



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

DATED 22.12.2015

Our Ref : ECO/BIHAR/EMR/22122015/8

Sub : Environmental Monitoring Results of M/s. Eco Cements Limited, Bhabhua for the period of APRIL 2015 TO SEP 2015

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 2015 TO SEP 2015

Kindly acknowledge the receipt and oblige.

Thanking you in anticipation,
For Eco Cements Limited

ECO CEMENTS LTD.
Rajiv Saini
Authorized Signatory
Auth. Signatory

Encl.

1. Environmental Monitoring results of M/s. Eco Cements Limited, Bhabhua for the period of APRIL 2015 TO SEP 2015

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: 2015-16(APRIL 2015 TO SEPTEMBER 2015.)													
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-15	70.1	9.7	12.2	70.9	10.9	11.2	69.4	11.3	12	70.2	11.6	9.8
2	May-15	71.4	9.9	11.7	70.5	10.8	12	69.5	12.4	12.5	71.1	12.1	10
3	Jun-15	70.3	9.8	11.1	70.8	11.6	11.9	67.4	11.3	12.3	66.8	11.3	9.5
4	Jul-15	71.9	8.8	11.4	69.9	11.4	11.7	69.2	12.1	13	69.2	12	10.4
5	Aug-15	69.7	9.7	12	70.7	11.3	11.4	69.4	10.8	11.6	71	1.8	10.2
6	Sep-15	72.2	9.9	10.1	69.8	10.9	11	68.1	10.7	12	68.5	9.8	10.4
Average		70.93	9.63	11.41	70.43	11.15	11.53	68.83	11.43	12.23	69.46	9.76	10.05

ECO CEMENTS LIMITED

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

Zonal Office : HIG-195, SailshreeVihar, Chandrasekharpur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in
: 1644, Beriya Road, Kulharia, Durguati, Bhabua(Kamur), Bihar- 821105.



Stack Emission Level Monitoring Report for the period APRIL 2015 TO SEPTEMBER 2015 All Values in mg/m3								
Sr. No.	Month & Year	Particulate Matter Emission (mg/Nm3)						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-15	40.5	43.6	39.1	44.3	34.7	39.2	50 mg/Nm3
2	May-15	39.5	43.3	44.9	35.5	41.6	43.5	
3	Jun-15	36.4	43.6	40.5	44.3	38.1	35.5	
4	Jul-15	43.1	46.3	39.1	41.85	37.05	44.3	
5	Aug-15	38.9	44.2	35.2	35.0	41.1	39.8	
6	Sep-15	35.8	43.9	40.2	37.1	43.8	35.02	
Average Values		39.03	44.15	39.83	39.68	39.39	39.55	

ECO CEMENTS LIMITED

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

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

: 1644, Beriya Road, Kulharia, Durguati, Bhabua(Kamur), Bihar- 821105.



Ambient Noise level Monitoring Report From APRIL 2015 TO SEPTEMBER 2015 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-15	61.0	62.3	60.8	60.0	62.5	75dB(A) in day & 70 dB(A) in night
2	May-15	61.5	62.7	63.6	62.8	60.1	
3	Jun-15	60.2	61.8	60.5	63.1	62.7	
4	Jul-15	60.8	62.6	61.5	62.3	62.5	
5	Aug-15	60.6	61.3	62.0	60.4	60.3	
6	Sep-15	61.5	62.8	60.7	60.9	61.5	
Average Values		60.90	62.25	61.51	61.60	61.60	

ECO CEMENTS LIMITED

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



Fugitive Dust Emission Level Monitoring Report for the period APRIL 2015 TO SEPTEMBER 2015						
Concentration of Total Dust (All Values in mg/m³)						
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-15	3.5	4.2	2.8	4.7	3.5
2	May-15	3.2	4.8	2.3	5.2	3.8
3	Jun-15	3.7	4.0	2.6	5.5	3.1
4	Jul-15	3.2	4.3	3.2	5.1	3.4
5	Aug-15	3.6	4.8	2.8	4.9	3.8
6	Sep-15	2.8	4.1	3.6	5.8	3.6
Average		3.3	4.4	2.9	5.2	3.5

ECO CEMENTS LIMITED

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

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

: 1644, Beriya Road, Kulharia,Durguati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- AAQ/15/125

Dated:16.04.2015

(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

16.04.2015

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)	70.8,68.0, 71.5	71.8,71.2,69.8	69.6,68.4, 70.4	68.7,71.4, 70.5	100 µg/m ³
2. Sulphur Dioxide as SO ₂ µg/m ³	IS 5182 (Part-2)	9.0,9.6, 10.7	10.9,11.9,9.9	11.9,11.6, 10.5	11.4,12.6, 10.8	80 µg/m ³
3. Nitrogen Dioxide as NO ₂ µg/m ³	IS 5182 (Part-2)	12.1,12.9, 11.6	10.9,11.7,11.1	13.0,11.9, 11.1	9.5,9.9, 10.2	80 µg/m ³
Average Value						
PM ₁₀		70.1	70.9	69.4	70.2	
SO ₂		9.7	10.9	11.3	11.6	
NO ₂		12.2	11.2	12.0	9.8'	

ECO CEMENTS LTD.

Gsmite

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, Durgawati, Bhabhua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- AAQ/15/126		Dated:15.05.2015				
(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	15.05.2015					
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)	72.7,69.0,72.5	72.6,70.2,68.8	68.6,67.4,69.4	68.8,71.9,72.7	100 $\mu\text{g}/\text{m}^3$
2. Sulphur Dioxide as SO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	10.0,9.9,9.7	10.6,12.9,8.9	11.5,12.9,12.8	11.7,12.9,11.7	80 $\mu\text{g}/\text{m}^3$
3. Nitrogen Dioxide as NO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	11.8,11.9,11.4	11.7,11.4,12.9	14.0,11.2,12.5	9.8,9.4,10.9	80 $\mu\text{g}/\text{m}^3$
Average Value						
PM ₁₀		71.4	70.5	69.5	71.1	
SO ₂		9.9	10.8	12.4	12.1	
NO ₂		11.7	12.0	12.5	10.0	

ECO CEMENTS LTD.

G. Singh

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, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- AAQ/15/127

Dated:18.06.2015

(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

18.06.2015

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)	70.5,68.0,72.4	71.6,71.2,69.8	67.6,66.4, 68.4	67.7,67.4, 65.5	100 µg/m ³
2. Sulphur Dioxide as SO ₂ µg/m ³	IS 5182 (Part-2)	9.7,9.5,10.2	11.6,12.8,10.5	11.3,11.5, 10.5	11.2,12.5, 10.4	80 µg/m ³
3. Nitrogen Dioxide as NO ₂ µg/m ³	IS 5182 (Part-2)	11.5,10.7,11.2	12.9,11.7,11.3	12.8,11.5, 12.6	9.8,9.3, 9.5	80 µg/m ³
Average Value						
PM ₁₀		70.3	70.8	67.4	66.8	
SO ₂		9.8	11.6	11.3	11.3	
NO ₂		11.1	11.9	12.3	9.5	

ECO CEMENTS LTD.
G. Singh
Auth. Signatory

ECO CEMENTS LIMITED

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

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

: 1644, Beriya Road, Kulharia,Durguati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- AAQ/15/128		Dated:22.07.2015				
(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	22.07.2015					
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)	70.8,72.3, 72.6	71.6,68.5,69.8	69.6, 65.4, 72.8	66.7,70.4, 70.5	100 µg/m ³
2. Sulphur Dixide as SO ₂ µg/m ³	IS 5182 (Part-2)	9.0,8.9, 8.7	11.8,12.6,9.8	11.9,12.6, 11.8	12.7,11.9, 11.6	80 µg/m ³
3. Nitrogen Dixide as NO ₂ µg/m ³	IS 5182 (Part-2)	11.3,12.8, 10.2	11.5,11.9,11.7	13.5,12.2, 13.5	10.2,9.8, 11.2	80 µg/m ³
Average Value						
PM ₁₀		71.9	69.9	69.2	69.2	
SO ₂		8.8	11.4	12.1	12.0	
NO ₂		11.4	11.7	13.0	10.4	

ECO CEMENTS LTD.

G. Singh
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

: 1644, Beriya Road, Kulharia,Durguati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- AAQ/15/129		Dated:24.08.2015				
(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	24.08.2015					
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)	70.7,68.2, 70.4	69.6,72.2,70.3	69.6,68.4, 70.4	69.7,72.4, 70.9	100 µg/m ³
2. Sulphur Dioxide as SO ₂ µg/m ³	IS 5182 (Part-2)	9.0,9.6, 10.7	11.9,12.9,9.1	11.9,10.2, 10.5	12.6,11.6, 11.2	80 µg/m ³
3. Nitrogen Dioxide as NO ₂ µg/m ³	IS 5182 (Part-2)	12.7,11.9, 11.5	11.9,10.2,12.1	12.0,11.6, 11.4	9.9,9.7, 11.2	80 µg/m ³
Average Value						
PM ₁₀		69.8	70.7	69.4	71.0	
SO ₂		9.7	11.3	10.8	11.8	
NO ₂		12.0	11.4	11.6	10.2	

ECO CEMENTS LTD.

G. Singh

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

: 1644, Beriya Road, Kulharia,Durguati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- AAQ/15/130		Dated:21.09.2015				
(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	21.09.2015					
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)	69.3, 71.5, 75.8	67.5, 72.5, 69.6	70.3, 66.5, 67.7	65.8, 70.3, 69.5	100 $\mu\text{g}/\text{m}^3$
2. Sulphur Dioxide as SO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	10.5, 9.7, 9.6	11.9, 11.2, 9.7	10.6, 9.9, 11.6	10.6, 9.6, 9.2	80 $\mu\text{g}/\text{m}^3$
3. Nitrogen Dioxide as NO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	10.2, 10.5, 9.8	10.8, 10.5, 11.8	13.0, 11.4, 11.7	9.5, 10.4, 11.4	80 $\mu\text{g}/\text{m}^3$
Average Value						
PM ₁₀		72.2	69.8	68.1	68.5	
SO ₂		9.9	10.9	10.7	9.8	
NO ₂		10.1	11.0	12.0	10.4	

ECO CEMENTS LTD.

G. Singh

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- ANL/15/162

Dated:18.04.2015

(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	18.04.2015
Sampling Locations		Time weighted Average (TWA) Of Noise Level in db(A)
1	Near Main Gate	61
2	Near CCR	62.3
3	Near Canteen	60.8
4	Near Gypsum Storage Area	60
5	Near Clinker storage Area	62.5
N.B.:	<p>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 area/zone.</p>	

ECO CEMENTS LTD.

G. Singh

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

: 1644, Beriya Road, Kulharia,Durguati, Bhabhua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- ANL/15/163

Dated:23.05.2015

(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	23.05.2015
Sampling Locations		Time weighted Average (TWA) Of Noise Level in db(A)
1	Near Main Gate	61.5
2	Near CCR	62.7
3	Near Canteen	63.6
4	Near Gypsum Storage Area	62.8
5	Near Clinker storage Area	60.1
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 area/zone.	

ECO CEMENTS LTD.

Gomign
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
: 1644, Beriya Road, Kulharia,Durguati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- ANL/15/164

Dated:13.06.2015

(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	13.06.2015
Sampling Locations		Time weighted Average (TWA) Of Noise Level in db(A)
1	Near Main Gate	60.2
2	Near CCR	61.8
3	Near Canteen	60.5
4	Near Gypsum Storage Area	63.1
5	Near Clinker storage Area	62.7
N.B.:	<p>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 area/zone.</p>	

ECO CEMENTS LTD.

Gsmig
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

: 1644, Beriya Road, Kulharia,Durguati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- ANL/15/165

Dated:16.07.2015

(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	16.07.2015
Sampling Locations		Time weighted Average (TWA) Of Noise Level in db(A)
1	Near Main Gate	60.8
2	Near CCR	62.6
3	Near Canteen	61.5
4	Near Gypsum Storage Area	62.3
5	Near Clinker storage Area	62.5
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 area/zone.	

ECO CEMENTS LTD.

Gsmigh
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

: 1644, Beriya Road, Kulharia,Durguati, Bhabua(Kamur), Bihar- 821105.

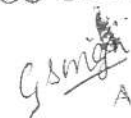
TEST REPORT

Ref. No. ECO/P- ANL/15/166

Dated:20.08.2015

(a)	Name and address	<p>ECO Cement Ltd. Vill.: Mahmoodganj. At. Kulharia, Durgawati. Dist.: Bhabhua</p>
(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	20.08.2015
Sampling Locations		Time weighted Average (TWA) Of Noise Level in db(A)
1	Near Main Gate	60.6
2	Near CCR	61.3
3	Near Canteen	62.0
4	Near Gypsum Storage Area	60.4
5	Near Clinker storage Area	60.3
N.B.:	<p>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 area/zone.</p>	

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, Bhubaneswar, Orissa, Email - enquiry@ecocem.in
 : 1644, Beriya Road, Kulharia,Durguati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- ANL/15/167

Dated:14.09.2015

(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	14.09.2015
Sampling Locations		Time weighted Average (TWA) Of Noise Level in db(A)
1	Near Main Gate	61.5
2	Near CCR	62.8
3	Near Canteen	60.7
4	Near Gypsum Storage Area	60.9
5	Near Clinker storage Area	61.5
N.B.:	<p>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 area/zone.</p>	

ECO CEMENTS LTD.

G. Singh
Auth. Signatory

ECO CEMENTS LIMITED

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

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

: 1644, Beriya Road, Kulharia,Durguati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- FDE/15/156

Dated: 18.04.2015

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

(a) Name and address

(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

18.04.2015

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	3.5	10.0	1.35	5.0
2	Mill Section 01 st Floor	4.2	10.0	1.4	5.0
3	Mill Section 02 nd Floor	2.8	10.0	1.8	5.0
4	South Side of Mill section	4.7	10.0	1.7	5.0
5	North Side of Mill section	3.5	10.0	1.3	5.0

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

ECO CEMENTS LTD.

G. Singh
 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
 : 1644, Beriya Road, Kulharia,Durguati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- FDE/15/157

Dated: 20.05.2015

(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	20.05.2015			
S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc.*	Concentration of Respirable Dust	Permissible TWA Conc.*
		mg/M ³	mg/M3	mg/M3	mg/M3
1	Mill Section Ground Floor	3.2	10.0	1.35	5.0
2	Mill Section 01 st Floor	4.8	10.0	1.6	5.0
3	Mill Section 02 nd Floor	2.3	10.0	1.48	5.0
4	South Side of Mill section	5.2	10.0	1.5	5.0
5	North Side of Mill section	3.8	10.0	1.7	5.0
* Permissible time Weighted (TWA) Conc ⁿ . Based on Silica Content as per Factories Act '1948 Second Schedule.					

ECO CEMENTS LTD.

G. Singh

Auth. Signatory

ECO CEMENTS LIMITED

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

Zonal Office : HIG-195, Saileshree Vihar, Chandrasekharapur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in

: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- FDE/15/158

Dated: 23.06.2015

(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	23.06.2015			
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	3.7	10.0	1.32	5.0
2	Mill Section 01 st Floor	4.0	10.0	1.41	5.0
3	Mill Section 02 nd Floor	2.6	10.0	1.6	5.0
4	South Side of Mill section	5.5	10.0	1.32	5.0
5	North Side of Mill section	3.1	10.0	1.45	5.0
* Permissible time Weighed (TWA) Conc ⁿ . Based on Silica Content as per Factories Act '1948 Second Schedule.					

ECO CEMENTS LTD.

G. Singh

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, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- FDE/15/159

Dated: 17.07.2015

(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	17.07.2015			
S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Concn.*	Concentration of Respirable Dust	Permissible TWA Concn.*
		mg/M ³	mg/M3	mg/M3	mg/M3
1	Mill Section Ground Floor	3.2	10.0	1.34	5.0
2	Mill Section 01 st Floor	4.3	10.0	1.42	5.0
3	Mill Section 02 nd Floor	3.2	10.0	1.53	5.0
4	South Side of Mill section	5.1	10.0	1.3	5.0
5	North Side of Mill section	3.4	10.0	1.55	5.0
* Permissible time Weighed (TWA) Concn 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

Zonal Office : HIG-195, Saileshree Vihar, Chandrasekharpur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in
 : 1644, Beriya Road, Kulharia, Durgawati, Bhabhua (Kamur), Bihar- 821105.


TEST REPORT

Ref. No. ECO/P- FDE/15/160

Dated: 20.08.2015

(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	20.08.2015			
S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc.*	Concentration of Respirable Dust	Permissible TWA Conc.*
		mg/M ³	mg/M3	mg/M3	mg/M3
1	Mill Section Ground Floor	3.6	10.0	1.36	5.0
2	Mill Section 01 st Floor	4.8	10.0	1.72	5.0
3	Mill Section 02 nd Floor	2.8	10.0	1.8	5.0
4	South Side of Mill section	4.9	10.0	1.5	5.0
5	North Side of Mill section	3.8	10.0	1.3	5.0
<p>* Permissible time Weighed (TWA) Concⁿ: Based on Silica Content as per Factories Act '1948 Second Schedule.</p>					

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, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- FDE/15/161

Dated: 18.09.2015

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

(a) Name and address

(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

18.09.2015

S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc.*	Concentration of Respirable Dust	Permissible TWA Conc.*
		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	4.1	10.0	1.4	5.0
3	Mill Section 02 nd Floor	3.6	10.0	1.7	5.0
4	South Side of Mill section	5.8	10.0	1.42	5.0
5	North Side of Mill section	3.6	10.0	1.5	5.0

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

ECO CEMENTS LTD.

G. Singh

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/144

Dated: 14.04.2015

(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	14.04.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter attached Cement Mill Vent	
2	Height of Stack		33 m	
3	Dia of Stack at Top		1.2 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		31	
7	Fuel Gas Temperature, °C		84	
8	Velocity, m/sec	IS 11255 (Part-3)	7.3	
9	Sampling Point		21 m	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	40.5	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)	9.8	Not specified

ECO CEMENTS LTD.

G. Singh

Anth. 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, Durgawati, Bhabua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/145

Dated: 13.05.2015

(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	13.05.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter attached Cement Mill Vent	
2	Height of Stack		33 m	
3	Dia of Stack at Top		1.2 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		33	
7	Fuel Gas Temperature, °C		87	
8	Velocity, m/sec	IS 11255 (Part-3)	7.4	
9	Sampling Point		21 m	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	39.5	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)	13.2	Not specified

ECO CEMENTS LTD.

G. Singh
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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/146

Dated: 17.06.2015

(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	17.06.2015			
Parameters		Method of Test	Results		
1	Stack Connected to		Bag Filter attached Cement Mill Vent		
2	Height of Stack		33 m		
3	Dia of Stack at Top		1.2 m		
4	Draft		I D Fan		
5	Material of Construction		M.S.		
6	Ambient Temperature, °C		32		
7	Fuel Gas Temperature, °C		85		
8	Velocity, m/sec		IS 11255 (Part-3)	7.3	
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)	10.6	Not specified	

ECO CEMENTS LTD.

G. Singh
Auth. Signatory

ECO CEMENTS LIMITED

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

Zonal Office : HIG-195, Saileshree Vihar, Chandrasekharapur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in

: 1644, Beriya Road, Kulharia, Durgawati, Bhabua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/147

Dated: 21.07.2015

(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	21.07.2015			
Parameters		Method of Test	Results		
1	Stack Connected to		Bag Filter attached Cement Mill Vent		
2	Height of Stack		33 m		
3	Dia of Stack at Top		1.2 m		
4	Draft		I D Fan		
5	Material of Construction		M.S.		
6	Ambient Temperature, °C		30		
7	Fuel Gas Temperature, °C		82		
8	Velocity, m/sec		IS 11255 (Part-3)	7.3	
9	Sampling Point			21 m	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules	
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	43.1	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)	10.6	Not specified	

ECO CEMENTS LTD.

G. Singh
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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/148

Dated: 18.08.2015

(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	18.08.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter attached Cement Mill Vent	
2	Height of Stack		33 m	
3	Dia of Stack at Top		1.2 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		30	
7	Fuel Gas Temperature, °C		83	
8	Velocity, m/sec	IS 11255 (Part-3)	7.36	
9	Sampling Point		21 m	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	38.9	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)	10.4	Not specified

ECO CEMENTS LTD.

G. Singh

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/149

Dated: 22.09.2015

(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	22.09.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter attached Cement Mill Vent	
2	Height of Stack		33 m	
3	Dia of Stack at Top		1.2 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		29	
7	Fuel Gas Temperature, °C		80	
8	Velocity, m/sec	IS 11255 (Part-3)	7.33	
9	Sampling Point		21 m	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	35.8	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)	11.5	Not specified

ECO CEMENTS LTD.

G. Singh

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/145

Dated: 15.04.2015

(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	15.04.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Fly ash Unloading Area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		1.05 m	
4	Draft		ID Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		31	
7	Fuel Gas Temperature, °C		35	
8	Velocity, m/sec	IS 11255 (Part-3)	6.1	
9	Sampling Point		14 m	
			Concentration (mg / NM³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	43.6	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)	13.6	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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/146

Dated: 22.05.2015

(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	22.05.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Fly ash Unloading Area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		1.05 m	
4	Draft		ID Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		33	
7	Fuel Gas Temperature, °C		38	
8	Velocity, m/sec	IS 11255 (Part-3)	6.15	
9	Sampling Point		14 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	43.3	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)	15.8	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh

Auth. Signatory

ECO CEMENTS LIMITED

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

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/147

Dated: 18.06.2015

(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	18.06.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Fly ash Unloading Area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		1.05 m	
4	Draft		ID Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		31	
7	Fuel Gas Temperature, °C		36	
8	Velocity, m/sec	IS 11255 (Part-3)	6.1	
9	Sampling Point		14 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	43.6	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)	15.3	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh
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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/148		Dated: 13.07.2015		
(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	13.07.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Fly ash Unloading Area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		1.05 m	
4	Draft		ID Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		30	
7	Fuel Gas Temperature, °C		34	
8	Velocity, m/sec	IS 11255 (Part-3)	6.1	
9	Sampling Point		14 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	46.3	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)	14.1	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh
Auth. Signatory

ECO CEMENTS LIMITED

Corp. Office : 72, Jawaharnagar Extn, Bhelupur, Varanasi-221010. Telefax – 0542-2277074
 Zonal Office : HIG-195, SaileshreeVihar, Chandrasekharapur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in
 : 1644, Beriya Road, Kulharia, Durgawati, Bhabhua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/149

Dated: 21.08.2015

(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	21.08.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Fly ash Unloading Area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		1.05 m	
4	Draft		ID Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		30	
7	Fuel Gas Temperature, °C		36	
8	Velocity, m/sec	IS 11255 (Part-3)	6.1	
9	Sampling Point		14 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	44.2	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)	16.5	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh
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
 : 1644, Beriya Road, Kulharia, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/150

Dated: 15.09.2015

(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	15.09.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Fly ash Unloading Area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		1.05 m	
4	Draft		ID Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		29	
7	Fuel Gas Temperature, °C		33	
8	Velocity, m/sec	IS 11255 (Part-3)	6.1	
9	Sampling Point		14 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	43.9	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)	16.4	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh

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, Durgawati, Bhabua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/120

Dated: 16.04.2015

(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	16.04.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Clinker-Gypsum Unloading Area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		0.75 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		31	
7	Fuel Gas Temperature, °C		38	
8	Velocity, m/sec	IS 11255 (Part-3)	5.9	
9	Sampling Point		11 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	39.1	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)	15.2	Not specified

ECO CEMENTS LTD.

G. Singh

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/121

Dated: 21.05.2014

(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	21.05.2014		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Clinker-Gypsum Unloading Area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		0.75 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		33	
7	Fuel Gas Temperature, °C		40	
8	Velocity, m/sec	IS 11255 (Part-3)	5.9	
9	Sampling Point		11 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	44.9	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)	17.3	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, Bhubaneswar, Orissa, Email - enquiry@ecocem.in
 : 1644, Beriya Road, Kulharia, Durgawati, Bhabhua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/122

Dated: 11.06.2015

(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	11.06.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Clinker-Gypsum Unloading Area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		0.75 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		31	
7	Fuel Gas Temperature, °C		38	
8	Velocity, m/sec	IS 11255 (Part-3)	5.9	
9	Sampling Point		11 m	
			Concentration (mg / NM³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	40.5	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)	18.5	Not specified

ECO CEMENTS LTD.

G. Singh

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/123

Dated: 18.07.2015

(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	18.07.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Clinker-Gypsum Unloading Area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		0.75 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		30	
7	Fuel Gas Temperature, °C		41	
8	Velocity, m/sec	IS 11255 (Part-3)	5.9	
9	Sampling Point		11 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	39.1	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)	16.8	Not specified

ECO CEMENTS LTD.

G. Singh

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/124

Dated: 20.08.2015

(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	20.08.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Clinker-Gypsum Unloading Area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		0.75 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		30	
7	Fuel Gas Temperature, °C		39	
8	Velocity, m/sec	IS 11255 (Part-3)	5.9	
9	Sampling Point		11 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	35.2	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)	15.2	Not specified

ECO CEMENTS LTD.

G. Singh
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, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/125

Dated: 23.09.2015

(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	23.09.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Clinker-Gypsum Unloading Area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		0.75 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		29	
7	Fuel Gas Temperature, °C		36	
8	Velocity, m/sec	IS 11255 (Part-3)	5.9	
9	Sampling Point		11 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	40.2	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)	17.8	Not specified

ECO CEMENTS LTD.

G. Singh

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, Durgawati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/153

Dated: 14.04.2015

(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	14.04.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag filter at Clinker-Gypsum Feeding area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		0.6 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		31	
7	Fuel Gas Temperature, °C		36	
8	Velocity, m/sec	IS 11255 (Part-3)	5.9	
9	Sampling Point		9 m	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	44.3	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)	9.8	Not specified

ECO CEMENTS LTD.

G Singh
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, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/154

Dated: 18.05.2015

(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	18.05.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag filter at Clinker-Gypsum Feeding area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		0.6 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		33	
7	Fuel Gas Temperature, °C		38	
8	Velocity, m/sec	IS 11255 (Part-3)	5.9	
9	Sampling Point		9 m	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	35.5	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)	10.5	Not specified

ECO CEMENTS LTD.

G. Singh

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, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/155

Dated: 12.06.2015

(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	12.06.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag filter at Clinker-Gypsum Feeding area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		0.6 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		31	
7	Fuel Gas Temperature, °C		36	
8	Velocity, m/sec	IS 11255 (Part-3)	5.9	
9	Sampling Point		9 m	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	44.3	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)	9.8	Not specified

ECO CEMENTS LTD.

G. Singh

Auth. Signatory

ECO CEMENTS LIMITED

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

Zonal Office : HIG-195, Saileshree Vihar, Chandrasekharapur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in
: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/156

Dated: 23.07.2015

(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	23.07.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag filter at Clinker-Gypsum Feeding area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		0.6 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		30	
7	Fuel Gas Temperature, °C		35	
8	Velocity, m/sec	IS 11255 (Part-3)	5.9	
9	Sampling Point		9 m	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	41.85	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)	10.5	Not specified

ECO CEMENTS LTD.

G. Singh
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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/157

Dated: 14.08.2015

(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	14.08.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag filter at Clinker-Gypsum Feeding area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		0.6 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		30	
7	Fuel Gas Temperature, °C		35	
8	Velocity, m/sec	IS 11255 (Part-3)	5.9	
9	Sampling Point		9 m	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	35.0	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

ECO CEMENTS LTD.

G. Singh

Auth. Signatory

ECO CEMENTS LIMITED

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

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/158

Dated: 19.09.2015

(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	19.09.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag filter at Clinker-Gypsum Feeding area	
2	Height of Stack		30 m	
3	Dia of Stack at Top		0.6 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		29	
7	Fuel Gas Temperature, °C		34	
8	Velocity, m/sec	IS 11255 (Part-3)	5.9	
9	Sampling Point		9 m	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	37.1	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.

G Singh
Auth. Signatory

ECO CEMENTS LIMITED

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

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

: 1644, Beriya Road, Kulharia,Durguati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/134

Dated: 15.04.2015

(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 of 500 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	15.04.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		500 KVA DG Set	
2	Height of Stack		14 m (Above Nearest Building)	
3	Dia of Stack at Top		0.2 m	
4	Draft		Natural	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		31	
7	Fuel Gas Temperature, °C		72	
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)	34.7	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	67.1	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	185.3	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh

Anth. Signatory

ECO CEMENTS LIMITED

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

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/135

Dated: 18.05.2015

(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 of 500 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	18.05.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		500 KVA DG Set	
2	Height of Stack		14 m (Above Nearest Building)	
3	Dia of Stack at Top		0.2 m	
4	Draft		Natural	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		33	
7	Fuel Gas Temperature, °C		75	
8	Velocity, m/sec	IS 11255 (Part-3)	6.3	
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)	41.6	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	71.7	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	193.5	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh



Auth. Signatory

ECO CEMENTS LIMITED

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

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/136

Dated: 20.06.2015

(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 of 500 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	20.06.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		500 KVA DG Set	
2	Height of Stack		14 m (Above Nearest Building)	
3	Dia of Stack at Top		0.2 m	
4	Draft		Natural	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		32	
7	Fuel Gas Temperature, °C		73	
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)	38.1	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	65.7	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	184.2	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh
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, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/137

Dated: 17.07.2015

(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 of 500 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	17.07.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		500 KVA DG Set	
2	Height of Stack		14 m (Above Nearest Building)	
3	Dia of Stack at Top		0.2 m	
4	Draft		Natural	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		30	
7	Fuel Gas Temperature, °C		72	
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)	37.05	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	69.3	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	185.6	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh

Auth. Signatory

ECO CEMENTS LIMITED

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

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/138

Dated: 21.08.2015

(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 of 500 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	21.08.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		500 KVA DG Set	
2	Height of Stack		14 m (Above Nearest Building)	
3	Dia of Stack at Top		0.2 m	
4	Draft		Natural	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		30	
7	Fuel Gas Temperature, °C		73	
8	Velocity, m/sec	IS 11255 (Part-3)	6.28	
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)	41.1	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	65.9	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	183.5	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/139

Dated: 15.09.2015

(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 of 500 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	15.09.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		500 KVA DG Set	
2	Height of Stack		14 m (Above Nearest Building)	
3	Dia of Stack at Top		0.2 m	
4	Draft		Natural	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		29	
7	Fuel Gas Temperature, °C		68	
8	Velocity, m/sec	IS 11255 (Part-3)	6.24	
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)	43.8	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	70.7	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	188.5	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh
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, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/130

Dated: 15.04.2015

(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 of 125 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	15.04.2015		
	Parameters	Method of Test	Results	
1	Stack Connected to		125 KVA DG Set	
2	Height of Stack		14 m (Above Nearest Building)	
3	Dia of Stack at Top		0.13 m	
4	Draft		Natural	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		31	
7	Fuel Gas Temperature, °C		60	
8	Velocity, m/sec	IS 11255 (Part-3)	6.3	
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)	39.2	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	57.5	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	170.2	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh



Auth. Signatory

ECO CEMENTS LIMITED

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

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/131

Dated: 18.05.2015

(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 of 125 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	18.05.2015		
	Parameters	Method of Test	Results	
1	Stack Connected to		125 KVA DG Set	
2	Height of Stack		14 m (Above Nearest Building)	
3	Dia of Stack at Top		0.13 m	
4	Draft		Natural	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		33	
7	Fuel Gas Temperature, °C		64	
8	Velocity, m/sec	IS 11255 (Part-3)	6.4	
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)	43.5	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	51.8	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	179.3	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh

Auth. Signatory

ECO CEMENTS LIMITED

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

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/132

Dated: 13.06.2015

(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 of 125 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	13.06.2015		
	Parameters	Method of Test	Results	
1	Stack Connected to		125 KVA DG Set	
2	Height of Stack		14 m (Above Nearest Building)	
3	Dia of Stack at Top		0.13 m	
4	Draft		Natural	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		32	
7	Fuel Gas Temperature, °C		62	
8	Velocity, m/sec	IS 11255 (Part-3)	6.38	
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)	35.5	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	60.2	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	173.4	710.00 mg/NM ³

ECO CEMENTS LTD.

Gsmigh
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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/133

Dated: 21.07.2015

(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 of 125 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	21.07.2015		
	Parameters	Method of Test	Results	
1	Stack Connected to		125 KVA DG Set	
2	Height of Stack		14 m (Above Nearest Building)	
3	Dia of Stack at Top		0.13 m	
4	Draft		Natural	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		30	
7	Fuel Gas Temperature, °C		59	
8	Velocity, m/sec	IS 11255 (Part-3)	6.3	
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)	44.3	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	54.5	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	180.3	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh

Auth. Signatory

ECO CEMENTS LIMITED

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

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/134

Dated: 18.08.2015

(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 of 125 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	18.08.2015		
	Parameters	Method of Test	Results	
1	Stack Connected to		125 KVA DG Set	
2	Height of Stack		14 m (Above Nearest Building)	
3	Dia of Stack at Top		0.13 m	
4	Draft		Natural	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		30	
7	Fuel Gas Temperature, °C		60	
8	Velocity, m/sec	IS 11255 (Part-3)	6.3	
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)	39.8	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	55.2	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	178.3	710.00 mg/NM ³

ECO CEMENTS LTD.

G. Singh

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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/15/135

Dated: 15.09.2015

(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 of 125 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	15.09.2015		
	Parameters	Method of Test	Results	
1	Stack Connected to		125 KVA DG Set	
2	Height of Stack		14 m (Above Nearest Building)	
3	Dia of Stack at Top		0.13 m	
4	Draft		Natural	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		29	
7	Fuel Gas Temperature, °C		58	
8	Velocity, m/sec	IS 11255 (Part-3)	6.3	
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)	35.02	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	57.9	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	176.2	710.00 mg/NM ³

ECO CEMENTS LTD.
Gomish
 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

: 1644, Beriya Road, Kulharia, Durgawati, Bhabua (Kamur), Bihar- 821105.

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
CIN : U74899DL1987PTC029919

Calibration Report

Customer : Eco Cements Ltd.
Plot No – 1644, Bheriya More
Kutharia Durgauti Bhabhua,
Bihar - 821105

Instrument : VAYUBODHAN STACK SAMPLER VSS1

Serial No. : 186 DTF 13

Date Of calibration : 10/04/2015

Next Calibration due on : 09/04/2016

Certificate No. : 090/2015-16

Details of reference units against which above instrument is calibrated.

Details	Rotameter	Rotameter	Digital Pressure Meter for Manometer
Serial No.	E13B242	E 138244	VMM-2
Model / Type	0 – 50 LPM	0 – 5 LPM	Testo 506
Authority	FCRI	FCRI	FCRI
Certificate No.	CA 1669 1411 509 Dated 30/12/2014	CA 1669 1411 508 Dated 30/12/2014	PSL/1670/1114/P/1171 Dated 26/11/2014
Validity Upto	26/11/2015	26/11/2015	25/11/2015

Details	Digital Pressure Meter For Vacuum Gauge	Vernier Caliper For Nozzle	Stop Watch
Serial No.	VDM - 2	0004998	VSW- 2
Model / Type	Testo 506	0-150 mm	-----
Authority	FCRI	SIIR	ERTL
Certificate No.	PSL/1670/1114/P/1172 Dated 26/11/2014	000046494 dated 22/12/2014	ERTL (N)/ 90 (4) –(2014-15)/A1224 Dated 07/01/2015
Validity Upto	25/11/2015	22/12/2015	07/01/2016

Details	Pyrometer K Type
Serial No.	1217713/VPK-2
Model / Type	K Type
Authority	SIIR
Certificate No.	000045725 dated 05/02/2014
Validity Upto	05/02/2016

(ERTL: Electronics Regional Test Laboratory (North) Delhi, FCRI: Fluid Control Research Institute, Palakkad, Kerala, SIIR: Shriram Institute for Industrial Research, Delhi)

Ambient Temperature : 30 deg C
Accuracy : 2% FSD

For VAYUBODHAN UPKARAN PVT. LTD.


AUTHORIZED SIGNATORY

(Test data results are enclosed herewith)

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
CIN : U74899DL1987PTC029919

Annexure to Certificate No.: 090/2015 -16

TEST READINGS

1. Manometer Testing: M - 186

#	TEST PIECE mm Water	MASTER mm Water	DIFFERENCE
1	16.8	17.5	0.7
2	20.1	20.7	0.6
3	23.4	24.1	0.7
4	35.4	36.4	1.0
5	44.4	45.8	1.4

2. Rotameter (0-3 lpm) Sr. No: D13A974

#	TEST PIECE lpm	MASTER lpm	DIFFERENCE
1	0.5	0.54	0.04
2	1.0	0.98	0.02
3	1.5	1.48	0.02
4	2.0	2.00	0.00
5	2.5	2.48	0.02
6	3.0	3.02	0.02

3. Rotameter (0-30 lpm) Sr. No: D13B011

#	TEST PIECE lpm	MASTER lpm	DIFFERENCE
1	5	5.4	0.4
2	10	10.4	0.4
3	15	15.2	0.2
4	20	20.6	0.6
5	25	25.2	0.2
6	30	30.2	0.2

4. Pyrometer Testing (K type) P - 186

#	TEST PIECE °C	MASTER °C
1	32	32
2	150	150
3	205	205
4	309	309
5	412	412
6	500	500

5. Nozzle

#	NOZZLE SIZE inch	NOZZLE DIA mm
1	1/8	3.14
2	1/4	6.70
3	3/8	9.56

6. Stop Watch. S - 186

#	TEST PIECE min	MASTER min
1	18M:43.44S	18M:43.42S
2	20M:44.61S	20M:44.57S

7. Vacuum Gauge.V - 186 (FOR PM)

#	TEST PIECE mmHg	MASTER mmHg
1	50	50.8
2	100	101.6

8. Vacuum Gauge.V - 186 (FOR GAS)

#	TEST PIECE mmHg	MASTER mmHg
1	50	51.1
2	100	101.4

Prepared by: 

Tested by: 

Checked by: 

Date : 10/04/2015

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
CIN : U74899DL1987PTC029919

Calibration Report

Customer : Eco Cements Ltd.
Plot No – 1644, Bheriya More
Kutharia Durgauti Bhabhua,
Bihar - 821105

Instrument : RESPIRABLE DUST SAMPLER APM 460 BL – 411

Serial No. : 2609 DTE 2013/844 DTB 2013

Date of Calibration : 10/04/2015

Next Calibration due on : 09/04/2016

Certificate No. : 091/2015 -16

Details of reference units against which above instrument is calibrated.

<u>Details</u>	<u>Time Totalizer</u>	<u>Digital Pressure Meter for Manometer</u>
<u>Serial No.</u>	VTT -2	VMM-2
<u>Model / Type</u>	-----	Testo 506
<u>Authority</u>	ERTL	FCRI
<u>Certificate No.</u>	ERTL (N) / 90 (4) – (2014-15) A1223 Dated 26/12/2014	PSL/1670/1114/P/1171 Dated 26/11/2014
<u>Validity Upto</u>	26/12/2015	25/11/2015

<u>Details</u>	<u>Top Loading Orifice</u>	<u>Rotameter</u>
<u>Serial No.</u>	VTL -02	E 138244
<u>Model / Type</u>	0 – 5 LPM
<u>Authority</u>	FCRI	FCRI
<u>Certificate No.</u>	CA 1669 1411 511 Dated 30/12/2014	CA 1669 1411 508 Dated 30/12/2014
<u>Validity Upto</u>	19/11/2015	26/11/2015

(ERTL: Electronics Regional Test Laboratory (North) Delhi, FCRI: Fluid Control Research Institute, Palakkad, Kerala, SIIR : Shriram Institute for Industrial Research, Delhi)

Ambient Temperature : 30 deg C
Accuracy : 2% FSD

For VAYUBODHAN UPKARAN PVT. LTD.


AUTHORIZED SIGNATORY

(Test data results are enclosed herewith)

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
CIN : U74899DL1987PTC029919

Annexure to Certificate No.: 091/2015 - 16

TEST READINGS

ORIFICE

O - 2609

#	TEST PIECE Cu m/min	MASTER mm /H ₂ O	MASTER Cu m/min
1	0.680	24	0.618
2	0.820	39	0.788
3	0.850	42	0.818
4	0.980	55	0.936
5	1.130	70	1.056

Multiplication Factor: 0.944

TIME TOTALIZER

T - 2609


#	TEST PIECE H	MASTER H
1	1.00	1.00


ROTAMETER (0-3 lpm)

Sr. No: C13A501

#	TEST PIECE lpm	MASTER lpm	DIFFERENCE
1	0.5	0.54	0.04
2	1.0	1.02	0.02
3	1.5	1.54	0.04
4	2.0	2.04	0.04
5	2.5	2.52	0.02
6	3.0	3.04	0.04

Prepared by: 

Tested by: 

Checked by: 

Date : 10/04/2015

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
CIN : U74899DL1987PTC029919

Calibration Report

Customer : Eco Cements Ltd.
Plot No – 1644, Bheriya More
Kutharia Durgauti Bhabhua,
Bihar - 821105

Instrument : PITOT TUBE (0.6+0.6 Mtr)
Serial No. : VM - 73
Date of Calibration : 12/04/2015
Next Calibration due on : 11/04/2016

Details of reference units against which above instrument is calibrated.

Details	Digital Pressure Meter	Pitot Static Tube	Digital Pressure Meter for Manometer
Serial No.	VMM-2	S - 11	VPM -5
Model / Type	Testo 506	Pitot Static Tube	Testo
Authority	FCRI	FCRI	FCRI
Certificate No.	PSL/1670/1114/P/1171 Dated 26/11/2014	CAW 2253 1502 149 Dated 12/02/2015	PSL/32/0415/P/0014 Dated 11/04/2015
Validity Up to	25/11/2015	11/02/2016	11/04/2016

(ERTL: Electronics Regional Test Laboratory (North) Delhi, FCRI: Fluid Control Research Institute, Palakkad, Kerala, SIIR: Shriram Institute for Industrial Research, Delhi)


TEST READINGS

#	Standard Pitot –Static Probe	Velocity Probe under Calibration	
	Dynamic Pressure h (mm/WC)	Pressure Difference H (mm/WC)	Coefficient K
1	23.0	33.3	0.836
2	33.1	46.3	0.845
3	42.8	58.7	0.854
Average value of the velocity coefficient of the probe: K = 0.854			

Accuracy : 2% FSD
Ambient Temperature : 24 deg C

Prepared By: 

Tested By: 

Checked By: 

For VAYUBODHAN UPKARAN PVT. LTD.


AUTHORIZED SIGNATORY



RAYTHEON TECHNOLOGIES

"GOKULAM" No.41, Teachers' Colony, Vettuvankeni, Chennai - 600 115.
Phone : 044 - 2449 2285, Fax : 044 - 2449 1647. Mobile : (O) + 94440 12056
E-mail : hiraytech@hotmail.com / hiraytech@yahoo.co.in

RT/ECL/CC/1014/15.

31st July, 2015.

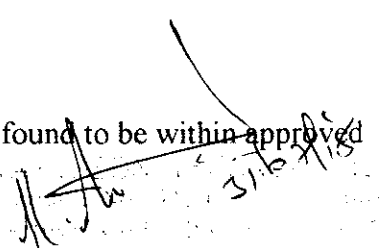
CALIBRATION CERTIFICATE

1. Calibration Requested by :: M/s.Eco Cements Limited,
Plot No.1644, Bheriya More,
Kulharia, Durgauti, 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** :: **31.07.2015.**
4. Calibration Results:-

Sl.No.	Standard Noise Source.	RT-5001.
1.	50.0db.	50.8db.
2.	60.0 db.	60.7db.
3.	75.0 db.	75.7db.
4.	90.0 db.	90.5db.

(a) Standard Noise Source : Standard Noise Generator duly calibrated to National Standards - Reference Report No.: ETDC(CN)2014 47218 enclosed.

5. Temperature & Humidity during calibration :: 28°C & 49% RH.
6. **Next Calibration due on** :: **30.07.2016.**

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

ELECTRONICS TEST & DEVELOPMENT CENTRE
STQC DIRECTORATE, DEPARTMENT OF ELECTRONICS & INFORMATION TECHNOLOGY
GOVERNMENT OF INDIA

Dr. VSI Estate, Thiruvanniyur, Chennai - 600 041.
 Tel : 044-2454 3638 / 3691 / 3710 Mobile : 9444971589
 Fax : 044 - 2454 3638 E-mail : cscetdc@gmail.com

CALIBRATION CERTIFICATE

Certificate No.	ETDC(CN)/2014/47218	Page	01 OF 02
DATE OF CALIBRATION	27.08.2014	CALIBRATION DUE BEFORE	27.08.2015

- 1.1 Service Request No. : 18916/2014-15
- 1.2 Name & address of the customer : M/s.RAYTHEON Technologies,
Gokulam,No.41, Teacher's Colony,
Vettuvankel,Chennai-600 115.
- 1.3 Description and Identification of item : ENVIRONMENTAL NOISE POLLUTION MONITOR
MAKE : RAYTHEON TECHNOLOGIES
MODEL : RT-5001
SL NO. : 021206384
- 1.4 Item Received on : 26.08.2014
- 1.5 Condition on Receipt : FUNCTIONAL
- 1.6 Calibration Performed at : CENTRE
- 1.7 Calibration Procedure Ref : MSP/ETC/002
- 1.8 Environmental conditions : Temperature 25°C ±2.5°C RH : 50% ± 15%
- 1.9 Traceability details :

Sl. NO.	STANDARDS USED	CALIBRATION AT/ CERTIFICATE REF	VALID UP TO
1.	SOUND LEVEL CALIBRATOR B&K 4230, (94 dB)	ERTL(E)/CAL/E022/ 0053/04-14, 17.04.2014	17.04.2015
2.	SOUND LEVEL CALIBRATOR QUEST CA 12B (110.2 dB)	ERTL(E)/CAL/E022/ 0052/04-14, 17.04.2014	17.04.2015

ALL MEASUREMENTS ARE TRACEABLE TO THE NATIONAL / INTERNATIONAL STANDARDS

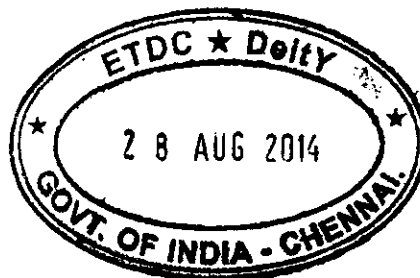
Note 1 :

This calibration certificate refers only to the item calibrated and this certificate shall not be reproduced except in full without written approval from ' Director, ETDC Chennai.'
 The results in the certificate are valid at the time of and under stated conditions of measurements

Calibrated by

T.R.G. Ranganathan
 (T.R.G.RANGANATHAN)

Authorised Signatory



(K.SANKARA SUBRAMANIAN)

ELECTRONICS TEST & DEVELOPMENT CENTRE
STQC DIRECTORATE, DEPARTMENT OF ELECTRONICS & INFORMATION TECHNOLOGY
GOVERNMENT OF INDIA

Dr. VSI Estate, Thiruvanniyur, Chennai - 600 041.
 Tel : 044-2454 3638 / 3691 / 3710 Mobile : 9444971589
 Fax : 044 - 2454 3638 E-mail : cscetdc@gmail.com

Certificate No. ETDC(CN)/2014/47218

Page 02 OF 02

2.0 Calibration Results :

SL. NO.	PARAMETER / RANGES	*DUC READING	STANDARD READING	EXPANDED UNCERTAINTY ±	ERROR CLAIMED ±	ERROR OBSERVED
2.1 SOUND LEVEL @ 1 kHz						
	L	94.5 dB	94.0 dB	0.46 dB	0.5 dB	0.5 dB
	H	94.4 dB	94.0 dB	0.46 dB	0.5 dB	0.4 dB
		110.4 dB	110.2 dB	0.52 dB	0.5 dB	0.2 dB

3.0 REMARKS :

1. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of 95.45%, unless otherwise specified

CALIBRATION LABEL SL. NO.: 9556

* DUC : Device under calibration

Calibrated by

Authorised Signatory

Issued by

T.R.G. Ranganathan
 (T.R.G. RANGANATHAN)

W
 (K.SANKARA SUBRAMANIAN)
K. SANKARASUBRAMANIAN
 SCIENTIST 'E'
 ELECTRONICS TEST & DEVELOPMENT CENTRE
 STQC DIRECTORATE, Deity
 MINISTRY OF COMMUNICATIONS & INFORMATION TECHNOLOGY
 GOVERNMENT OF INDIA
 THIRUVANNIYUR, CHENNAI-600 041.

P. Dandapani
P. DANDAPANI
 SCIENTIST 'C'
 ELECTRONICS TEST & DEVELOPMENT CENTRE
 STQC DIRECTORATE, Deity
 MINISTRY OF COMMUNICATIONS & INFORMATION TECHNOLOGY
 GOVERNMENT OF INDIA
 THIRUVANNIYUR, CHENNAI-600 041.