dug and all rain water has been directed to it for storage for lean season and the ground water table too is recharged.
9	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	We are complying with all the environmental protection measures and safeguards recommended in the EIA/EMP report. We have started undertaking socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.

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10	As proposed, Rs. 0.85 Crores and Rs 5.6 lakhs shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	We have spent Rs. 3.689 Crores towards capital cost and Rs.50.5 Lakhs has been earmarked towards recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided Will not, be diverted for any other purpose.
11	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.	We have created a website and a copy of the clearance letter have been put on the website.
12	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, SO <sub>2</sub> , NO <sub>x</sub> (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, SO <sub>2</sub> , NO <sub>x</sub> (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.
13	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 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.
14	The environmental statement for each financial year ending 31 <sup>st</sup> 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 submit the environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently. We will also put it on the website of the company after creating it alongwith the status of compliance of environmental conditions and will also send it to the respective Regional Office of the MOEF at Bhubaneswar by e-mail.
15	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bhubaneswar.	We have informed the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . We have advertised this within seven days from the date of issue of the clearance letter, in at least two local newspapers that are widely circulated in the region of which one is in the vernacular language of the locality concerned and a copy of the same was forwarded to the Regional office at Bhubaneswar.

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16	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	We have informed the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
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**ANNEXURE - 1**

Stack Emission Level Monitoring Report for the period OCT 2016 TO MARCH 2017								
All Values in mg/m <sup>3</sup>								
Sr. No.	Month & Year	Particulate Matter Emission ( mg/Nm <sup>3</sup> )						Standard Limit of Particulate Matter Emission
		Stack Attached with Bag House of Cement Mill	Stack Attached with Bag House of flyash unloader	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	Oct-16	46.9	41.8	34.6	46.1	41.8	36.4	50 mg/Nm <sup>3</sup>
2	Nov-16	43.1	48.6	46.4	44.8	47.6	39.7	
3	Dec-16	45.0	42.0	42.7	39.7	40.2	31.8	
4	Jan-17	42.3	44.6	39.4	37.1	44.8	37.8	
5	Feb-17	41.9	38.4	43.7	40.8	42.1	46.2	
6	Mar-17	44.2	35.0	37.3	36.4	48.4	43.7	
<b>Average Values</b>		<b>43.9</b>	<b>41.7</b>	<b>40.7</b>	<b>40.8</b>	<b>44.2</b>	<b>39.3</b>	

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**ANNEXURE -2**

**Ambient Air Quality Monitoring Report (All Values in µg/m<sup>3</sup>)**

Year: 2016 - 2017( OCT 2016 TO MARCH 2017.)

S. No.	Location	Near Main Gate			Near CCR			Near Canteen			Near Gypsum & Clinker Storage		
	Month	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>
1	Oct-16	98.9	13.8	19.4	99.1	17.8	21.0	83.4	14.3	26.8	90.6	22.4	25.2
2	Nov-16	98.8	13.2	18.7	106.1	11.0	15.5	93.6	19.1	28.6	96.2	10.5	14.6
3	Dec-16	91.4	17.8	21.5	89.0	16.5	18.4	83.0	10.5	17.5	78.7	19.1	28.6
4	Jan-17	92.0	21.6	35.1	86.0	14.9	21.1	81.4	12.2	16.5	92.3	15.0	13.5
5	Feb-17	97.6	28.8	51.0	93.4	19.9	30.6	94.5	16.3	24.0	96.1	22.9	29.2
6	Mar-17	94.2	25.2	38.0	89.7	17.4	25.9	88.0	14.3	20.2	94.3	18.9	31.1
Average		95.48	20.07	30.62	93.88	16.25	22.08	87.32	14.45	22.27	91.37	18.13	23.7

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**ANNEXURE - 3**

Fugitive Dust Emission Level Monitoring Report for the period OCT 2016 TO MARCH 2017						
Concentration of Total Dust (All Values in mg/m <sup>3</sup> )						
Sl.No.	Month	Mill Section Ground Floor	Mill Section 1st Floor	Mill Section 2nd Floor	South Side of Mill Section	North side of Mill Section
1	Oct-16	8.22	7.79	6.48	6.51	5.86
2	Nov-16	8.31	7.85	6.40	6.68	5.45
3	Dec-16	7.91	7.32	6.68	6.10	5.52
4	Jan-17	6.17	5.84	4.89	6.28	7.14
5	Feb-17	5.61	4.83	3.84	4.15	5.83
6	Mar-17	7.81	5.44	3.89	2.94	6.44
<b>Average</b>		7.34	6.51	5.36	5.44	6.04

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**ANNEXURE - 4**

**(I) WATER CONSUMPTION:**

Process	N.A. (As plant is based on dry process technology)
Cooling and Dust Suppression	309.89 KL
Domestic (6 months)	1332.00 KL

Name of Product	Process water consumption per unit of product Output	
	During Current Financial Year( 2015-16)	During Current Financial Year( 2016-17)
PPC Cement	0.00119 KL/ MT OF CEMENT PRODUCTION	0.00119 KL/ MT OF CEMENT PRODUCTION

**Note:**

\*We have 37 Workers in our factory.

\*Our current year production FROM OCT-2016 TO MARCH -2017 is 260414.338 MT.

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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 Current Financial Year (April 2016-SEP 2016)	During Current Financial Year (OCT 2016-MARCH 2017)
	We are having common authorization for Hazardous Waste Management & Handling for Clinker Grinding Unit (Cement 1.0 MTPA ,500 &125 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 April 2016-SEP 2016: 55 Ltrs Old Stock : 865 Ltrs Sale out : NIL Ltrs Balance : 920 Ltrs	Total Quantity Generated in OCT 2016-MARCH 2017: 55 Ltrs Old Stock : 920 Ltrs Sale out : NIL Ltrs Balance : 975 Ltrs
(b) From Pollution Control Facilities	N.A	N.A

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**ANNEXURE -6**

Ambient Noise level Monitoring Report From OCT 2016 TO MARCH 2017 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	Oct-16	71.3	73.4	68.2	69.7	70.1	75dB(A) in day & 70 dB(A) in night
2	Nov-16	69.1	70.8	65.0	66.2	67.3	
3	Dec-16	70.6	72.6	67.1	68.4	69.1	
4	Jan-17	72.6	70.1	69.7	66.8	65.0	
5	Feb-17	70.9	69.7	66.2	64.9	68.4	
6	Mar-17	73.6	71.2	70.6	67.8	69.7	
Average Values		71.4	71.3	67.8	67.3	68.3	

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