



To,
Ministry of Environment and Forests,
A-3, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.
Tel: 0674-2301248, 2301213; Fax: 0674-2302432

DATED 22.10.2013

Our Ref : ECO/BIHAR/EMR/22102013/4

Sub : Environmental Monitoring Results of M/s. Eco Cements Limited, Bhabhua for the period of APRIL 2013 TO SEP.2013

Dear Sir,

This refers to above mentioned subject. In this matter, please find attached Environmental Monitoring results of Ambient Air Quality, Stack Emission and Fugitive Emission of M/s. Eco Cements Limited, Bhabhua for the period of APRIL 2013 TO SEP.2013

Kindly acknowledge the receipt and oblige.

Thanking you in anticipation,
For Eco Cements Limited

Rajiv Saini
G.M. Projects

Encl.

1. Environmental Monitoring results of M/s. Eco Cements Limited, Bhabhua for the period of APRIL 2013 TO SEP.2013

Copy to.

1. The Chairman,
Bihar State Pollution Control Board,
Beltron Bhavan, 2nd Floor, Lal Bahadur Shastri Nagar,
Patna- 800023
2. The Chairman, Central Pollution Control Board,
Parivesh Bhawan, CBD-cum-Office Complex,
East Arjun Nagar, Delhi - 110 032

ECO CEMENTS LIMITED

REGD. OFF.: 1-E, 1st FLOOR, ASHUTOSH APARTMENT, 295/2, GT ROAD, HOWRAH -700013
FACTORY: PLOT NO. 1644, BHERIYA ROAD, KULHARIA, DURGAUTI, BHABHUA, BIHAR
ZONAL OFF: 72, JAWAHAR NAGAR EXTN. BHELUPUR, VARANASI-221010 TEL : 0542-2277074

Ambient Air Quality Monitoring Report (All Values in ug/m3)													
Year: 2013 - 2014 (APRIL 2013 TO SEP 2013.)													
S. No.	Location ---->	Near Main Gate			Near CCR			Near Canteen			Near Gypsum & Clinker Storage		
	Month	PM ₁₀	SO ₂	NO ₂	PM ₁₀	SO ₂	NO ₂	PM ₁₀	SO ₂	NO ₂	PM ₁₀	SO ₂	NO ₂
1	Apr-13	67.2	18.3	17.1	70.3	16.4	20.6	73.1	12.3	14.4	69.5	9.9	13.4
2	May-13	64	12.3	14.1	67.8	11.6	12.2	57.7	10.6	11.6	60.4	8.9	12.3
3	Jun-13	71.2	16.7	21.6	77.1	17.2	19.2	69.9	15.2	18.3	71.3	14	18.4
4	Jul-13	69.5	9.9	13.4	75.1	15.2	19.2	70.3	16.4	20.6	75.7	17	21.2
5	Aug-13	60.4	8.9	12.3	69.2	10.1	11	67.8	11.6	12.2	71.2	9.3	10
6	Sep-13	71.3	14.1	18.4	70.1	9.8	14.1	77.1	17.2	19.2	70.1	11	12.3
Average		67.27	13.4	16.2	71.6	13.4	16.1	69.3	13.9	16.1	69.7	11.6	14.6

ECO CEMENTS LTD.
Auth. Signatory

ECO CEMENTS LIMITED

REGD. OFF.: 1-E, 1st FLOOR, ASHUTOSH APARTMENT, 295/2, GT ROAD, HOWRAH -700013
FACTORY: PLOT NO. 1644, BHERIYA ROAD, KULHARIA, DURGAUTI, BHABHUA, BIHAR
ZONAL OFF: 72, JAWAHAR NAGAR EXTN. BHELUPUR. VARANASI-221010 TEL : 0542 2272074

TEST REPORT

Ref. No. ECO/P- SE/13/101

Dated:18.04.2013

(a) Name and address

ECO Cement Ltd.
Vill.: mahmoodganj.
At. Kulharia,Durgawati.
Dist: Bhabhua

(b) Report to be submitted to

Director

(c) Details of Sample

Monitoring of Ambient Air Quality.

(d) No.& Type of container

Filter Paper; Glass Impinger

(e) Date of Sample

Sampling Station

Parameters	Method of Test	Near Main Gate	Near CCR	Near Canteen	Near Gypsum Storage	Limit as NAAQS Nov.'2009
1. Particulate Matter (PM ₁₀), µg/m ³	IS 5182 (Part-23)	65.4,68.2,68.0	69.2,73.6,68.1.	74.4,71.2,73.7.	67.2,72.6,68.7.	100 µg/m ³
2. Sulphur Dioxide as SO ₂ µg/m ³	IS 5182 (Part-2)	17.9,18.7,18.3.	17.2,16.1,15.9	11.6,12.4,12.9.	10.2,9.6,9.9.	80 µg/m ³
3. Nitrogen Dioxide as NO ₂ µg/m ³	IS 5182 (Part-2)	17.8,16.5,17.0.	19.8,21.1,20.9	14.8,13.9,14.5.	14.2,13.9,15.1	80 µg/m ³
Average Vale						
PM ₁₀		67.2	70.3	73.1	69.5	
SO ₂		18.3	16.4	12.3	9.9	
NO ₂		17.1	20.6	14.4	13.4	

ECO CEMENTS LTD.

Auth. Signatory

ECO CEMENTS LIMITED

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

Zonal Office : HIG-195, SaileshreeVihar, Chandrasekharpur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in

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



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/13/121(f)</i> Dt : <i>14.06.2013</i> Your Work Order No. <i>NIL</i> Dt : <i>10.05.2013</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 <i>18.05.13</i>				
[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	<i>19.05.13</i>				
Parameters	Method of Test	Sampling Station				Limit as NAAQS Nov. '2009
		Near Main Gate	Near CCR	Near Caneetn	Near Gypsum Storage Area	
1. Particulate Matter (PM ₁₀), µg / m ³	IS 5182 (Part-23)	67.1	75.6	65.4	63.1	100 µg / m ³
		63.4	69.8	58.1	60.5	
		61.3	58.0	49.5	57.6	
2. Particulate Matter (PM _{2.5}), µg / m ³	CPCB	34.9	39.3	34.0	32.8	60 µg / m ³
		33.0	36.3	30.2	31.5	
		31.9	30.2	25.7	30.0	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	13.5	12.7	11.8	10.9	80 µg / m ³
		14.8	13.7	12.6	10.2	
		12.5	11.6	10.4	8.9	
		11.5	10.6	9.4	8.7	
		11.0	11.1	10.9	7.9	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	10.5	10.1	8.6	6.9	80 µg / m ³
		15.1	12.0	12.1	13.2	
		16.2	14.5	12.8	14.0	
		14.0	13.4	11.5	12.5	
		13.3	11.6	12.1	11.3	
Average Value						
PM ₁₀		64.0	67.8	57.7	60.4	
PM _{2.5}		33.2	35.3	30.0	31.4	
SO ₂		12.3	11.6	10.6	8.9	
NO ₂		14.1	12.2	11.6	12.3	



[Signature]
Dy. Quality Manager



TEST REPORT						
Ref. No. ECO/P- AAQ/13/103			Dated:16.06.2013			
(a) Name and address			ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua			
(b) Report to be submitted to			Director			
(c) Details of Sample			Monitoring of Ambient Air Quality.			
(d) No.& Type of container			Filter Paper; Glass Impinger			
(e) Date of Sample						
Sampling Station						
Parameters	Method of Test	Near Main Gate	Near CCR	Near Canteen	Near Gypsum Storage	Limit as NAAQS Nov.'2009
1. Particulate Matter (PM ₁₀), $\mu\text{g}/\text{m}^3$	IS 5182 (Part-23)	70.6,71.6,71.4.	78.2,77.9,75.2.	69.4,70.7,69.6	70.2,71.3,72.4	100 $\mu\text{g}/\text{m}^3$
2. Sulphur Dixide as SO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	17.2,16.4,16.5.	18.0,17.3,16.3	14.6,15.8,15.2	14.6,13.7,14.0.	80 $\mu\text{g}/\text{m}^3$
3. Nitrogen Dixide as NO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	20.9,22.2,21.7	18.7,19.7,19.2.	18.0,19.2,17.7	17.9,19.2,18.1	80 $\mu\text{g}/\text{m}^3$
Average Vale						
PM ₁₀		71.2	77.1	69.9	71.3	
SO ₂		16.7	17.2	15.2	14.1	
NO ₂		21.6	19.2	18.3	18.4	

ECO CEMENTS LTD.
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 Auth. Signatory

ECO CEMENTS LIMITED

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

Zonal Office : HIG-195, SaileshreeVihar, Chandrasekharpur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in



TEST REPORT						
Ref. No. ECO/P- AAQ/13/104			Dated:19.07.2013			
(a) Name and address			ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia, Durgawati. Dist.: Bhabhua			
(b) Report to be submitted to			Director			
(c) Details of Sample			Monitoring of Ambient Air Quality.			
(d) No.& Type of container			Filter Paper; Glass Impinger			
(e) Date of Sample						
Sampling Station						
Parameters	Method of Test	Near Main Gate	Near CCR	Near Canteen	Near Gypsum Storage	Limit as NAAQS Nov.'2009
1. Particulate Matter (PM ₁₀), $\mu\text{g}/\text{m}^3$	IS 5182 (Part-23)	70.3,69.4,68.8	77.4,74.3,73.6	69.8,70.2,70.9	77.6,74.3,75.2	100 $\mu\text{g}/\text{m}^3$
2. Sulphur Dioxide as SO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	10.3,9.4,10.0	14.6,15.3,15.7	17.2,15.9,16.1	16.1,15.6,17.8	80 $\mu\text{g}/\text{m}^3$
3. Nitrogen Dioxide as NO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	14.1,12.5,13.6	18.8,20.6,18.2	20.1,21.3,20.4	21.7,20.9,21.0	80 $\mu\text{g}/\text{m}^3$
Average Value						
PM ₁₀		69.5	75.1	70.3	75.7	
SO ₂		9.9	15.2	16.4	16.5	
NO ₂		13.4	19.2	20.6	21.2	

ECO CEMENTS LTD.
2
Area Engineer

ECO CEMENTS LIMITED

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

Zonal Office : HIG-195, SaileshreeVihar, Chandrasekharpur, Bhubaneswar, Orissa. Email - enquiry@ecocem.in

TEST REPORT						
Ref. No. ECO/P- AAQ/13/105				Dated:17.08.2013		
(a) Name and address				ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b) Report to be submitted to				Director		
(c) Details of Sample				Monitoring of Ambient Air Quality.		
(d) No.& Type of container				Filter Paper; Glass Impinger		
(e) Date of Sample						
Sampling Station						
Parameters	Method of Test	Near Main Gate	Near CCR	Near Canteen	Near Gypsum Storage	Limit as NAAQS Nov.'2009
1. Particulate Matter (PM ₁₀), $\mu\text{g}/\text{m}^3$	IS 5182 (Part-23)	59.7,61.0,60.5	70.6,68.2,68.8	70.6,65.4,67.4	70.7,72.4,70.5	100 $\mu\text{g}/\text{m}^3$
2. Sulphur Dixide as SO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	9.1,7.9,9.7	9.6,11.5,9.2	12.5,10.9,11.4	10.6,8.9,8.4	80 $\mu\text{g}/\text{m}^3$
3. Nitrogen Dixide as NO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	12.9,11.7	12.2,10.7,10.1	13.0,11.5,12.1	9.4,10.7,9.9	80 $\mu\text{g}/\text{m}^3$
Average Vale						
PM ₁₀		60.4	69.2	67.8	71.2	
SO ₂		8.9	10.1	11.6	9.3	
NO ₂		12.3	11	12.2	10	

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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

TEST REPORT

Ref. No. ECO/P- AAQ/13/106

Dated:20.09.2013

(a) Name and address

ECO Cement Ltd.
Vill.: mahmoodganj.
At. Kulharia,Durgawati.
Bhabhua

Dist.:

(b) Report to be submitted to

Director

(c) Details of Sample

Monitoring of Ambient Air Quality.

(d) No.& Type of container

Filter Paper; Glass Impinger

(e) Date of Sample

20.09.2013

Sampling Station

Parameters	Method of Test	Near Main Gate	Near CCR	Near Canteen	Near Gypsum Storage	Limit as NAAQS Nov.'2009
1. Particulate Matter (PM ₁₀), µg/m ³	IS 5182 (Part-23)	72.2,70.6,71.1	69.6,71.4,69.3	75.4,79.2,76.7	71.3,68.5,70.5	100 µg/m ³
2. Sulphur Dixide as SO ₂ µg/m ³	IS 5182 (Part-2)	14.9,13.6,13.8	10.6,9.2,9.6	18.6,15.4,17.6	11.6,9.2,11.9	80 µg/m ³
3. Nitrogen Dixide as NO ₂ µg/m ³	IS 5182 (Part-2)	20.6,17.5,17.1	15.6,13.9,12.8	21.2,18.4,18.0	13.5,12.6,10.8	80 µg/m ³
Average Vale						
PM ₁₀		71.3	70.1	77.1	70.1	
SO ₂		14.1	9.8	17.2	10.9	
NO ₂		18.4	14.1	19.2	12.3	

ECO CEMENTS LTD.

[Signature]
 Auth. Signatory

Stack Emission Level Monitoring Report for the period APRIL 2013 TO SEP 2013 All Values in mg/m ³								
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	Apr-13	27.3	28.5	27.1	30.4	29.6	35.1	50 mg/Nm ³
2	May-13	36.4	42.8	34.6	28.6	28.4	33.6	
3	Jun-13	28.6	28.4	33.6	29.1	29.9	31.3	
4	Jul-13	28.1	32.7	32.7	23.4	31.5	30.3	
5	Aug-13	34.1	28.5	35.3	24.5	37.4	35.3	
6	Sep-13	30.1	31	34.2	28	29.7	35	
Average Values		30.77	31.98	32.92	27.33	31.08	33.43	

ECO CEMENTS LTD.
Auth. Signatory

ECO CEMENTS LIMITED

REGD. OFF.: 1-E, 1ST FLOOR, ASHUTOSH APARTMENT, 295/2, GT ROAD, HOWRAH -700013
FACTORY: PLOT NO. 1644, BHERIYA ROAD, KULHARIA, DURGAUTI, BHABHUA, BIHAR
ZONAL OFF: 72, JAWAHAR NAGAR EXTN. BHELUPUR, VARANASI-221010 TEL.: 0542-2277074



TEST REPORT

Ref. No. ECO/P- SE/13/122		Dated:19.04.2013		
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b) Report to be submitted to		Director		
(c) Details of Sample		Monitoring of Stack Emission .		
(d) No.& Type of container		Thimble & Glass Impinger		
(e) Date of Sample				
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		I D Fan		
5 Material of Construction		M.S.		
6 Ambient Temperature, °C		24		
7 Fuel Gas Temperature, °C		118		
8 Velocity,m/sec		IS 11255 (Part-3)	6.0	
9 Sampling Point			21 m.	
		Contcentration. (mg / NM ³)	Limit as per E(P) Rules	
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	27.3	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)	10.1	Not specified	

ECO CEMENTS LTD.

 Auth. Signatory

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



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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/13/121(e)</i> Dt : 14.06.2013 Your Work Order No. <i>NIL</i> Dt : 10.05.2013				
[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 18.05.13		
[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	19.05.13		
	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		37.0	
7.	Flue Gas Temperature, °C		42.0	
8.	Velocity, m/sec.		IS 11255 (Part-3)	7.2
9.	Sampling Point			21 m.
			Concentration (mg / NM³)	
			Limit as per E (P) Rules	
10.	Particulate Matter (P.M.)	IS 11255 (Part-1)	42.6 150.00 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)	13.4 Not Specified	



[Signature]
Dy. Quality Manager

TEST REPORT

Ref. No. ECO/P- SE/13/123		Dated:22.06.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring of Stack Emission .	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
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		I D Fan	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		30.6	
7 Fuel Gas Temperature, °C		122	
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)	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)	11	Not specified

ECO CEMENTS LTD.

Auth. Signatory

ECO CEMENTS LIMITED

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

Zonal Office : HIG-195, SaileshreeVihar, Chandrasekharapur, Bhabhuanagar, Orissa. E-mail : eco@ecocement.com

TEST REPORT

Ref. No. ECO/P- SE/13/124		Dated:13.07.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring of Stack Emission .	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
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		I D Fan	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		31	
7 Fuel Gas Temperature, °C		119.8	
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)	28.1	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)	11.4	Not specified

ECO CEMENTS LTD.

Anth. Signatory

ECO CEMENTS LIMITED


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

Zonal Office : HIG-195 SaileshreeVihar Chandrasekharpur Bhubaneswar Orissa Email: enquiry@ecocem.in



TEST REPORT

Ref. No. ECO/P- SE/13/125		Dated:18.08.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring of Stack Emission .	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
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		I D Fan	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		28.4	
7 Fuel Gas Temperature, °C		120	
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)	34.1	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

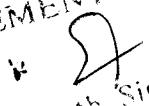
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ECO CEMENTS LIMITED

Corp. Office : 72, Jawaharnagar Extn, Bhelupur, Varanasi-221010. Telefax – 0542-2277074
 Zonal Office : HIG-105, Sainikpura Vihar, Chandrasekharpur, Bhubaneswar. Office Email : enquiry@ecocem.in

TEST REPORT

Ref. No. ECO/P- SE/13/126		Dated:15.09.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring of Stack Emission .	
(d) No. & Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
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		I D Fan	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		27.6	
7 Fuel Gas Temperature, °C		122	
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)	30.1	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

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Zonal Office : HIG-195 SaileshreeVihar Chandrasekharapur Bhubaneswar Orissa Email : enquiry@ecocem.in

TEST REPORT

Ref. No. ECO/P- SE/13/127		Dated:17.04.2013		
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua			
(b) Report to be submitted to	Director			
(c) Details of Sample	Monitoring og Stack Emission.			
(d) No.& Type of container	Thimble & Glass Impinger			
(e) Date of Sample				
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		23		
7 Fuel Gas Temperature, °C		49		
8 Velocity,m/sec		IS 11255 (Part-3)	7.1	
9 Samplling Point			14 m.	
		Contentration. (mg / NM ³)	Limit as per E(P) Rules	
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	28.5	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	710.00 mg/NM ³	

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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

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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/13/121(d)</i> Dt : <i>14.06.2013</i> Your Work Order No. <i>NIL</i> Dt : <i>10.05.2013</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 18.05.13			
[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	19.05.13			
	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		38.0	
7.	Flue Gas Temperature, °C		44.0	
8.	Velocity, m/sec.		IS 11255 (Part-3)	6.8
9.	Sampling Point			14 m.
			Concentration (mg / NM³)	
			Limit as per E (P) Rules	
10.	Particulate Matter (P.M.)	IS 11255 (Part-1)	38.4 150.00 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)	11.2 Not Specified	



[Signature]
Dy. Quality Manager

TEST REPORT

Ref. No. ECO/P- SE/13/128		Dated:15.06.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia, Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring og Stack Emission.	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
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		35	
7 Fuel Gas Temperature, °C		48	
8 Velocity,m/sec	IS 11255 (Part-3)	7.1	
9 Samplling Point		14 m.	
		Concentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	28.4	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)	12.6	710.00 mg/NM ³

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TEST REPORT

Ref. No. ECO/P- SE/13/129		Dated:20.07.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring og Stack Emission.	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
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		38	
7 Fuel Gas Temperature, °C		45	
8 Velocity,m/sec	IS 11255 (Part-3)	7.1	
9 Samplling Point		14 m.	
		Contcentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	32.7	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)	11.4	710.00 mg/NM ³

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TEST REPORT

Ref. No. ECO/P- SE/13/130		Dated:16.08.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring og Stack Emission.	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
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		36	
7 Fuel Gas Temperature, °C		47	
8 Velocity,m/sec	IS 11255 (Part-3)	7.1	
9 Samplling Point		14 m.	
		Contoncentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	28.5	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)	10.6	710.00 mg/NM ³

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TEST REPORT

Ref. No. ECO/P- SE/13/127		Dated:17.09.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring og Stack Emission.	
(d) No. & Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
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		30	
7 Fuel Gas Temperature, °C		44.6	
8 Velocity,m/sec	IS 11255 (Part-3)	7.1	
9 Sampling Point		14 m.	
		Contcentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	31	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)	10.7	710.00 mg/NM ³

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TEST REPORT

Ref. No. ECO/P- SE/13/117		Dated:15.04.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring of Stack Emission	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
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)		0.75 m	
4 Draft		I D Fan	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		27	
7 Fuel Gas Temperature, °C		54	
8 Velocity,m/sec	IS 11255 (Part-3)	5.6	
9 Sampling Point		9 m.	
		Contentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	27.1	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)	9.7	Not specified


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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



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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/13/121(c)</i> Dt : <i>14.06.2013</i> Your Work Order No. <i>NIL</i> Dt : <i>10.05.2013</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 18.05.13	
[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	19.05.13	
	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		36.0
7.	Flue Gas Temperature, °C		48.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	6.1
9.	Sampling Point		9 m.
			Concentration (mg / NM ³)
			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)	11.4 Not Specified



[Signature]
Dy. Quality Manager

TEST REPORT

Ref. No. ECO/P- SE/13/118		Dated:19.06.2013		
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b) Report to be submitted to		Director		
(c) Details of Sample		Monitoring of Stack Emission		
(d) No.& Type of container		Thimble & Glass Impinger		
(e) Date of Sample				
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)		0.75 m		
4 Draft		I D Fan		
5 Material of Construction		M.S.		
6 Ambient Temperature, °C		30.4		
7 Fuel Gas Temperature, °C		58		
8 Velocity,m/sec		IS 11255 (Part-3)	5.6	
9 Sampling Point			9 m.	
		Contentration. (mg / NM ³)	Limit as per E(P) Rules	
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	33.6	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	

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ECO CEMENTS LIMITED

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TEST REPORT

Ref. No. ECO/P- SE/13/119		Dated:16.07.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring of Stack Emission	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
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)		0.75 m	
4 Draft		I D Fan	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		27.6	
7 Fuel Gas Temperature, °C		61	
8 Velocity,m/sec	IS 11255 (Part-3)	5.6	
9 Sampling Point		9 m.	
		Contentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	32.7	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)	9.8	Not specified


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TEST REPORT

Ref. No. ECO/P- SE/13/120		Dated:18.08.2013		
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua			
(b) Report to be submitted to	Director			
(c) Details of Sample	Monitoring of Stack Emission			
(d) No.& Type of container	Thimble & Glass Impinger			
(e) Date of Sample				
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)		0.75 m		
4 Draft		I D Fan		
5 Material of Construction		M.S.		
6 Ambient Temperature, °C		30.3		
7 Fuel Gas Temperature, °C		58.8		
8 Velocity,m/sec		IS 11255 (Part-3)	5.6	
9 Sampling Point			11.0 m	
		Contentration. (mg / NM ³)	Limit as per E(P) Rules	
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	24.5	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)	10.6	Not specified	

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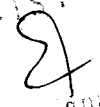
ECO CEMENTS LIMITED

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Zonal Office : HIG-195, SaileshreeVihar, Chandrasekharnur, Bhubaneswar, Orissa. Email - enquiry@ecocem.in

TEST REPORT

Ref. No. ECO/P- SE/13/121		Dated:15.09.2013	
(a) Name and address		• ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring of Stack Emission	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
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)		0.75 m	
4 Draft		I D Fan	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		28.4	
7 Fuel Gas Temperature, °C		54	
8 Velocity,m/sec	IS 11255 (Part-3)	5.6	
9 Sampling Point		9 m.	
		Concentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	34.2	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)	10.1	Not specified


 With Signature


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TEST REPORT

Ref. No. ECO/P- SE/13/130		Dated:15.04.2013	
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b) Report to be submitted to	Director		
(c) Details of Sample	Monitoring of Stack Emission		
(d) No.& Type of container	Thimble & Glass Impinger		
(e) Date of Sample			
Parameters	Method of Test	Results	
1 Stack Connected to		Bag filter at Clinker-Gypsum Feeding area	
2 Height of Stack (as reported)		30 m	
3 Dia of Stack at Top(as reported)		0.6 m.	
4 Draft		I D Fan	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		25.2	
7 Fuel Gas Temperature, °C		49.8	
8 Velocity,m/sec	IS 11255 (Part-3)	5.6	
9 Sampling Point		9 m.	
		Contentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	30.4	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)	10.1	Not specified

ECO CEMENTS LTD.

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ECO CEMENTS LIMITED

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

Zonal Office : HIG-195, SaileshreeVihar, Chandrasekharpur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in

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

IRIS ANZ



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/13/121(c)</i> Dt : <i>14.06.2013</i> Your Work Order No. <i>NIL</i> Dt : <i>10.05.2013</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 18.05.13		
[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	19.05.13		
	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		36.0	
	7. Flue Gas Temperature, °C		48.0	
	8. Velocity, m/sec.		IS 11255 (Part-3)	6.1
	9. Sampling Point			9 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)	11.4 Not Specified	



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TEST REPORT


Ref. No. ECO/P- SE/13/131		Dated:18.06.2013	
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b) Report to be submitted to	Director		
(c) Details of Sample	Monitoring of Stack Emission		
(d) No.& Type of container	Thimble & Glass Impinger		
(e) Date of Sample	-		
Parameters	Method of Test	Results	
1 Stack Connected to		Bag filter at Clinker-Gypsum Feeding area	
2 Height of Stack (as reported)		30 m	
3 Dia of Stack at Top(as reported)		0.6 m.	
4 Draft		I D Fan	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		30.6	
7 Fuel Gas Temperature, °C		52.1	
8 Velocity,m/sec	IS 11255 (Part-3)	5.6	
9 Sampling Point		9 m.	
		Contentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	29.1	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)	10.7	Not specified

ECO CEMENTS LTD.

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ECO CEMENTS LIMITED

Corp. Office : 72, Jawaharnagar Extn, Bhelupur, Varanasi-221010. Telefax – 0542-2277074
 Email : enquiry@ecocem.in

TEST REPORT			
Ref. No. ECO/P- SE/13/132		Dated:14.07.2013	
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b) Report to be submitted to	Director		
(c) Details of Sample	Monitoring of Stack Emission		
(d) No.& Type of container	Thimble & Glass Impinger		
(e) Date of Sample	14.07.2013		
Parameters	Method of Test	Results	
1 Stack Connected to		Bag filter at Clinker-Gypsum Feeding area	
2 Height of Stack (as reported)		30 m	
3 Dia of Stack at Top(as reported)		0.6 m.	
4 Draft		I D Fan	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		34.8	
7 Fuel Gas Temperature, °C		53	
8 Velocity,m/sec	IS 11255 (Part-3)	5.6	
9 Samplling Point		9 m.	
		Contcentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	23.4	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)	11.6	Not specified

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TEST REPORT

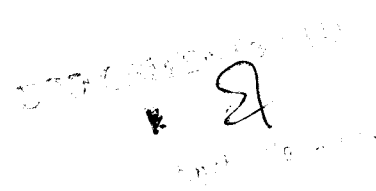
Ref. No. ECO/P- SE/13/133		Dated:21.08.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring of Stack Emission	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
Parameters	Method of Test	Results	
1 Stack Connected to		Bag filter at Clinker-Gypsum Feeding area	
2 Height of Stack (as reported)		30 m	
3 Dia of Stack at Top(as reported)		0.6 m.	
4 Draft		I D Fan	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		36	
7 Fuel Gas Temperature, °C		54	
8 Velocity,m/sec	IS 11255 (Part-3)	5.6	
9 Sampling Point		9 m.	
		Contentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	24.5	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

ECOCEMENTS LTD


21/08/2013

TEST REPORT

Ref. No. ECO/P- SE/13/133		Dated:21.09.2013	
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b) Report to be submitted to	Director		
(c) Details of Sample	Monitoring of Stack Emission		
(d) No.& Type of container	Thimble & Glass Impinger		
(e) Date of Sample			
Parameters	Method of Test	Results	
1 Stack Connected to		Bag filter at Clinker-Gypsum Feeding area	
2 Height of Stack (as reported)		30 m	
3 Dia of Stack at Top(as reported)		0.6 m.	
4 Draft		I D Fan	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		40.2	
7 Fuel Gas Temperature, °C		56.8	
8 Velocity,m/sec	IS 11255 (Part-3)	5.6	
9 Sampling Point		9 m.	
		Contentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	28	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)	11.3	Not specified





TEST REPORT

Ref. No. ECO/P- SE/13/112		Dated:14.04.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati.	
(b) Report to be submitted to		Director -	
(c) Details of Sample		Monitoring og Stack Emission of 500 KVA DG Set	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
Parameters	Method of Test	Results	
1 Stack Connected to		500 KVA DG Set	
2 Height of Stack (as reported)		3	
3 Dia of Stack at Top(as reported)		0.2	
4 Draft		Natural	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		23	
7 Fuel Gas Temperature, °C		114	
8 Velocity,m/sec	IS 11255 (Part-3)	6.2	
9 Samplling Point		Top of Exhaust	
		Concentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	29.6	75.00 mg/NM ³
11 Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	61.4	Not specified
12 Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	196.7	710.00 mg/NM ³

ECO CEMENTS LIMITED

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

Zonal Office : IIC, 105, Seelachar Vihar, Chandernagore, Bihar

Plant Office : Eco Cement, Durgawati, Varanasi

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



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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/13/121(h)</i> Dt : <i>14.06.2013</i> Your Work Order No. <i>NIL</i> Dt : <i>10.05.2013</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 500 KVA DG Set		
[d] Sample Collected by	SHIVA TEST HOUSE on 18.05.13		
[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	19.05.13		
	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		36.0
7.	Flue Gas Temperature, °C		121.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	5.4
9.	Sampling Point		Top of Exhaust
			<i>Concentration (mg / NM³)</i>
			<i>Limit as per E (P) Rules</i>
10.	Particulate Matter (P.M.)	IS 11255 (Part-1)	26.3 75.00 mg / NM ³
11.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	54.6 Not Specified
12.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	177.8 710.00 mg / NM ³




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TEST REPORT

Ref. No. ECO/P- SE/13/113		Dated:19.06.2013	
(a) Name and address	ECO Cement Ltd. mahmoodganj. At. Kulharia,Durgawati.		Vill.:
(b) Report to be submitted to	Director		
(c) Details of Sample	Monitoring og Stack Emission of 500 KVA DG Set		
(d) No.& Type of container	Thimble & Glass Impinger		
(e) Date of Sample			
Parameters	Method of Test	Results	
1 Stack Connected to		500 KVA DG Set	
2 Height of Stack (as reported)		3	
3 Dia of Stack at Top(as reported)		0.2	
4 Draft		Natural	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		23	
7 Fuel Gas Temperature, °C		114	
8 Velocity,m/sec	IS 11255 (Part-3)	6.2	
9 Samplling Point		Top of Exhaust	
		Concentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	29.9	75.00 mg/NM ³
11 Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	62.4	Not specified
12 Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	204.2	710.00 mg/NM ³

ECO CEMENTS LTD.

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ECO CEMENTS LIMITED

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

Zonal Office : HIG-195 SaileshreeVihar, Chandrasekharpur, Bhubaneswar, Orissa, India

TEST REPORT

Ref. No. ECO/P- SE/13/114		Dated:14.07.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati.	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring og Stack Emission of 500 KVA DG Set	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
Parameters	Method of Test	Results	
1 Stack Connected to		500 KVA DG Set	
2 Height of Stack (as reported)		3	
3 Dia of Stack at Top(as reported)		0.2	
4 Draft		Natural	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		22	
7 Fuel Gas Temperature, °C		117	
8 Velocity,m/sec	IS 11255 (Part-3)	6.2	
9 Sampling Point		Top of Exhaust	
		Concentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	31.5	75.00 mg/NM ³
11 Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	59.8	Not specified
12 Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	199.6	710.00 mg/NM ³

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TEST REPORT

Ref. No. ECO/P- SE/13/115		Dated:22.08.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati.	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring og Stack Emission of 500 KVA DG Set	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample		-	
Parameters	Method of Test	Results	
1 Stack Connected to		500 KVA DG Set	
2 Height of Stack (as reported)		3	
3 Dia of Stack at Top(as reported)		0.2	
4 Draft		Natural	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		24	
7 Fuel Gas Temperature, °C		118	
8 Velocity,m/sec	IS 11255 (Part-3)	6.2	
9 Samplling Point		Top of Exhaust	
		Concentration. (mg /NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	37.4	75.00 mg/NM ³
11 Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	61.6	Not specified
12 Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	200.8	710.00 mg/NM ³

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ECO CEMENTS LIMITED

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

Zonal Office : HIG-195, SaileshreeVihar, Chandrasekharpur. Bhubaneswar Orissa Email - enquiry@ecocem.in



TEST REPORT

Ref. No. ECO/P- SE/13/116		Dated:18.09.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati.	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring og Stack Emission of 500 KVA DG Set	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
Parameters	Method of Test	Results	
1 Stack Connected to		500 KVA DG Set	
2 Height of Stack (as reported)		3	
3 Dia of Stack at Top(as reported)		0.2	
4 Draft		Natural	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		29.8	
7 Fuel Gas Temperature, °C		121	
8 Velocity,m/sec	IS 11255 (Part-3)	6.2	
9 Samplling Point		Top of Exhaust	
		Concentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	29.7	75.00 mg/NM ³
11 Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	63.4	Not specified
12 Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	199.7	710.00 mg/NM ³

ECO CEMENTS LTD.

[Signature]
Anth. Signatory



vayubodhan

UPKARAN PRIVATE LIMITED

A-292/1, Okhla Industrial Area,
Phase-1, New Delhi-110020
Phones : 26810724, 26811696
Tele Fax : 011-26818959
E-mail : vayubodhan@vsnl.net

CALIBRATION CERTIFICATE

Customer	M/s Eco Cements Ltd Plot No – 1644, Bheriya More Kutharia Durgauti Bhabhua, Bihar – 821 105
Purchase Order No.	Eco/BHR/VaubodhanUpkaranPo/Rs/2013
Instrument	Attachment for Gaseous Sampling Model APM 411
Serial No.	844 DTG 13
Date of Calibration	14/04/2013
Validity of Certificate Up to	As Per Rule

VAYUBODHAN UPKARAN PRIVATE LIMITED Certifies that the above instruments were thoroughly Calibrated, tested and inspected and found to meet its published specifications when it was shipped from the factory.

Details of reference units against which above instrument is calibrated.

Details	Glass Cylinder for Rotameter	Stop Watch
Serial No.	303-361-0016	VBSW- 02
Model/ Type	Glass Cylinder	-----
Authority	SIIR	BELZ
Certificate No.	000044682 dated 20/03/2013	6096714 Dated 21/05/2013
Validity Upto	19/03/2014	19/05/2014

For VAYUBODHAN UPKARAN PVT. LTD.,

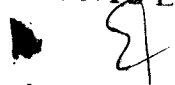
(CASHISH GUPTA) DIRECTOR



TEST REPORT

Ref. No. ECO/P- SE/13/107		Dated:14.04.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring og Stack Emission of 125 KVA DG Set	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
Parameters	Method of Test	Results	
1 Stack Connected to		125 KVA DG Set	
2 Height of Stack (as reported)		2.1	
3 Dia of Stack at Top(as reported)		0.13 m.	
4 Draft		Natural	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		23	
7 Fuel Gas Temperature, °C		114	
8 Velocity,m/sec	IS 11255 (Part-3)	7.1	
9 Samplling Point		Top of Exhaust	
		Concentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	35.1	75.00 mg/NM ³
11 Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	56.1	Not specified
12 Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	177.2	710.00 mg/NM ³

ECO CEMENTS LTD.


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Regd. Office :
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Gardanibagh
PATNA – 800 001 (Bihar)



Laboratory Address :-
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NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
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SHIVA TEST HOUSE

Tel. : 0612 – 2247538/ 2240752 ; TeleFax : 0612 - 2590705
E.mail.: sthatna1@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/13/121(a)</i> Dt : <i>14.06.2013</i> Your Work Order No. <i>NIL</i> Dt : <i>10.05.2013</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 18.05.13	
[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	19.05.13	
	Parameters	Method of Test	Results
	1. Stack Connected to		125 KVA DG Set
	2. Height of Stack (as reported)		7.0 m.
	3. Dia of Stack at Top (as reported)		0.15 m.
	4. Draft		Natural
	5. Material of Construction		M.S.
	6. Ambient Temperature, °C		36.0
	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)	52.6 Not Specified
	12. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	168.6 710.00 mg / NM ³



[Signature]
Dy. Quality Manager

TEST REPORT

Ref. No. ECO/P- SE/13/108		Dated:18.06.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia, Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring og Stack Emission of 125 KVA DG Set	
(d) No. & Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
Parameters	Method of Test	Results	
1 Stack Connected to		125 KVA DG Set	
2 Height of Stack (as reported)		2.1	
3 Dia of Stack at Top(as reported)		0.13 m.	
4 Draft		Natural	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		25	
7 Fuel Gas Temperature, °C		116	
8 Velocity, m/sec	IS 11255 (Part-3)	7.1	
9 Sampling Point		Top of Exhaust	
		Concentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	31.3	75.00 mg/NM ³
11 Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	57.4	Not specified
12 Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	176.2	710.00 mg/NM ³

ECO CEMENTS LTD.

 Auth. Signatory



TEST REPORT

Ref. No. ECO/P- SE/13/109		Dated:20.07.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director -	
(c) Details of Sample		Monitoring og Stack Emission of 125 KVA DG Set	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
	Parameters	Method of Test	Results
1	Stack Connected to		125 KVA DG Set
2	Height of Stack (as reported)		2.1
3	Dia of Stack at Top(as reported)		0.13 m.
4	Draft		Natural
5	Material of Construction		M.S.
6	Ambient Temperature, °C		27
7	Fuel Gas Temperature, °C		118
8	Velocity,m/sec	IS 11255 (Part-3)	7.1
9	Samplling Point		Top of Exhaust
			Contentration. (mg / NM ³)
			Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	30.3
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	56.2
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	182.2
			75.00 mg/NM ³
			Not specified
			710.00 mg/NM ³

ECO CEMENTS LTD.
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ECO CEMENTS LIMITED

Corp. Office : 72, Jawaharnagar Extn, Bhelupur, Varanasi-221010. Telefax – 0542-2277074
 Field Office : HIG-105, Seelaha-Vihar, Chandrasekharpur, Bhubaneswar, Orissa. Email: enquiry@ecocem.in

TEST REPORT

Ref. No. ECO/P- SE/13/110		Dated:17.08.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring og Stack Emission of 125 KVA DG Set	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample		-	
Parameters	Method of Test	Results	
1 Stack Connected to		125 KVA DG Set	
2 Height of Stack (as reported)		2.1	
3 Dia of Stack at Top(as reported)		0.13 m.	
4 Draft		Natural	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		22	
7 Fuel Gas Temperature, °C		114	
8 Velocity,m/sec	IS 11255 (Part-3)	7.1	
9 Samplling Point		Top of Exhaust	
		Concentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	35.3	75.00 mg/NM ³
11 Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	59.2	Not specified
12 Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	179.6	710.00 mg/NM ³

ECO CEMENTS LTD.

 Auth. Signatory

TEST REPORT

Ref. No. ECO/P- SE/13/111		Dated:15.09.2013	
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to		Director	
(c) Details of Sample		Monitoring og Stack Emission of 125 KVA DG Set	
(d) No.& Type of container		Thimble & Glass Impinger	
(e) Date of Sample			
Parameters	Method of Test	Results	
1 Stack Connected to		125 KVA DG Set	
2 Height of Stack (as reported)		2.1	
3 Dia of Stack at Top(as reported)		0.13 m.	
4 Draft		Natural	
5 Material of Construction		M.S.	
6 Ambient Temperature, °C		25	
7 Fuel Gas Temperature, °C		118	
8 Velocity,m/sec	IS 11255 (Part-3)	7.1	
9 Samplling Point		Top of Exhaust	
		Concentration. (mg / NM ³)	Limit as per E(P) Rules
10 Particulate Matter (P.M.)	IS 11255 (Part-1)	35	75.00 mg/NM ³
11 Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	56.6	Not specified
12 Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	181.7	710.00 mg/NM ³

ECO CEMENTS LTD.

 Auth. Signatory

ECO CEMENTS LIMITED

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

Zonal Office : HIG-195, SaileshreeVihar, Chandrasekharpur, Bhubaneswar. Orissa Email - enquiry@ecocem.in

Fugitive Dust Emission Level Monitoring Report for the period APRIL 2013 TO SEP. 2013						
Concentration of Total Dust (All Values in mg/m ³)						
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	Apr-13	3.4	3.9	2.9	4.9	3.7
2	May-13	5.1	4.4	3.0	5.6	4.2
3	Jun-13	2.8	5.3	3.3	5.2	3.3
4	Jul-13	2.9	5.1	3.2	5.3	3.1
5	Aug-13	3.0	5.6	4.2	4.2	4.4
6	Sep-13	2.7	5.2	3.2	4.9	3.8
Average		3.3	4.9	3.3	5.0	3.8

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Auth. Signatory

ECO CEMENTS LIMITED

REGD. OFF.: 1-E, 1ST FLOOR, ASHUTOSH APARTMENT, 295/2, GT ROAD, HOWRAH -700013

FACTORY: PLOT NO. 1644, BHERIYA ROAD, KULHARIA, DURGAUTI, BHABHUA, BIHAR

ZONAL OFF: 72, JAWAHAR NAGAR EXTN. BHELIYAR, VADANAGAR, BIHAR



TEST REPORT

Ref. No. ECO/P- FDE/13/133		Dated: 13.04.2013			
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia, Durgawati. Dist.: Bhabhua			
(b) Report to be submitted to		Director			
(c) Details of Sample		Monitoring of Fugitive Emissions in Work Zone area			
(d) No. & Type of container		Filter Paper			
(e) Date of Sample		13.04.2013			
S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc ⁿ *	Concentration of Respirable Dust	Permissible TWA Conc ⁿ *
		mg/M ³	mg/M3	mg/M3	mg/M3
1	Mill Section Ground Floor	3.4	10.0	1.9	5.0
2	Mill Section 01 st Floor	3.9	10.0	1.7	5.0
3	Mill Section 02 nd Floor	2.9	10.0	2	5.0
4	South Side of Mill section	4.9	10.0	1.8	5.0
5	North Side of Mill section	3.7	10.0	1.4	5.0
Permissible time Weighed (TWA) Conc ⁿ based on Silica Content as per Factories Act '1948 Second Schedule					

ECO CEMENTS LTD.
Auth. Signatory

ECO CEMENTS LIMITED

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

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



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/13/121(g)</i> Dt : 14.06.2013 Your Work Order No. <i>NIL</i> Dt : 10.05.2013					
[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 18.05.13		
[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		19.05.13		
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	4.4	10.00	1.14	5.00
2	Mill Section 01 st Floor	3.8	10.00	1.22	5.00
3	Mill Section 02 nd Floor	2.6	10.00	1.68	5.00
4	South side of Mill Section	4.8	10.00	1.44	5.00
5	North side of Mill Section	3.6	10.00	0.96	5.00
*Permissible Time Weighted Average (TWA) Conc ⁿ based on Silica Content as per Factories Act'1948 Second Schedule					

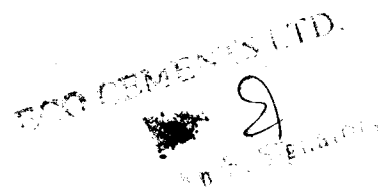


[Signature]
Dy. Quality Manager

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

TEST REPORT

Ref. No. ECO/P- FDE/13/134		Dated: 18.06.2013			
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia, Durgawati. Dist.: Bhabhua			
(c) Details of Sample		Monitoring of Fugitive Emissions in Work Zone area			
(d) No. & Type of container		Filter Paper			
(e) Date of Sample		18.06.2013			
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	2.8	10.0	1.3	5.0
2	Mill Section 01 st Floor	5.3	10.0	2.1	5.0
3	Mill Section 02 nd Floor	3.3	10.0	1.6	5.0
4	South Side of Mill section	5.2	10.0	1.9	5.0
5	North Side of Mill section	3.3	10.0	1.5	5.0
* Permissible time Weighed (TWA) Conc ^{n.} based on Silica Content as per Factories Act '1948 Second Schedule.					



 ECO CEMENTS LTD.



TEST REPORT

Ref. No. ECO/P- FDE/13/135		Dated: 16.07.2013			
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia, Durgawati. Dist.: Bhabhua			
(b) Report to be submitted to		Director			
(c) Details of Sample		Monitoring of Fugitive Emissions in Work Zone area			
(d) No. & Type of container		Filter Paper			
(e) Date of Sample		16.07.2013			
S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc ⁿ *	Concentration of Respirable Dust	Permissible TWA Conc ⁿ *
		mg/M ³	mg/M3	mg/M3	mg/M3
1	Mill Section Ground Floor	2.9	10.0	2.1	5.0
2	Mill Section 01 st Floor	5.1	10.0	1.4	5.0
3	Mill Section 02 nd Floor	3.2	10.0	1.7	5.0
4	South Side of Mill section	5.3	10.0	2	5.0
5	North Side of Mill section	3.1	10.0	1.6	5.0

* Permissible time Weighed (TWA) Concⁿ based on Silica Content as per Factories Act '1948 Second Schedule.

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



TEST REPORT

Ref. No. ECO/P- FDE/13/136		Dated: 22.08.2013			
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia, Durgawati. Dist.: Bhabhua			
(b) Report to be submitted to		Director			
(c) Details of Sample		Monitoring of Fugitive Emissions in Work Zone area			
(d) No. & Type of container		Filter Paper			
(e) Date of Sample		22.08.2013			
S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc ^{n,*}	Concentration of Respirable	Permissible TWA Conc ^{n,*}
		mg/M ³	mg/M3	mg/M3	mg/M3
1	Mill Section Ground Floor	3	10.0	1.7	5.0
2	Mill Section 01 st Floor	5.6	10.0	1.2	5.0
3	Mill Section 02 nd Floor	4.2	10.0	1.5	5.0
4	South Side of Mill section	4.2	10.0	1.8	5.0
5	North Side of Mill section	4.4	10.0	1.6	5.0
* Permissible time Weighed (TWA) Conc ⁿ based on Silica Content as per Factories Act '1948 Second Schedule.					

ECO CEMENTS LTD.
Auth. Signatory


ECO CEMENTS LIMITED

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

TEST REPORT

Ref. No. ECO/P- FDE/13/137		Dated: 15.09.2013			
(a) Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia, Durgawati.			
(b) Report to be submitted to		Director			
(c) Details of Sample		Monitoring of Fugitive Emissions in Work Zone area			
(d) No. & Type of container		Filter Paper			
(e) Date of Sample		15.09.2013			
S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc ⁿ *	Concentration of Respirable	Permissible TWA Conc ⁿ *
		mg/M ³	mg/M3	mg/M3	mg/M3
1	Mill Section Ground Floor	2.7	5.2	1.2	5.0
2	Mill Section 01 st Floor	5.2	10.0	1.8	5.0
3	Mill Section 02 nd Floor	3.2	10.0	1.4	5.0
4	South Side of Mill section	4.9	10.0	1.3	5.0
5	North Side of Mill section	3.8	10.0	2	5.0
sible time Weighed (TWA) Conc ⁿ based on Silica Content as per Factories Act '1948 Second S					

ECO CEMENTS LTD


 Auth. Signatory



RAYTHEON TECHNOLOGIES

"GOKULAM" No.41, Teachers' Colony, Vettuvankeni, Chennai - 600 041.
Ph : 24492285 , 28250989. Fax : 24491647 , 28254718
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,
Durgauti, 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 -

SI.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/ICNI/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. Authored 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.

Ambient Noise level Monitoring Report From APRIL 2013 TO SEP. 2013 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	Apr-13	62.5	62.5	62.5	65.3	64.0	75dB(A) in day & 70 dB(A) in night
2	May-13	59.3	60.2	58.4	62.8	63.7	
3	Jun-13	59.9	60.3	61.4	62.5	61.2	
4	Jul-13	63.1	64.3	64	63.2	56.9	
5	Aug-13	62.2	66	57.2	67	58.2	
6	Sep-13	67.5	62	58.8	63	65	
Average Values		62.4	62.6	60.4	64.0	50.8	

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Anth. Signatory



TEST REPORT	
Ref. No. ECO/P- ANL/13/138	Dated:18.04.2013
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua
(b) Report to be submitted to	Director
(c) Details of Sample	Monitoring of Ambient Noise Level.
(d) Monitored by	ECO CEMENT Ltd.
(e) Date of Monitoring	18.04.2013
Sampling Locations	Time weighted Average (TWA) Of Noise Level in dB(A)
1 Near Main Gate	62.5
2 Near CCR	62.5
3 Near Canteen	62.5
4 Near Gypsum Storage Area	65.3
5 Near Clinker storage Area	64.0
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 Comercial area is 65.0 dB(A),for Residensial area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.00 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.
Anth. Signatory

ECO CEMENTS LIMITED

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

Q. no. Email: enquiry@ecocem.in

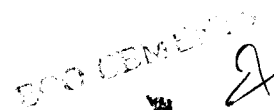
TEST REPORT

Ref. No. ECO/P- ANL/13/139		Dated:13.05.2013
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b) Report to be submitted to	Director	
(c) Details of Sample	Monitoring of Ambient Noise Level.	
(d) Monitored by	ECO CEMENT Ltd.	
(e) Date of Monitoring	13.05.2013	
Sampling Locations		Time weighted Average (TWA) Of Noise Level in db(A)
1 Near Main Gate	59.3	
2 Near CCR	60.2	
3 Near Canteen	58.4	
4 Near Gypsum Storage Area	62.8	
5 Near Clinker storage Area	63.7	
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 9.00 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	

ECO CEMENTS

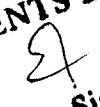
 Auth. Signatory

TEST REPORT	
Ref. No. ECO/P- ANL/13/140	Dated:16.06.2013
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua
(b) Report to be submitted to	Director
(c) Details of Sample	Monitoring of Ambient Noise Level.
(d) Monitored by	ECO CEMENT Ltd.
(e) Date of Monitoring	16.06.2013
Sampling Locations	Time weighted Average (TWA) Of Noise Level in db(A)
1 Near Main Gate	59.9
2 Near CCR	60.3
3 Near Canteen	61.4
4 Near Gypsum Storage Area	62.5
5 Near Clinker storage Area	61.2
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 Comercial area is 65.0 db(A),for Residensial area is 55.0 db(A) & for Silence Zone is 50.0 db(A) in daytime i.e. 6.00 am to 9.00 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


 Amb. Signature


TEST REPORT

Ref. No. ECO/P- ANL/13/141		Dated:19.07.2013	
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b) Report to be submitted to	Director		
(c) Details of Sample	Monitoring of Ambient Noise Level.		
(d) Monitored by	ECO CEMENT Ltd.		
(e) Date of Monitoring	19.07.2013		
Sampling Locations		Time weighted Average (TWA) Of Noise Level in db(A)	
1 Near Main Gate	63.1		
2 Near CCR	64.3		
3 Near Canteen	64		
4 Near Gypsum Storage Area	63.2		
5 Near Clinker storage Area	56.9		
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 Comercial area is 65.0 db(A),for Residensial area is 55.0 db(A) & for Silence Zone is 50.0 db(A) in daytime i.e. 6.00 am to 9.00 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		

ECO CEMENTS LTD.

 Anth. Signatory



TEST REPORT	
Ref. No. ECO/P- ANL/13/142	Dated:15.08.2013
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua
(b) Report to be submitted to	Director
(c) Details of Sample	Monitoring of Ambient Noise Level.
(d) Monitored by	ECO CEMENT Ltd.
(e) Date of Monitoring	15.08.2013
Sampling Locations	Time weighted Average (TWA) Of Noise Level in db(A)
1 Near Main Gate	62.2
2 Near CCR	66.0
3 Near Canteen	57.2
4 Near Gypsum Storage Area	67.0
5 Near Clinker storage Area	58.2
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 Comercial area is 65.0 db(A),for Residensial area is 55.0 db(A) & for Silence Zone is 50.0 db(A) in daytime i.e. 6.00 am to 9.00 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

ECO CEMENTS LTD.

Auth. Signatory

ECO CEMENTS LIMITED

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



TEST REPORT	
Ref. No. ECO/P- ANL/13/143	
Dated:20.09.2013	
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua
(b) Report to be submitted to	Director
(c) Details of Sample	Monitoring of Ambient Noise Level.
(d) Monitored by	ECO CEMENT Ltd.
(e) Date of Monitoring	20.09.2013
Sampling Locations	Time weighted Average (TWA) Of Noise Level in db(A)
1 Near Main Gate	67.5
2 Near CCR	62
3 Near Canteen	58.8
4 Near Gypsum Storage Area	63
5 Near Clinker storage Area	65
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 Comercial area is 65.0 db(A),for Residensial area is 55.0 db(A) & for Silence Zone is 50.0 db(A) in daytime i.e. 6.00 am to 9.00 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

ECO CEMENTS LTD.
Auth. Signatory

ECO CEMENTS LIMITED

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

Email: enquiry@ecocem.in



vayubodhan

UPKARAN PRIVATE LIMITED

A-292/1, Okhla Industrial Area,
Phase-1, New Delhi-110020
Phones : 26810724, 26811696
Tele Fax : 011-26818959
E-mail : vayubodhan@vsnl.net

Calibration Report

Customer	M/s Eco Cements Ltd Plot No - 1644, Bheriya More Kutharia Durgauti Bhabhua, Bihar - 821 105
Instrument	Pitot tube 0.6 + 0.6 mtr. Long
Serial No.	VM - 73
Date of Calibration	14/04/2013
Next Calibration Due on	As Per Rule

Details of reference units against which above instrument is calibrated.

Details	Pitot Static Tube	Digital Pressure Meter	Digital Pressure Meter
Serial No.	S - 11	PM - 04
Model / Type	L TYPE	Testo	Testo
Authority	FCRI	FCRI	FCRI
Certificate No.	CAW 1172 1209 091 Dated 11/09/2012	PSL/24/0413/P/011 Dated 12/04/2013	PSL/24/0413/P/012 Dated 12/04/2013
Validity Up to	11/09/2013	10/04/2014	10/04/2014

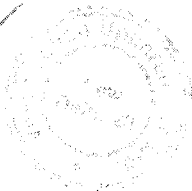
TEST READINGS

#	Standard Pitot - Static Probe	Velocity Probe under Calibration	
	Dynamic Pressure h (mm/WC)	Pressure Difference H (mm/WC)	Coefficient K
1	22.0	32.1	0.828
2	42.9	63.7	0.821
3	50.3	75.4	0.817
Average value of the velocity coefficient of the probe: K = 0.822			

Accuracy : 2% FSD
Ambient Temperature : 18° C

For VAYUBODHAN UPKARAN PVT. LTD.

(ASHISH GUPTA)
DIRECTOR





vayubodhan

UPKARAN PRIVATE LIMITED

A-292/1, Okhla Industrial Area,
Phase-1, New Delhi-110020
Phones : 26810724, 26811696
Tele Fax : 011-26818959
E-mail : vayubodhan@vsnl.net

CALIBRATION CERTIFICATE

Customer	M/s Eco Cements Ltd Plot No – 1644, Bheriya More Kutharia Durgauti Bhabhua, Bihar – 821 105
Purchase Order No.	Eco/BHR/VaubodhanUpkaranPo/Rs/2013

VAYUBODHAN UPKARAN PVT LIMITED certifies that the following instruments were thoroughly Calibrated, tested and inspected and found to meet its published specifications.

#.	Instrument	Sr. No.
1	Respirable Dust Sampler APM 460BL	2609 DTE 13

Validity of Certificate is upto 07/08/2014

For VAYUBODHAN UPKARAN PVT LTD

(ASHISH GUPTA)
DIRECTOR





vayubodhan

UPKARAN PRIVATE LIMITED

A-292/1, Okhla Industrial Area,
Phase-1, New Delhi-110020
Phones : 26810724, 26811696
Tele Fax : 011-26818959
E-mail : vayubodhan@vsnl.net

CALIBRATION CERTIFICATE

Customer	M/s Eco Cements Ltd Plot No – 1644, Bheriya More Kutharia Durgauti Bhabhua, Bihar – 821 105
Purchase Order No.	Eco/BHR/VaubodhanUpkaranPo/Rs/2013
Instrument	Vayubodhan Stack Sampler VSS1
Serial No.	186 DTF 13
Date of Calibration	14/042013
Validity of Certificate Up to	As Per Rule

VAYUBODHAN UPKARAN PRIVATE LIMITED Certifies that the above instruments were thoroughly Calibrated, tested and inspected and found to meet its published specifications when it was shipped from the factory.

Details of reference units against which above instrument is calibrated.

Details	Glass Cylinder for Rotameter	Dry Gas Meter	Digital Pressure Meter For Vacuum Gauge
Serial No	303-361-0016	50056930
Model / Type	Glass Cylinder	G 4B	Testo
Authority	SIIR	FCRI	FCRI
Certificate No.	000044682 dated 20/03/2013	CA 1465 1210 340 Dated 27/10/2012	PSL/24/0413/P/014 Dated 12/04/2013
Validity Upto	19/03/2014	27/10/2013	09/04/2014

Details	Vernier Caliper For Nozzle	Digital Pressure Meter for Manometer	Stop Watch
Serial No.	08308496	VBM – 01	VBSW- 02
Model / Type	0-150 mm	Testo
Authority	BELZ	FCRI	BELZ
Certificate No.	7038523 dated 13/02/2013	PSL/24/0413/P/013 Dated 12/04/2013	6096714 Dated 21/05/2013
Validity Upto	11/02/2014	09/04/2014	19/05/2014

Details	Pyrometer K Type
Serial No.	0106811
Model / Type	K Type
Authority	SIIR
Certificate No.	000044680 dated 21/03/2013
Validity Upto	20/03/2014

For VAYUBODHAN UPKARAN PVT. LTD.,

(ASHISH GUPTA), DIRECTOR





RAYTHEON TECHNOLOGIES

"GOKULAM" No.41, Teachers' Colony, Vettuvankeni, Chennai - 600 041.
Ph : 24492285 , 28250989. Fax : 24491647 , 28254718
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,
Durgauti, Bhabhua, Bihar : 821 105.
2. Description of Item : Environmental Noise Pollution Monitor.
Make : Raytheon Technologies, Chennai.
Model : RT-5001
Sl. 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/2012-43671.

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. Authorized 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 future reference.



To,
The Chairman,
Central Pollution Control Board,
Parivesh Bhawan, CBD-cum-Office Complex,
East Arjun Nagar, Delhi - 110 032

DATED 22.10.2013

Our Ref : ECO/BIHAR/EMR/22102013/4

Sub : Environmental Monitoring Results of M/s. Eco Cements Limited, Bhabhua for
the period of APRIL 2013 TO SEP.2013

Dear Sir,

This refers to above mentioned subject. In this matter, please find attached Environmental Monitoring results of Ambient Air Quality, Stack Emission and Fugitive Emission of M/s. Eco Cements Limited, Bhabhua for the period of APRIL 2013 TO SEP.2013

Kindly acknowledge the receipt and oblige.

Thanking you in anticipation,
For Eco Cements Limited

Rajiv Saini
G.M. Projects

Encl.

1. Environmental Monitoring results of M/s. Eco Cements Limited, Bhabhua for
the period of APRIL 2013 TO SEP.2013

Copy to.

1. The Chairman,
Bihar State Pollution Control Board,
Beltron Bhavan, 2nd Floor, Lal Bahadur Shastri Nagar,
Patna- 800023
2. Ministry of Environment and Forests,
A-3, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.
Tel: 0674-2301248, 2301213; Fax: 0674-2302432

ECO CEMENTS LIMITED

REGD. OFF.: 1-E, 1st FLOOR, ASHUTOSH APARTMENT, 295/2, GT ROAD, HOWRAH -700013

FACTORY: PLOT NO. 1644, BHERIYA ROAD, KULHARIA, DURGAUTI, BHABHUA, BIHAR

ZONAL OFF: 72, JAWAHAR NAGAR EXTN. BHELUPUR, VARANASI-221010 TEL : 0522-2277074

Ambient Air Quality Monitoring Report (All Values in ug/m3)													
Year: 2013 - 2014 (APRIL 2013 TO SEP 2013.)													
S. No.	Location ---->	Near Main Gate			Near CCR			Near Canteen			Near Gypsum & Clinker Storage		
	Month	PM ₁₀	SO ₂	NO ₂	PM ₁₀	SO ₂	NO ₂	PM ₁₀	SO ₂	NO ₂	PM ₁₀	SO ₂	NO ₂
1	Apr-13	67.2	18.3	17.1	70.3	16.4	20.6	73.1	12.3	14.4	69.5	9.9	13.4
2	May-13	64	12.3	14.1	67.8	11.6	12.2	57.7	10.6	11.6	60.4	8.9	12.3
3	Jun-13	71.2	16.7	21.6	77.1	17.2	19.2	69.9	15.2	18.3	71.3	14	18.4
4	Jul-13	69.5	9.9	13.4	75.1	15.2	19.2	70.3	16.4	20.6	75.7	17	21.2
5	Aug-13	60.4	8.9	12.3	69.2	10.1	11	67.8	11.6	12.2	71.2	9.3	10
6	Sep-13	71.3	14.1	18.4	70.1	9.8	14.1	77.1	17.2	19.2	70.1	11	12.3
Average		67.27	13.4	16.2	71.6	13.4	16.1	69.3	13.9	16.1	69.7	11.6	14.6

ECO CEMENTS LTD.
Amfr. Signatory

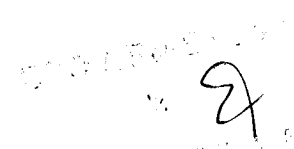
ECO CEMENTS LIMITED

REGD. OFF.: 1-E, 1st FLOOR, ASHUTOSH APARTMENT, 295/2, GT ROAD, HOWRAH -700013

FACTORY: PLOT NO. 1644, BHERIYA ROAD, KULHARIA, DURGAUTI, BHABHUA, BIHAR

ZONAL OFF: 72 IAWAHAR NAGAR EXTN. PHELIHUR, VARANASI, 221012

Stack Emission Level Monitoring Report for the period APRIL 2013 TO SEP 2013 All Values in mg/m ³								
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	Apr-13	27.3	28.5	27.1	30.4	29.6	35.1	50 mg/Nm ³
2	May-13	36.4	42.8	34.6	28.6	28.4	33.6	
3	Jun-13	28.6	28.4	33.6	29.1	29.9	31.3	
4	Jul-13	28.1	32.7	32.7	23.4	31.5	30.3	
5	Aug-13	34.1	28.5	35.3	24.5	37.4	35.3	
6	Sep-13	30.1	31	34.2	28	29.7	35	
Average Values		30.77	31.98	32.92	27.33	31.08	33.43	



Fugitive Dust Emission Level Monitoring Report for the period APRIL 2013 TO SEP. 2013						
Concentration of Total Dust (All Values in mg/m ³)						
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	Apr-13	3.4	3.9	2.9	4.9	3.7
2	May-13	5.1	4.4	3.0	5.6	4.2
3	Jun-13	2.8	5.3	3.3	5.2	3.3
4	Jul-13	2.9	5.1	3.2	5.3	3.1
5	Aug-13	3.0	5.6	4.2	4.2	4.4
6	Sep-13	2.7	5.2	3.2	4.9	3.8
Average		3.3	4.9	3.3	5.0	3.8

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Ambient Noise level Monitoring Report From APRIL 2013 TO SEP. 2013 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	Apr-13	62.5	62.5	62.5	65.3	64.0	75dB(A) in day & 70 dB(A) in night
2	May-13	59.3	60.2	58.4	62.8	63.7	
3	Jun-13	59.9	60.3	61.4	62.5	61.2	
4	Jul-13	63.1	64.3	64	63.2	56.9	
5	Aug-13	62.2	66	57.2	67	58.2	
6	Sep-13	67.5	62	58.8	63	65	
Average Values		62.4	62.6	60.4	64.0	50.8	

ECOCEMENTS LTD.
Amit S. Sharma**ECO CEMENTS LIMITED**REGD. OFF.: 1-E, 1ST FLOOR, ASHUTOSH APARTMENT, 295/2, GT ROAD, HOWRAH -700013

FACTORY: PLOT NO. 1644, BHERIYA ROAD, KULHARIA, DURGAUTI, BHABHUA, BIHAR

ZONAL OFF: 72, JAWAHAR NAGAR EXTN. BHELUPUR, VARANASI-221010 TEL : 0542-2277074