

ECL/ BIHAR/ESR/MOEF/FORM-V/R-2**DATED- 19.05.2013**

To,
The Chairman,
Bihar State Pollution Control Board,
Beltron Bhavan, 2nd Floor, Lal Bahadur Shastri Nagar,
Patna- 800023

Sub. : Environmental Statement Report (FORM-V) of M/s. ECO CEMENTS LTD
for the period of April 2012 to March, 2013.

Ref : Consent to operate letter No. P/T 3-129/05-T-8437 & P/T2- 26/12-T-8436

Dear Sir,

We are submitting herewith the yearly Environmental Statement Report of **Eco Cements Limited**, Plot No. 1644, Bheriya More, Kulharia, Durgauti, Bhabua, Bihar, Pin code- 821105 for the period of April 2012 to March, 2013
This is for your kind information please.

Thanking you.
Yours Faithfully,
For Eco Cements Ltd.



Rajiv Saini
(G.M. Projects)

Copy to.

1. The Chief Conservator of Forest(C),
Regional office (Central Region),
Ministry of Environment and Forests,
A-3, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.
Tel: 0674-2301248, 2301213; Fax: 0674-2302432
2. The Chairman, Central Pollution Control Board,
Parivesh Bhawan, 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 : HIG-195, Saileshree Vihar, Chandrasekharpur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in
: 1644, Beriya Road, Kulharia, Durgauti, Bhabua (Kamur), Bihar- 821105.

ENVIRONMENTAL STATEMENTS

FORM-V

(See Rule-14)

The Ministry of Environment & Forest its vide its notification dated 13th March,1992 directed all industries which need to have consent under Water (Prevention & Control of Pollution) Act,1974 and Air (Prevention & Control of Pollution) Act,1981 to file the environmental statement under Environmental Protection Act.1986 every year. This is to be filed for the period ending of March by September every year The format for the same is as follows:-

PART—A

1	Name and address of the Owner / Occupier of the Industry operation or process	Eco Cements Limited, Plot No. 1644, Bheriya More, Kulharia, Durgauti, Bhabua, Bihar, Pin code- 821105
2	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3	<u>Production Capacity</u> Cement* D. G. Set	1.0 MTPA 125 KVA & 500 KVA
4	Year of Establishment	2012
5	Date of the last Environmental Statement submitted.	N.A.

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PART— B

WATER AND RAW MATERIAL CONSUMPTION

(I) WATER CONSUMPTION:

Process	N.A. (As plant is based on dry process technology)
Cooling and Dust Suppression	60.3KL
Domestic	5110 KL

Name of Product	Process water consumption per unit of product Output	
	During Previous Financial Year(2011-12)	During Current Financial Year(2012-13)
PPC Cement	NIL(As plant was under construction)	.00123 KL/ MT OF CEMENT PRODUCTION

(II) RAW MATERIAL CONSUMPTION: (CEMENT PLANT)

Name of Raw Material	Name or Product	Consumption of Raw Material per unit of Output (Cement)	
		During Previous Financial year	During Current Financial year
Clinker	PPC Cement	NIL	0.655
Gypsum		NIL	0.047
Fly Ash		NIL	0.298

RAW MATERIAL CONSUMPTION: (D.G. SET)

Name of Raw Material	Name of Product	Consumption of Raw Material per unit of Output(Cement)	
		During Previous Financial Year	During Current Financial Year
Fuel/ Diesel	Power	D.G Set not operated so far. It is being used in emergency conditions only to operate office lights & computers	

(III) POWER CONSUMPTION (KWH/T OF CEMENT):

During Previous Financial Year	During Current Financial Year
NA(As plant is under construction)	53.41 KWH/T

(IV) TOTAL CEMENT PRODUCTION (MT):

During Previous Financial Year (2011-2012)	During Current Financial Year (2012-2013)
NA(As plant was under construction)	49026.61 MT

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PART-C

DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT

Pollutants	Quantity of Pollutants Discharged (Mass/Day)	Concentration of Pollutants in Discharges (Mass/day)	Percentage of variation from prescribed standards with reasons
(a)	Water	As the plant is being operated on dry process technology, no liquid effluent is generated from the plant, Waste water generated from office toilet and mess is disposed-off in a soak pit via septic tank	
(b)	Air	Please refer Annexures - I, II & III	

PART—D

HAZARDOUS WASTE

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

Hazardous Waste	Total Quantity (Ltrs)	
	During Previous Financial Year (April 2011- March 2012)	During Current Financial Year (April 2012-March 2013)
	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 2011-12 : NIL Ltrs Old Stock : NIL Ltrs Sale out : NIL Ltrs Balance : NIL Ltrs	Total Quantity Generated in 2012-13 : 280 Ltrs Old Stock : NIL Ltrs Sale out : NIL Ltrs Balance : 280 Ltrs
(b) From Pollution Control Facilities	N.A	N.A

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PART—E
SOLID WASTE

		Total Quantity	
		During Previous Financial Year	During Current Financial Year
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facility	Dust collected in the Bag Houses and Bag Filters is recycled / reused in process.	
(c)	1) Quantity rejected or re-utilized	100%	100%
	2) Sold	Nil	Nil
	3) Disposed	Nil	Nil

PART—F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both the categories of wastes:

Hazardous Wastes

Cement manufacturing is based on "Dry Process". No Hazardous waste is generated from the process except used oil which is drained from machineries / equipments. Used oil is sold to the authorized recyclers/ self used for lubrication.

Solid Wastes: - N.A.

PART—G

IMPACT OF THE POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON THE COST OF PRODUCTION

Clinker grinding unit is being operated on dry process technology, which is cost effective and environmentally clean technology. The stack emissions from the plant are controlled by equipment like bag houses and bag filters installed at various material transfer points to clean the process and arrest the fugitive emissions. The particulate matter collected in the pollution control equipment is recycled / reused in process and neutralizing the cost of operation of pollution control equipments and hence no cost impact on the production cost.

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PART—H

**ADDITIONAL MEASURES I INVESTMENTS PROPOSAL FOR ENVIRONMENT
PROTECTION INCLUDING ABATEMENT OF POLLUTION**

Green belt development and tree plantation is our ongoing process. Every year we are doing new tree plantation to increase the bio-diversity of the area. Up to March, 2013, we have covered 3.08 hectare, around 5438 trees with the survival rate of 92.66 % , this is around 33.12 % green area of the total plant area (9.3 hect.). Additional to this we have planted 1000 tree saplings at Nearby schools, outside plant area, both side of Bheria road to enhance the greenery and prosperity of the area.

PART—I

**ANY OTHER PARTICULARS FOR IMPROVING THE OUALITY OF
ENVIRONMENT.**

1. We have full-fledged Environment Department with three separate cells, one for monitoring, one for maintenance of pollution control equipment and one for green belt development.
2. Monitoring of stack emission, ambient air quality & ambient noise and water quality is being monitored regularly.
3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
4. Civil and Personal & Administration departments taking care for of House- keeping.
5. Horticulture section is taking care of tree plantation and green belt development. Every year we are growing new tree plantation.

On support of above, we are enclosing herewith following Annexure:-

- Annexure-I** : Ambient Air Quality Monitoring Report for the year 2012-13
Annexure-II : Stack Emission Level Monitoring Report for the year 2012-13
Annexure-III : Ambient Noise level Monitoring Report for the year 2012-13

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Annexure-I

Ambient Air Quality Monitoring Report for the year 2012-13

- Ambient Air Quality Monitoring Report (All Values in ug/m3)																	
Year: 2012-2013																	
S. No.	Location ---->	Near Main Gate				Near CCR				Near Canteen				Near Gypsum & Clinker Storage			
		PM _{2.5}	PM ₁₀	SO ₂	NO ₃	PM _{2.5}	PM ₁₀	SO ₂	N O ₃	PM _{2.5}	PM ₁₀	SO ₂	NO ₃	PM _{2.5}	PM ₁₀	SO ₂	NO ₃
1	April, 2012	N / A - PLANT WAS UNDER CONSTRUCTION															
2	May, 2012																
3	June, 2012																
4	July, 2012		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., 2012	-	73.2	19.3	25.2	-	88	18.1	20	-	79.5	16	20.2	-	77	15.6	20.3
6	Sept, 2012	-	72.2	21.2	27	-	87	19.5	24.2	-	70.6	18	21.4	-	74.2	14.5	21.5
7	Oct., 2012	-	76.1	19.3	23.4	-	80	19.1	22.5	-	69.7	15.4	19.3	-	76.3	17.9	20.7
8	Nov., 2012	-	72.8	21.2	22.2	-	75.7	18.4	19.8	-	67	16.5	21.2	-	72.5	16.4	18.3
9	Dec., 2012	-	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., 2013	-	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., 2013	34.9	67.1	10.5	11.5	37	71.2	9.3	10	31.5	60.6	9	9.5	33	63.4	7	10.1
12	Mar., 2013	33.2	70.1	11.5	10.3	36.1	70.9	10.9	12.3	30.7	67.3	11.2	9.9	32.1	67.2	10.2	9.3
Average			72.5	16.9	20.1	8.12	69.7	16	18.9	6.91	70.7	15.7	18	7.23	72.5	14.5	17.8

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Stack Emission Level Monitoring Report for the year 2012-13

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 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	April, 2012	N/A - Under Construction						50 mg/Nm ³
2	May, 2012							
3	June, 2012							
4	July, 2012	29.1	28.4	28.4	NOT INSTALLED	NOT INSTALLED	NOT INSTALLED	
5	Aug., 2012	21	28	25	NOT INSTALLED	NOT INSTALLED	NOT INSTALLED	
6	Sept, 2012	29.3	28.1	27.1	NOT INSTALLED	NOT INSTALLED	NOT INSTALLED	
7	Oct., 2012	28.4	27.1	25.4	30.4	NOT INSTALLED	32.5	
8	Nov., 2012	29.1	26.1	28.2	29.3	NOT INSTALLED	33.5	
9	Dec., 2012	28.1	27.1	29.1	28.4	NOT INSTALLED	34.4	
10	Jan., 2013	27.1	25.4	28.4	29.4	NOT INSTALLED	31.1	
11	Feb., 2013	36.4	42.8	34.6	28.6	28.4	33.6	
12	Mar., 2013	26.1	28.2	27.7	28.1	32.7	32.7	
Average Values		29.33	29.13	28.33	29.16	30.55	33.52	

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Annexure-III

Ambient Noise level Monitoring Report for the year 2012-13 (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, 2012	N/A - Under Construction					75 dB(A) in day & 70 dB(A) in night
2	May, 2012						
3	June, 2012						
4	July, 2012	62.8	63.7	59.3	60.2	58.4	
5	Aug., 2012	62.8	62.8	63.7	59.3	61.3	
6	Sept. 2012	60.2	58.4	62.8	63.7	59.3	
7	Oct. 2012	61.7	66.3	60	60	60	
8	Nov., 2012*	60.7	67.3	63.4	63.4	63.4	
9	Dec., 2012	64.6	69.1	60.2	58.4	58.8	
10	Jan., 2013	65.3	64.0	62.5	62.5	62.5	
11	Feb., 2013	62.8	63.7	59.3	60.2	58.4	
12	Mar., 2013	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

ECO CEMENTS LTD.


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Regd. Office :
6D Extn. : (Chatterjee Lane)
Gardanibagh
PATNA - 800 001 (Bihar)



Laboratory Address :-
01st FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)



SHIVA TEST HOUSE

Tel. : 0612 - 2247538/ 2240752 : TeleFax : 0612 - 2590705
E.mail. : sthpatna1@yahoo.co.in

IAS 4017



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BY DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

TEST REPORT

Ref. No. <i>ECL/TR/12-13/487(g)</i> Dt: <i>11.02.2013</i> Your Work Order No. <i>NIL</i> Dt: <i>28.01.2013</i>						
[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati ; Dist.: Bhabua (Kaimur)					
[b] Report to be submitted to	Director					
[c] Details of Sample	Monitoring of Ambient Air Quality					
[d] Sample Collected by	SHIVA TEST HOUSE on 02.02.13					
[e] No. & Type of Container	Filter Paper ; Glass Impinger					
[f] Items required to be tested	As per request					
[g] Whether any specific Method of Test has been suggested by the party	No					
[h] Date of receiving the sample	03.02.13					
Parameters	Method of Test	Sampling Station				Limit as NAAQS Nov.'2009
		Near Main Gate	Near CCR	Near Caneetrn	Near Gypsum Storage Area	
1. Particulate Matter (PM ₁₀), µg / m ³	IS 5182 (Part-23)	70.5	79.4	68.7	66.3	100 µg / m ³
		66.6	73.3	61.0	63.5	
		64.4	60.9	52.0	60.5	
2. Particulate Matter (PM _{2.5}), µg / m ³	CPCB	38.6	41.3	35.7	34.4	60 µg / m ³
		34.7	38.1	31.7	33.1	
		33.5	31.7	27.0	31.5	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	11.5	10.2	10.0	8.5	80 µg / m ³
		12.6	11.0	10.7	8.0	
		10.6	9.3	8.8	6.9	
		9.8	8.5	8.0	6.8	
		9.4	8.9	9.3	6.2	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	8.9	8.1	7.3	5.4	80 µg / m ³
		12.4	9.8	9.9	10.8	
		13.3	11.9	10.5	11.5	
		11.5	11.0	9.4	10.3	
		10.9	9.5	9.9	9.3	
Average Value						
PM ₁₀		67.1	71.2	60.6	63.4	
PM _{2.5}		34.9	37.0	31.5	33.0	
SO ₂		10.5	9.3	9.0	7.0	
NO ₂		11.5	10.0	9.5	10.1	



[Signature]
Dy. Quality Manager

- N.B. 1. This Report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to the invoiced Amount.



SHIVA TEST HOUSE

Tel. : 0612 - 2247538/ 2240752 ; TeleFax : 0612 - 2590705
E.mail. : sthpatna1@yahoo.co.in

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BY DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

TEST REPORT

Ref. No. <i>ECL/TR/12-13/487(h)</i> Dt : <i>11.02.2013</i> Your Work Order No. <i>NIL</i> Dt : <i>28.01.2013</i>					
[a]	Name and address of the Customer		ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)		
[b]	Report to be submitted to		Director		
[c]	Details of Sample		Monitoring of Fugitive Emissions in Work Zone Area		
[d]	Monitored by		SHIVA TEST HOUSE on 02.02.13		
[e]	No. and Type of Container		Filter Paper		
[f]	Items required to be tested		As per request		
[g]	Whether any specific Method of Test has been suggested by the party		No		
[h]	Date of receiving the sample		03.02.13		
S. N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc ⁿ	Concentration of Respirable Dust	Permissible TWA Conc ⁿ
		(mg/M ³)	(mg/M ³)	(mg/M ³)	(mg/M ³)
1	Mill Section Ground Floor	5.1	10.00	1.3	5.00
2	Mill Section 01 st Floor	4.4	10.00	1.4	5.00
3	Mill Section 02 nd Floor	3.0	10.00	2.0	5.00
4	South side of Mill Section	5.6	10.00	1.7	5.00
5	North side of Mill Section	4.2	10.00	1.1	5.00
*Permissible Time Weighted Average (TWA) Conc ⁿ based on Silica Content as per Factories Act'1948 Second Schedule					



Dy. Quality Manager

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TEST REPORT

Ref. No. <i>ECL/TR/12-13/487(a)</i> Dt: <i>11.02.2013</i> Your Work Order No. <i>NIL</i> Dt: <i>28.01.2013</i>			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission of 125 KVA DG Set	
[d]	Sample Collected by	SHIVA TEST HOUSE on 02.02.13	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	03.02.13	
Parameters		Method of Test	Results
1.	Stack Connected to		125 KVA DG Set
2.	Height of Stack (as reported)		2.1 m.
3.	Dia of Stack at Top (as reported)		0.13 m.
4.	Draft		Natural
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		19.0
7.	Flue Gas Temperature, °C		112.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	7.1
9.	Sampling Point		Top of Exhaust
		Concentration (mg / NM³)	Limit as per E (P) Rules
10.	Particulate Matter (P.M.)	IS 11255 (Part-1)	33.6 75.00 mg / NM ³
11.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	58.4 Not Specified
12.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	184.2 710.00 mg / NM ³



[Signature]
Dy. Quality Manager

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TEST REPORT

Ref. No. <i>ECL/TR/12-13/487(b)</i> Dt : <i>11.02.2013</i> Your Work Order No. <i>NIL</i> Dt : <i>28.01.2013</i>			
[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kularia Durgawati Dist.: Bhabua (Kaimur)		
[b] Report to be submitted to	Director		
[c] Details of Sample	Monitoring of Stack Emission of 500 KVA DG Set		
[d] Sample Collected by	SHIVA TEST HOUSE on 02.02.13		
[e] No. & Type of Container	Thimble & Glass Impinger		
[f] Items required to be tested	As per request		
[g] Whether any specific Method of Test has been suggested by the party	No		
[h] Date of receiving the sample	03.02.13		
Parameters	Method of Test	Results	
1. Stack Connected to		500 KVA DG Set	
2. Height of Stack (as reported)		3.0 m.	
3. Dia of Stack at Top (as reported)		0.2 m.	
4. Draft		Natural	
5. Material of Construction		M.S.	
6. Ambient Temperature, °C		19.0	
7. Flue Gas Temperature, °C		118.0	
8. Velocity, m/sec.	IS 11255 (Part-3)	6.2	
9. Sampling Point		Top of Exhaust	
		Concentration (mg / NM³)	Limit as per E (P) Rules
10. Particulate Matter (P.M.)	IS 11255 (Part-1)	28.4	75.00 mg / NM ³
11. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	62.0	Not Specified
12. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	198.7	710.00 mg / NM ³



[Signature]
Dy. Quality Manager

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TEST REPORT

Ref. No. <i>ECL/TR/12-13/487(c)</i> Dt : <i>11.02.2013</i> Your Work Order No. <i>NIL</i> Dt : <i>28.01.2013</i>				
[a] Name and address of the Customer	ECO Cement Ltd. VIII.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)			
[b] Report to be submitted to	Director			
[c] Details of Sample	Monitoring of Stack Emission			
[d] Sample Collected by	SHIVA TEST HOUSE on 02.02.13			
[e] No. & Type of Container	Thimble & Glass Impinger			
[f] Items required to be tested	As per request			
[g] Whether any specific Method of Test has been suggested by the party	No			
[h] Date of receiving the sample	03.02.13			
Parameters	Method of Test	Results		
1. Stack Connected to		Bag Filter at Clinker Unloading Area		
2. Height of Stack (as reported)		30 m.		
3. Dia of Stack at Top (as reported)		0.75 m.		
4. Draft		ID Fan		
5. Material of Construction		M.S.		
6. Ambient Temperature, °C		20.0		
7. Flue Gas Temperature, °C		49.0		
8. Velocity, m/sec.		IS 11255 (Part-3)	6.3	
9. Sampling Point			11 m.	
		Concentration (mg / NM³)	Limit as per E (P) Rules	
10. Particulate Matter (P.M.)	IS 11255 (Part-1)	34.6	150.00 mg / NM ³	
11. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	Not Specified	
12. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	11.2	Not Specified	



[Signature]
Dy. Quality Manager

- N.B. 1. This Report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to the invoiced Amount.



SHIVA TEST HOUSE

Tel. : 0612 - 2247538/ 2240752 ; TeleFax : 0612 - 2590705
E.mail.: sthpatna1@yahoo.co.in

ISO 18001:2007



OHSAS Certified

RECOGNISED AS ENVIRONMENTAL LABORATORY BY CENTRAL GOVT. UNDER ENVIRONMENT (PROTECTION) ACT 1986,
BY DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

TEST REPORT

Ref. No. <i>ECL/TR/12-13/487(d)</i> Dt: <i>11.02.2013</i> Your Work Order No. <i>NIL</i> Dt: <i>28.01.2013</i>			
[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kuhlaria Durgawati Dist.: Bhabua (Kaimur)		
[b] Report to be submitted to	Director		
[c] Details of Sample	Monitoring of Stack Emission		
[d] Sample Collected by	SHIVA TEST HOUSE on 02.02.13		
[e] No. & Type of Container	Thimble & Glass Impinger		
[f] Items required to be tested	As per request		
[g] Whether any specific Method of Test has been suggested by the party	No		
[h] Date of receiving the sample	03.02.13		
	Parameters	Method of Test	Results
1.	Stack Connected to		Bag Filter at Gypsum Unloading Area
2.	Height of Stack (as reported)		30 m.
3.	Dia of Stack at Top (as reported)		0.6 m.
4.	Draft		ID Fan
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		20.0
7.	Flue Gas Temperature, °C		51.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	5.6
9.	Sampling Point		9 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
10.	Particulate Matter (P.M.)	IS 11255 (Part-1)	28.6 150.00 mg / NM ³
11.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable Not Specified
12.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	10.2 Not Specified



[Signature]
Dy. Quality Manager

- N.B.**
1. This Report applies only to sample tested as above.
 2. Total Liability of our Laboratory is limited to the invoiced Amount.



SHIVA TEST HOUSE

Tel. : 0612 - 2247538/ 2240752 ; TeleFax : 0612 - 2590705
E.mail.: sthpatna1@yahoo.co.in

ISO 9001



ISO 18001:2007
OHSAS Certified

RECOGNISED AS ENVIRONMENTAL LABORATORY BY CENTRAL GOVT. UNDER ENVIRONMENT (PROTECTION) ACT 1986,
BY DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

TEST REPORT

Ref. No. <i>ECL/TR/12-13/487(e)</i> Dt : <i>11.02.2013</i> Your Work Order No. <i>NIL</i> Dt : <i>28.01.2013</i>				
[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)			
[b] Report to be submitted to	Director			
[c] Details of Sample	Monitoring of Stack Emission			
[d] Sample Collected by	SHIVA TEST HOUSE on <i>02.02.13</i>			
[e] No. & Type of Container	Thimble & Glass Impinger			
[f] Items required to be tested	As per request			
[g] Whether any specific Method of Test has been suggested by the party	No			
[h] Date of receiving the sample	<i>03.02.13</i>			
Parameters	Method of Test	Results		
1. Stack Connected to		Bag Filter at Fly Ash Unloading Area		
2. Height of Stack (as reported)		30 m.		
3. Dia of Stack at Top (as reported)		1.05 m.		
4. Draft		ID Fan		
5. Material of Construction		M.S.		
6. Ambient Temperature, °C		19.0		
7. Flue Gas Temperature, °C		46.0		
8. Velocity, m/sec.		IS 11255 (Part-3)	7.1	
9. Sampling Point			14 m.	
		Concentration (mg / NM³)	Limit as per E (P) Rules	
10. Particulate Matter (P.M.)	IS 11255 (Part-1)	42.8	150.00 mg / NM ³	
11. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	Not Specified	
12. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	13.6	Not Specified	



[Signature]
Dy. Quality Manager

- N.B.** 1. This Report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to the invoiced Amount



SHIVA TEST HOUSE

Tel. : 0612 - 2247538/ 2240752 : TeleFax : 0612 - 2590705
E.mail.: sthpatna1@yahoo.co.in



ISO 18001:2007
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TEST REPORT

Ref. No. <i>ECI/TR/12-13/487(f)</i> Dt: <i>11.02.2013</i> Your Work Order No. <i>NIL</i> Dt: <i>28.01.2013</i>				
[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)			
[b] Report to be submitted to	Director			
[c] Details of Sample	Monitoring of Stack Emission			
[d] Sample Collected by	SHIVA TEST HOUSE on <i>02.02.13</i>			
[e] No. & Type of Container	Thimble & Glass Impinger			
[f] Items required to be tested	As per request			
[g] Whether any specific Method of Test has been suggested by the party	No			
[h] Date of receiving the sample	<i>03.02.13</i>			
Parameters	Method of Test	Results		
1. Stack Connected to		Bag Filter attached Cement Mill Vent		
2. Height of Stack (as reported)		33 m.		
3. Dia of Stack at Top (as reported)		1.2 m.		
4. Draft		ID Fan		
5. Material of Construction		M.S.		
6. Ambient Temperature, °C		19.0		
7. Flue Gas Temperature, °C		45.0		
8. Velocity, m/sec.		IS 11255 (Part-3)	6.0	
9. Sampling Point			21 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules	
10. Particulate Matter (P.M.)	IS 11255 (Part-1)	36.4	150.00 mg / NM ³	
11. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	Not Specified	
12. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	10.8	Not Specified	



[Signature]
Dy. Quality Manager

- N.B. 1. This Report applies only to sample tested as above.
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TEST REPORT

DATE – 22.03.13

[a] Name and address	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia, Durgawati Dist.: Bhabua (Kaimur)	
[b] Report to be submitted to	Director	
[c] Details of Sample	Monitoring of Ambient Noise Level	
[d] Monitored by	ECO Cement Ltd. on 22.03.13	
Sampling Location	Time Weighted Average (TWA) of Noise Level in dB(A)	
1. Near Main Gate	62.5	
2. Near CCR	61.2	
3. Near Canteen	59.9	
4. Near Gypsum Storage Area	60.3	
5. Near Clinker Storage Area	61.4	
N.B.:	The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.	

ECO CEMENTS LTD.

 Auth. Signatory

ECO CEMENTS LIMITED

Corp. Office : 72, Jawaharnagar Extn, Bhelupur, Varanasi-221010. Telefax – 0542-2277074
 Zonal Office : HIG-195, Saileshree Vihar, Chandrasekharpur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in
 : 1644, Beriya Road, Kulharia, Durguati, Bhabua (Kamur), Bihar- 821105.



RAYTHEON TECHNOLOGIES

"GOKULAM" No.41, Teachers' Colony, Vettuvankeni, Chennai - 600 041.
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e-mail : hiraytech@hotmail.com

RT/ECL/CC/602/13

18th Mar., 2013

CALIBRATION CERTIFICATE

1. Calibration Requested by :: M/s. Eco Cements Limited,
Plot No 1644, Bheriya More, Kulharia,
Durgam, Bhabhua, Bihar - 821 105
2. Description of Item :: Environmental Noise Pollution Monitor.
Make : Raytheon Technologies, Chennai.
Model : RT-5001
SI. No. : (120410892)
3. **Date of Calibration** :: **18.03.2013.**

4. Calibration Results -

Sl No	Standard Noise Source	RT-5001
1	50.0db.	50.5db
2	60.0 db	60.4db.
3	75.0 db	75.2db
4	90.0 db.	90.1db.

@ Standard Noise Source : Standard Noise Generator duly calibrated to National Standards - Reference Report
No. : ETDC(CN) 2012 43621.

5. Temperature & Humidity during calibration :: 24 C & 51% RH

6. **Next Calibration due on** :: **17.03.2014.**

7. Remarks :: Accuracy is found to be within approved limits.

8. Authorised Signatory

Note: * It is mandatory to re-calibrate our Noise Meter once in twelve months as per ISO norms. Next Calibration due date is mentioned above.

* Please mention the above Reference No. for your next re-calibration.