



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

DATED 23.06.2015

Our Ref : ECO/BIHAR/EMR/23062015/7


Sub : Environmental Monitoring Results of M/s. Eco Cements Limited, Bhabhua for the period of OCT 2014 TO MARCH.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 OCT 2014 TO MARCH.2015

Kindly acknowledge the receipt and oblige.

Thanking you in anticipation,
For Eco Cements Limited

ECO CEMENTS LTD.

Rajiv Saini, Auth. Signatory
Authorized Sign

Encl.

1. Environmental Monitoring results of M/s. Eco Cements Limited, Bhabhua for the period of OCT 2014 TO MARCH.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/m ³)													
Year: 2014 - 2015 (OCT 2014 TO MARCH 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	Oct-14	69.3	11.4	10.4	71.2	11.8	12.3	68.3	11.9	10.9	69.4	10.8	9.8
2	Nov-14	70.4	8.8	11.7	70.8	10.56	12	67.4	12.4	11.9	66.8	11.2	9.9
3	Dec-14	69.5	8.8	11.9	71	10.56	11.4	68.6	12.4	12.2	69.8	11.2	9.6
4	Jan-15	70.4	8.8	11.9	70.8	11.2	11.9	67.4	11.4	11.3	66.8	11.2	9.6
5	Feb-15	73.3	9.9	11.9	71.2	12.6	11.4	68.7	11.9	10.9	71.9	10.8	9.8
6	Mar-15	72.3	9.8	10.6	70.8	10.56	11.9	67.4	12.4	11.3	66.8	11.2	9.9
Average		70.87	9.58	11.40	70.97	11.21	11.82	67.97	12.07	11.42	68.58	11.07	9.77

ECO CEMENTS LTD.

Auth. Signatory

ECO CEMENTS LIMITED

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

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

Stack Emission Level Monitoring Report for the period OCT 2014 TO MARCH 2015
All Values in mg/m³

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	Oct-14	41.7	42.1	41.7	42.1	38.3	35.9	50 mg/Nm ³
2	Nov-14	41.9	44.7	43.2	42.9	41.5	39.4	
3	Dec-14	42.3	43.8	45.6	41.8	36.2	39.6	
4	Jan-15	42.2	41.5	41.1	42.9	39.6	38.9	
5	Feb-15	42.7	44.7	42.9	43.1	35.8	40.2	
6	Mar-15	43.3	45.2	42.2	40.7	32.7	38.7	
Average Values		42.35	43.67	42.78	42.25	37.35	38.78	

ECO CEMENTS LTD.

[Signature]
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.

Ambient Noise level Monitoring Report From OCT 2014 TO MARCH 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	Oct-14	62	61.9	61.4	61.1	61.8	75dB(A) in day & 70 dB(A) in night
2	Nov-14	62.6	63	62.2	61.6	61	
3	Dec-14	61.8	62.4	61.9	61.6	63.9	
4	Jan-15	61	61.8	62	60.7	61.9	
5	Feb-15	61.8	61.8	60.7	61.1	61.9	
6	Mar-15	62.3	61	61.9	63	63.9	
Average Values		61.92	61.98	61.68	61.52	62.40	

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.

Fugitive Dust Emission Level Monitoring Report for the period OCT 2014 TO MARCH 2015						
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	Oct-14	3.7	4.0	2.9	5.3	3.7
2	Nov-14	3.7	4.1	3.2	5.3	3.1
3	Dec-14	3.5	4.5	2.8	5.3	3.8
4	Jan-15	3.8	4.2	3.2	5.2	3.7
5	Feb-15	3.2	4.1	3.4	5.3	3.6
6	Mar-15	3.5	4.5	2.8	5.3	3.9
Average		3.6	4.2	3.1	5.3	3.6

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

TEST REPORT

Ref. No. ECO/P- AAQ/14/119

Dated: 18.10.2014

(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 Ambient Air Quality.

(d) No. & Type of container

Filter Paper; Glass Impinger

(e) Date of Sample

18.10.2014

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)	71.9, 68.2, 71.8	71.6, 71.4, 69.8	67.6, 66.4, 68.4	67.7, 67.4, 65.5	100 $\mu\text{g}/\text{m}^3$
2. Sulphur Dioxide as SO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	9.0, 8.9, 8.7	9.9, 11.9, 9.9	13.5, 11.9, 11.8	11.6, 12.6, 9.4	80 $\mu\text{g}/\text{m}^3$
3. Nitrogen Dioxide as NO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	11.9, 11.7, 11.6	12.9, 11.7, 11.1	14.0, 11.2, 12.1	9.7, 9.7, 10.9	80 $\mu\text{g}/\text{m}^3$
Average Value						
PM ₁₀		69.3	71.2	68.3	69.4	
SO ₂		11.4	11.8	11.9	10.8	
NO ₂		10.4	12.3	10.9	9.8	

ECO CEMENTS LTD.

Gaurish 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/14/120

Dated: 21.11.2014

(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 Ambient Air Quality.

(d) No. & Type of container

Filter Paper; Glass Impinger

(e) Date of Sample

21.11.2014

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)	70.7, 68.0, 71.5	71.6, 71.2, 69.8	69.6, 68.4, 70.4	68.7, 71.4, 70.5	100 $\mu\text{g}/\text{m}^3$
2. Sulphur Dioxide as SO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	9.5, 9.9, 10.6	11.8, 12.6, 9.8	11.9, 12.6, 11.8	12.7, 11.9, 11.4	80 $\mu\text{g}/\text{m}^3$
3. Nitrogen Dioxide as NO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	11.1, 11.9, 10.6	11.9, 11.9, 12.1	12.0, 12.9, 11.6	9.9, 9.7, 11.2	80 $\mu\text{g}/\text{m}^3$
Average Value						
PM ₁₀		70.4	70.8	67.4	66.8	
SO ₂		8.8	10.56	12.4	11.2	
NO ₂		11.7	12	11.9	9.9	

ECOCEMENTS LTD.

Auth. Signatory

ECOCEMENTS 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/14/121		Dated:17.12.2014				
(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 Ambient Air Quality.					
(d) No.& Type of container	Filter Paper; Glass Impinger					
(e) Date of Sample	17.12.2014					
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, 72.3, 73.9	68.8, 71.9, 73.4	71.9, 68.7, 71.9	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)	9.0, 9.6, 10.7	10.9, 11.9, 9.9	11.9, 11.9, 11.8	11.6, 12.6, 10.8	80 $\mu\text{g}/\text{m}^3$
3. Nitrogen Dioxide as NO ₂ $\mu\text{g}/\text{m}^3$	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 $\mu\text{g}/\text{m}^3$
Average Value						
PM ₁₀		69.5	71	68.6	69.8	
SO ₂		8.8	10.56	12.4	11.2	
NO ₂		11.9	11.4	12.2	9.6	

ECO CEMENTS LTD.

Gaurish Singh

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- AAQ/15/122		Dated:20.01.2015				
(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	20.01.2015					
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)	71.3, 73.3, 72.9	68.6, 71.2, 70.4	71.6, 68.4, 71.8	68.7, 71.4, 72.9	100 $\mu\text{g}/\text{m}^3$
2. Sulphur Dioxide as SO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	9.6, 9.8, 9.9	11.6, 12.9, 10.8	11.4, 11.9, 11.2	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)	12.9, 12.7, 10.6	11.9, 12.7, 12.1	14.0, 11.2, 12.1	9.9, 9.3, 10.6	80 $\mu\text{g}/\text{m}^3$
Average Value						
PM ₁₀		70.4	70.8	67.4	66.8	
SO ₂		8.8	11.2	11.4	11.2	
NO ₂		11.9	11.9	11.3	9.6	

ECO CEMENTS LTD.

Gaurish Singh

Auth. Signatory

ECO CEMENTS LIMITED

Corp. Office : 72, Jawaharnagar Extn, Bhelupur, Varanasi-221010. Télefax – 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/15/123

Dated:24.02.2015

(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

24.02.2015

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)	71.7, 68.0, 71.5	71.6, 71.2, 69.8	67.6, 66.4, 68.4	68.8, 71.9, 72.7	100 $\mu\text{g}/\text{m}^3$
2. Sulphur Dixide as SO ₂ $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	9.0, 8.9, 8.7	9.9, 11.9, 9.9	13.5, 11.9, 11.8	11.7, 12.9, 11.7	80 $\mu\text{g}/\text{m}^3$
3. Nitrogen Dixide as NO ₂ $\mu\text{g}/\text{m}^3$	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 $\mu\text{g}/\text{m}^3$

Average Value

Parameter	Near Main Gate	Near CCR	Near Canteen	Near Gypsum Storage
PM ₁₀	73.3	71.2	68.7	71.9
SO ₂	9.9	12.6	11.9	10.8
NO ₂	11.9	11.4	10.9	9.8

ECO CEMENTS LTD.

Gurmit 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,Durguati, Bhabua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- AAQ/15/124		Dated:24.03.2015				
(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	24.03.2015					
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)	70.3, 72.3, 73.9	68.8, 71.9, 73.4	69.6, 68.4, 70.4	68.7, 71.4, 70.5	100 µg/m ³
2. Sulphur Dixide as SO ₂ µg/m ³	IS 5182 (Part-2)	9.5, 9.9, 10.6	11.8, 12.6, 9.8	11.9, 11.9, 11.8	11.6, 12.6, 10.8	80 µg/m ³
3. Nitrogen Dixide as NO ₂ µg/m ³	IS 5182 (Part-2)	11.6, 11.8, 10.4	11.9, 11.7, 12.3	12.0, 12.4, 11.9	9.7, 9.6, 11.4	80 µg/m ³
Average Value						
PM ₁₀		72.3	70.8	67.4	66.8	
SO ₂		9.8	10.56	12.4	11.2	
NO ₂		10.6	11.9	11.3	9.9	

ECO CEMENTS LTD

(Handwritten Signature)

Auth. Signate

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/14/156

Dated: 15.10.2014

(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	15.10.2014
Sampling Locations		Time weighted Average (TWA) Of Noise Level in db(A)
1	Near Main Gate	62
2	Near CCR	61.9
3	Near Canteen	61.4
4	Near Gypsum Storage Area	61.1
5	Near Clinker storage Area	61.8
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.

Gaurishankar 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- ANL/14/157

Dated: 21.11.2014

(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 Ambient Noise Level.
(d)	Monitored by	ECO CEMENT Ltd.
(e)	Date of Monitoring	21.11.2014
Sampling Locations		Time weighted Average (TWA) Of Noise Level in db(A)
1	Near Main Gate	62.6
2	Near CCR	63
3	Near Canteen	62.2
4	Near Gypsum Storage Area	61.6
5	Near Clinker storage Area	61
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.

Sourish 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- ANL/14/158

Dated:10.12.2014

(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 Ambient Noise Level.
(d)	Monitored by	ECO CEMENT Ltd.
(e)	Date of Monitoring	10.12.2014
Sampling Locations		Time weighted Average (TWA) Of Noise Level in db(A)
1	Near Main Gate	61.8
2	Near CCR	62.4
3	Near Canteen	61.9
4	Near Gypsum Storage Area	61.6
5	Near Clinker storage Area	63.9
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 area/zone.	

ECO CEM.

Gopal 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- ANL/14/159

Dated:19.01.2015

(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	19.01.2015
Sampling Locations		Time weighted Average (TWA) Of Noise Level in db(A)
1	Near Main Gate	61
2	Near CCR	61.8
3	Near Canteen	62
4	Near Gypsum Storage Area	60.7
5	Near Clinker storage Area	61.9
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 area/zone.	

ECO CEMENTS LTD.

Gourmel 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- ANL/14/160

Dated:18.02.2015

(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	18.02.2015
Sampling Locations		Time weighted Average (TWA) Of Noise Level in db(A)
1	Near Main Gate	61.8
2	Near CCR	61.8
3	Near Canteen	60.7
4	Near Gypsum Storage Area	61.1
5	Near Clinker storage Area	61.9
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 CEMENT

Ganesh Singh

Auth. Signature

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- ANL/14/161

Dated:16.03.2015

(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	16.03.2015
Sampling Locations		Time weighted Average (TWA) Of Noise Level in db(A)
1	Near Main Gate	62.3
2	Near CCR	61
3	Near Canteen	61.9
4	Near Gypsum Storage Area	63
5	Near Clinker storage Area	63.9
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 area/zone.	

ECO CEMENTS LTD.

Govind 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/14/150

Dated: 21.10.2014

(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 Fugitive Emissions in Work Zone area

(d) No. & Type of container

Filter Paper

(e) Date of Sample

21.10.2014

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	3.7	5.9	1.38	5.0
2	Mill Section 01 st Floor	4	10.3	1.39	5.0
3	Mill Section 02 nd Floor	2.9	9.7	1.6	5.0
4	South Side of Mill section	5.3	10.1	1.5	5.0
5	North Side of Mill section	3.7	9.0	1.4	5.0

* Permissible time Weighted (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
 : 1644, Beriya Road, Kulharia, Durgawati, Bhabhua (Kamur), Bihar- 821105.



TEST REPORT

Ref. No. ECO/P- FDE/14/151

Dated: 18.11.2014

(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 Fugitive Emissions in Work Zone
area

(d) No. & Type of container

Filter Paper

(e) Date of
Sample

18.11.2014

S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc.*	Concentration of Respirable Dust	Permissible TWA Concn.*
		mg/M ³	mg/M ³	mg/M ³	mg/M ³
1	Mill Section Ground Floor	3.7	6.2	1.39	5.0
2	Mill Section 01 st Floor	4.1	10.0	1.4	5.0
3	Mill Section 02 nd Floor	3.2	9.4	1.52	5.0
4	South Side of Mill section	5.3	10.3	1.4	5.0
5	North Side of Mill section	3.1	9.8	1.35	5.0

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

ECO CEMENTS LTD.

Gourishankar 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/14/152

Dated: 26.12.2014

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

26.12.2014

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	3.5	6.0	1.35	5.0
2	Mill Section 01 st Floor	4.5	9.4	1.5	5.0
3	Mill Section 02 nd Floor	2.8	9.7	1.56	5.0
4	South Side of Mill section	5.3	10.1	1.48	5.0
5	North Side of Mill section	3.8	9.2	1.38	5.0

* Permissible time Weighted (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, Sāleshree Vihar, Chandrasekharpur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in
 : 1644, Beriya Road, Kulharia, Durgawati, Bhabhua (Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- FDE/14/153

Dated: 19.01.2015

(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	19.01.2015			
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	3.8	6.8	1.38	5.0
2	Mill Section 01 st Floor	4.2	9.2	1.39	5.0
3	Mill Section 02 nd Floor	3.2	9.4	1.6	5.0
4	South Side of Mill section	5.2	10.3	1.5	5.0
5	North Side of Mill section	3.7	9.0	1.4	5.0
* Permissible time Weighed (TWA) Conc ⁿ . based on Silica Content as per Factories Act '1948 Second Schedule.					

ECO CEMENTS LTD.

Gaurav 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- FDE/14/154

Dated: 21.02.2015

(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	21.02.2015			
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	6.8	1.32	5.0
2	Mill Section 01 st Floor	4.1	9.4	1.4	5.0
3	Mill Section 02 nd Floor	3.4	9.5	1.5	5.0
4	South Side of Mill section	5.3	10.0	1.4	5.0
5	North Side of Mill section	3.6	9.6	1.5	5.0

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

ECO CEMENTS LTD.

Soumal 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- FDE/14/155

Dated: 17.03.2015

(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	17.03.2015			
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	3.5	6.0	1.32	5.0
2	Mill Section 01 st Floor	4.5	9.4	1.5	5.0
3	Mill Section 02 nd Floor	2.8	9.7	1.6	5.0
4	South Side of Mill section	5.3	10.1	1.5	5.0
5	North Side of Mill section	3.9	9.0	1.3	5.0
* Permissible time Weighed (TWA) Conc ⁿ based on Silica Content as per Factories Act '1948 Second Schedule.					

ECO CEMENTS LTD.

Gautam 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/15/124

Dated: 20.10.2014

(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 of 125 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	20.10.2014		
	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		18	
7	Fuel Gas Temperature, °C		116	
8	Velocity, m/sec	IS 11255 (Part-3)	6.9	
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)	35.9	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	58.2	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	175.7	710.00 mg/NM ³

ECO CEMENTS LTD.

Gourmohini Singh
Auth. Signatory

ECO CEMENTS LIMITED

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

Zonal Office : HIG-195, SãileshreeVihar, 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: 12.11.2014

(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 of 125 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	12.11.2014		
	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		18	
7	Fuel Gas Temperature, °C		116	
8	Velocity, m/sec	IS 11255 (Part-3)	6.9	
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)	39.4	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)	181.2	710.00 mg/NM ³

ECO CEMENTS LTD.

Ganesh 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/15/126

Dated: 18.12.2014

(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 of 125 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	18.12.2014		
	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		18	
7	Fuel Gas Temperature, °C		116	
8	Velocity, m/sec	IS 11255 (Part-3)	6.9	
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)	39.6	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	59.3	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	175.8	710.00 mg/NM ³

ECO CEMENTS LTD.

Gaurish 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/15/127

Dated: 13.01.2015

(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	13.01.2015		
	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		18	
7	Fuel Gas Temperature, °C		116	
8	Velocity, m/sec	IS 11255 (Part-3)	6.9	
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)	38.9	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	53.1	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	179.6	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, Chandrasekharapur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in

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

TEST REPORT

Ref. No. ECO/P- SE/15/128

Dated: 20.02.2015

(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	20.02.2015		
	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		18	
7	Fuel Gas Temperature, °C		116	
8	Velocity, m/sec	IS 11255 (Part-3)	6.9	
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)	40.2	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	56.9	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	177.45	710.00 mg/NM ³

ECO CEMENTS LTD.

Gaurish 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/15/129

Dated: 17.03.2015

(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	17.03.2015		
	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		18	
7	Fuel Gas Temperature, °C		116	
8	Velocity, m/sec	IS 11255 (Part-3)	6.9	
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)	38.7	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	58.1	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	175.8	710.00 mg/NM ³

ECO CEMENTS LTD.

Auth. Signatory

ECO CEMENTS LIMITED

Corp. Office : 72, Jawahar Nagar 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/14/128.

Dated: 16.10.2014

(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 of 500 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	16.10.2014		
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		18	
7	Fuel Gas Temperature, °C		123	
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)	38.3	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	69.1	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	186.9	710.00 mg/NM ³

ECO CEMENTS LTD.

Gauriel 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/14/129

Dated: 20.11.2014

(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 of 500 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	20.11.2014		
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		18	
7	Fuel Gas Temperature, °C		123	
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)	41.5	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	72.2	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	192.9	710.00 mg/NM ³

ECO CEMENTS LTD.

Gaurish 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/14/130

Dated: 15.12.2014

(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 of 500 KVA DG Set		
(d)	No. & Type of container	Thimble & Glass Impinger		
(e)	Date of Sample	15.12.2014		
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		18	
7	Fuel Gas Temperature, °C		123	
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)	36.2	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	66.8	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	183.7	710.00 mg/NM ³

ECO CEMENTS LTD.

Gourmit 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/14/131

Dated: 19.01.2015

(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	Thjmble & Glass Impinger		
(e)	Date of Sample	19.01.2015		
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		18	
7	Fuel Gas Temperature, °C		123	
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)	39.6	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)	187.4	710.00 mg/NM ³

ECO CEMENTS LTD.

Gourishankar

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/14/132

Dated: 23.02.2015

(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	23.02.2015		
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		18	
7	Fuel Gas Temperature, °C		123	
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)	35.8	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	66.3	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	184.9	710.00 mg/NM ³

ECO CEMENTS LTD.

Saurish Singh
Auth. Signatory

ECO CEMENTS LIMITED

Corp. Office : 72, Jawaharqagar 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/14/133.

Dated: 18.03.2015

(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	18.03.2015		
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		18	
7	Fuel Gas Temperature, °C		123	
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)	32.7	75.00 mg/NM ³
11	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	69.1	Not specified
12	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	187.9	710.00 mg/NM ³

ECO CEMENTS LTD.

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

TEST REPORT

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

Dated: 20.10.2014

(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	20.10.2014		
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		18	
7	Fuel Gas Temperature, °C		117	
8	Velocity,m/sec	IS 11255 (Part-3)	7.8	
9	Sampling Point		21 m.	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	41.7	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)	10.5	Not specified

ECO CEMENTS LTD.

Auth. Signatory

Gaurish Singh

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: 17.11.2014

(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	17.11.2014		
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		18	
7	Fuel Gas Temperature, °C		117	
8	Velocity,m/sec	IS 11255 (Part-3)	7.8	
9	Sampling Point		21 m.	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	41.9	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)	11	Not specified

ECO CEMENTS LTD.

Sarmit 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/15/140

Dated: 23.12.2014

(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	23.12.2014		
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		18	
7	Fuel Gas Temperature, °C		117	
8	Velocity,m/sec	IS 11255 (Part-3)	7.8	
9	Sampling Point		21 m.	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	42.3	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)	11.2	Not specified

ECO CEMENTS LTD.

Gourin 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/15/141

Dated: 19.01.2015

(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	19.01.2015		
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		18	
7	Fuel Gas Temperature, °C		117	
8	Velocity, m/sec	IS 11255 (Part-3)	7.8	
9	Sampling Point		21 m.	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	42.2	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)	11.4	Not specified

ECO CEMENTS LTD.

Auth. Signatory

Ganesh Singh

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/15/142

Dated: 20.02.2015

(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	20.02.2015			
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		18		
7	Fuel Gas Temperature, °C		117		
8	Velocity, m/sec		IS 11255 (Part-3)	7.8	
9	Sampling Point			21 m.	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules	
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	42.7	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)	11.9	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
 : 1644, Beriya Road, Kulharia, Durgawati, Bhabua(Kamur), Bihar- 821105.



TEST REPORT

Ref. No. ECO/P- SE/15/143

Dated: 25.03.2015

(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	25.03.2015		
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		18	
7	Fuel Gas Temperature, °C		117	
8	Velocity,m/sec	IS 11255 (Part-3)	7.8	
9	Sampling Point		21 m.	
			Concentration. (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	43.3	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)	12.1	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, Chandrasekharpur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in

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



TEST REPORT

Ref. No. ECO/P- SE/14/147

Dated: 15.10.2014

(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	15.10.2014		
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		18	
7	Fuel Gas Temperature, °C		53.2	
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)	42.1	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)	10.3	Not specified

ECO CEMENTS LTD.

Geornal 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/14/148

Dated: 20.11.2014

(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	20.11.2014		
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		18	
7	Fuel Gas Temperature, °C		53.2	
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)	42.9	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)	11.3	Not specified

ECO CEMENTS LTD.

Auth. Signatory

Gourish Singh

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- SE/14/149

Dated: 17.12.2014

(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	17.12.2014		
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		18	
7	Fuel Gas Temperature, °C		53.2	
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)	41.8	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)	10.2	Not specified

ECO CEMENTS LTD.
Soumitra 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/14/150		Dated: 24.01.2015		
(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	24.01.2015		
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		18	
7	Fuel Gas Temperature, °C		53.2	
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)	42.9	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)	11.8	Not specified

ECO CEMENTS LTD.

Gourishankar 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/14/151

Dated: 12.02.2015

(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	12.02.2015		
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		18	
7	Fuel Gas Temperature, °C		53.2	
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)	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)	10.5	Not specified

ECO CEMENTS LTD.

Ganvir Singh
Auth. Signature

ECO CEMENTS LIMITED

Corp. Office : 72, Jayaharnagar 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/14/152

Dated: 21.03.2015

(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	21.03.2015		
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		18	
7	Fuel Gas Temperature, °C		53.2	
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)	40.7	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)	11.1	Not specified

ECO CEMENTS LTD.

Saurabh Singh
Anth. Signatory

ECO CEMENTS LIMITED

Corp. Office : 72, Jayaharnagar 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/14/132

Dated: 17.10.2014

(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

17.10.2014

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)	43.8	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)	11.9	Not specified

ECO CEMENTS LTD.

Gaurishankar 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/14/133

Dated: 21.11.2014

(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

21.11.2014

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 / NM³)	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)	13.4	Not specified

ECO CEMENTS LTD.

Gurind 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/14/134

Dated: 27.12.2014

(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

27.12.2014

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)	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)	11.2	Not specified

ECO CEMENTS LTD.

Gauriel 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- SE/14/135

Dated: 12.01.2015

(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

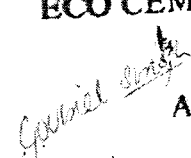
(d) No. & Type of container.

Thimble & Glass Impinger

(e) Date of Sample

12.01.2015

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)	44.8	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)	12.2	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, Chandrasekharpur, Bhubaneswar, Orissa, Email - enquiry@ecocem.in
: 1644, Beriya Road, Kulharia, Durgawati, Bhabhua (Kamur), Bihar- 821105.



TEST REPORT

Ref. No. ECO/P- SE/14/136

Dated: 20.02.2015

(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

20.02.2015

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		1 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)	45.1	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)	11.3	Not specified

ECO CEMENTS LTD

Gaurish Bhatnagar

Auth. Signature

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/14/137

Date: 16.03.2015

(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

16.03.2015

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		1 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)	44.7	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)	13.3	Not specified

ECO CEMENTS LTD.

Gauri 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/14/114

Dated: 18.10.2014

(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	18.10.2014		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Clinker Unloading Area	
2	Height of Stack (as reported)		30 m.	
3	Dia of Stack at Top(as reported)		0.75 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		18	
7	Fuel Gas Temperature, °C		43.9	
8	Velocity, m/sec	IS 11255 (Part-3)	7	
9	Sampling Point		11 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	41.7	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)	16.8	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, 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/14/115

Dated: 22.11.2014

(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	22.11.2014		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Clinker Unloading Area	
2	Height of Stack (as reported)		30 m.	
3	Dia of Stack at Top(as reported)		0.75 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		18	
7	Fuel Gas Temperature, °C		43.9	
8	Velocity, m/sec	IS 11255 (Part-3)	7	
9	Sampling Point		11 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	43.2	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)	18.9	Not specified

ECO CEMENTS LTD.

Ganesh 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/14/116

Dated: 19.12.2014

(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	19.12.2014		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Clinker Unloading Area	
2	Height of Stack (as reported)		30 m.	
3	Dia of Stack at Top(as reported)		0.75 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		18	
7	Fuel Gas Temperature, °C		43.9	
8	Velocity, m/sec	IS 11255 (Part-3)	7	
9	Sampling Point		11 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	45.6	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)	19.8	Not specified

ECO CEMENTS LTD.

Gourish 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/14/117

Dated: 14.01.2015

(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	14.01.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Clinker Unloading Area	
2	Height of Stack (as reported)		30 m.	
3	Dia of Stack at Top(as reported)		0.75 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		18	
7	Fuel Gas Temperature, °C		43.9	
8	Velocity, m/sec	IS 11255 (Part-3)	7	
9	Sampling Point		11 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	41.1	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)	17.5	Not specified

ECO CEMENTS LTD.

Sunil Singh

Auth. Signatory

ECO CEMENTS LIMITED

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

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

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



TEST REPORT

Ref. No. ECO/P- SE/14/118

Dated: 21.02.2015

(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

21.02.2015

Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Clinker Unloading Area	
2	Height of Stack (as reported)		30 m.	
3	Dia of Stack at Top(as reported)		0.75 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		18	
7	Fuel Gas Temperature, °C		43.9	
8	Velocity, m/sec	IS 11255 (Part-3)	7	
9	Sampling Point		11 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	42.9	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)	16.9	Not specified

ECO CEMENTS LTD.

General Manager

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/14/119

Dated: 24.03.2015

(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	24.03.2015		
Parameters		Method of Test	Results	
1	Stack Connected to		Bag Filter at Clinker Unloading Area	
2	Height of Stack (as reported)		30 m.	
3	Dia of Stack at Top(as reported)		0.75 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		18	
7	Fuel Gas Temperature, °C		43.9	
8	Velocity, m/sec	IS 11255 (Part-3)	7	
9	Sampling Point		11 m	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	42.2	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)	19.6	Not specified

ECO CEMENTS LTD.

Gourin 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/14/139

Dated: 16.10.2014

(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

16.10.2014

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		18	
7	Fuel Gas Temperature, °C		46	
8	Velocity, m/sec	IS 11255 (Part-3)	6.7	
9	Sampling Point		14 m.	
			Concentration (mg / NM³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	42.1	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)	14.9	710.00 mg/NM ³

ECO CEMENTS LTD.

Gaurish 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/14/140

Dated: 28.11.2014

(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	28.11.2014		
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		18	
7	Fuel Gas Temperature, °C		46	
8	Velocity, m/sec	IS 11255 (Part-3)	6.7	
9	Sampling Point		14 m.	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	44.7	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)	16.2	710.00 mg/NM ³

ECO CEMENTS LTD.

Guinal 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/14/141

Dated: 23.12.2014

(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

23.12.2014

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		18	
7	Fuel Gas Temperature, °C		46	
8	Velocity, m/sec	IS 11255 (Part-3)	6.7	
9	Sampling Point		14 m.	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	43.8	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)	16.1	710.00 mg/NM ³

ECO CEMENTS LTD.

Gaurish 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/14/142

Dated: 17.01.2015

(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

17.01.2015

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		18	
7	Fuel Gas Temperature, °C		46	
8	Velocity, m/sec	IS 11255 (Part-3)	6.7	
9	Sampling Point		14 m.	
			Concentration (mg / NM³)	Limit as.per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	41.5	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)	15.9	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, Bhabhua(Kamur), Bihar- 821105.

TEST REPORT

Ref. No. ECO/P- SE/14/143

Dated: 20.02.2015

(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

20.02.2015

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		18	
7	Fuel Gas Temperature, °C		46	
8	Velocity, m/sec	IS 11255 (Part-3)	6.7	
9	Sampling Point		14 m.	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	44.7	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)	17.7	710.00 mg/NM ³

ECO CEMENTS LTD.

Saurabh 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/14/144

Dated: 14.03.2015

(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	14.03.2015		
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		18	
7	Fuel Gas Temperature, °C		46	
8	Velocity, m/sec	IS 11255 (Part-3)	6.7	
9	Sampling Point		14 m.	
			Concentration (mg / NM ³)	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	45.2	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)	17.1	710.00 mg/NM ³

ECO CEMENTS LTD.

Gauriel 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.



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 : 10/04/2014

Next Calibration due on : 09/04/2015

Certificate No. : 085/2014 -15

Details of reference units against which above instrument is calibrated.

Details	Rotameter	Rotameter	Digital Pressure Meter for Manometer
Serial No.	C 13A677	D13A782	VMM -5
Model / Type	0 – 5 LPM	0 – 50 LPM	Testo
Authority	FCRI	FCRI	FCRI
Certificate No.	CA 78 1304 37 DATED 30/04/2013	CA 193 1312 555 Dated 14/01/2014	PSL/2580/0314/P/1638 Dated 08/04/2014
Validity Upto	26/04/2014	01/01/2015	03/04/2015

Details	Stop Watch	Vernier Caliper For Nozzle	Digital Pressure Meter For Vacuum Gauge
Serial No.	01	0003685
Model / Type	-----	0-150 mm	Testo
Authority	ERTL	SIIR	FCRI
Certificate No.	ERTL(N) / 90 (4) – (2013- 14) / A 0208 Dated 21/06/2013	000045643 dated 18/01/2014	PSL/1994/1213/P/1396 Dated 07/01/2014
Validity Upto	21/06/2014	18/01/2015	03/01/2015

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

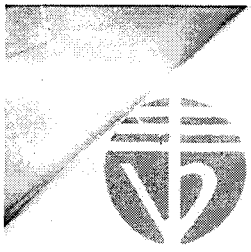
(ERTL: Electronics Regional Test Laboratory (North) Delhi, FCRI : Fluid Control Research Institute, Palakkad, Kerala, SIIR : Shri Ram Institute for Industrial Research, Delhi)

Ambient Temperature : 30 deg C
Accuracy : 2% FSD

For VAYUBODHAN UPKARAN PVT. LTD.

ASHUTOSH GUPTA
DIRECTOR

(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

Annexure to Certificate No.: 085/2014 -15

TEST READINGS

Manometer Testing: M

#	TEST PIECE mm /Water	MASTER mm /Water	DIFFERENCE
1	19.5	19.9	0.4
2	35.3	35.5	0.2
3	55.6	55.9	0.3
4	75.7	75.9	0.2
5	93.4	93.8	0.4

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

#	TEST PIECE lpm	MASTER lpm	DIFFERENCE
1	0.5	0.56	0.06
2	1.0	1.04	0.04
3	1.5	1.52	0.02
4	2.0	2.06	0.06
5	2.5	2.54	0.04
6	3.0	3.02	0.02

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

#	TEST PIECE lpm	MASTER lpm	DIFFERENCE
1	5	5.6	0.6
2	10	10.4	0.4
3	15	15.2	0.2
4	20	20.6	0.6
5	25	25.4	0.4
6	30	30.2	0.2

Pyrometer Testing K

#	TEST PIECE °C	MASTER °C
1	28	29
2	100	100
3	200	200
4	300	300
5	400	400
6	500	500

Nozzle

#	NOZZLE SIZE	NOZZLE DIA mm
1	1/8"	3.26
2	1/4"	6.78
3	3/8"	9.24

Stop Watch. S

#	TEST PIECE Min.	MASTER Min.
1	10M:19.55S	10M:19.48S
2	20M:45.73S	20M:45.66S

Vacuum Gauge.V (FOR SPM)

#	TEST PIECE mm/Hg	MASTER mm/Hg
1	50	54.4
2	100	106.5

Vacuum Gauge.V (FOR GAS)

#	TEST PIECE mm/Hg	MASTER mm/Hg
1	50	52.6
2	100	104.4

Prepared by:

Tested by:

Checked by:

Date : 10/04/2014



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 : 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 DTG 2013
Date of Calibration : 10/04/2014
Next Calibration due on : 09/04/2015
Certificate No. : 084/2014 -15

Details of reference units against which above instrument is calibrated.

Details	Time Totalizer	Digital Pressure Meter for Manometer
Serial No.	01	VMM -5
Model / Type	-----	Testo
Authority	ERTL	FCRI
Certificate No.	ERTL (N) / 90 (4) – (2013-14)/A0207 Dated 25/06/2013	PSL/2580/0314/P/1638 Dated 08/04/2014
Validity Upto	25/06/2014	03/04/2015

Details	Rotameter	Top Loading Orifice
Serial No.	C 13A677	TLO-01A
Model / Type	0 – 5 LPM	-----
Authority	FCRI	FCRI
Certificate No.	CA 78 1304 37 DATED 30/04/2013	CA 025 1304 017 Dated 29/04/2013
Validity Upto	26/04/2014	15/04/2014

(ERTL: Electronics Regional Test Laboratory (North) Delhi; FCRI: Fluid Control Research Institute, Patakkad, Kerala, SRII : Shri Ram Institute for Industrial Research, Delhi)

Ambient Temperature : 30 deg C
Accuracy : 2% FSD

For VAYUBODHAN UPKARAN PVT. LTD.

ASHISH GUPTA
DIRECTOR

(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

Annexure to Certificate No.: 084/2014 - 15

TEST READINGS

ORIFICE

O - 2609

#	TEST PIECE Cu m/min	MASTER mm /H ₂ O	MASTER Cu m/min	DIFFERENCE
1	0.700	32	0.690	0.010
2	0.900	52	0.880	0.020
3	0.950	60	0.945	0.005
4	1.040	73	1.042	0.002
5	1.200	100	1.220	0.020

TIME TOTALIZER


I - 2609

#	TEST PIECE H	MASTER H
1	0.30	0.30


ROTAMETER (0-3 lpm)

Sr. No: C13A501

#	TEST PIECE lpm	MASTER lpm	DIFFERENCE
1	0.5	0.52	0.02
2	1.0	1.06	0.06
3	1.5	1.54	0.04
4	2.0	2.06	0.06
5	2.5	2.52	0.02
6	3.0	3.06	0.06

Prepared by: 

Tested by: 

Checked by: 

Date : 10/04/2014



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 : PTTOT TUBE (0.6+ 0.6 Mtr) *J*
Serial No. : VM - 73
Date of Calibration : 15/04/2014
Next Calibration due on : 14/04/2015

Details of reference units against which above instrument is calibrated.

Details	Pitot Static Tube	Digital Pressure Meter	Digital Pressure Meter
Serial No.	117	VMM-7	VMM-8
Model / Type	L TYPE	Testo	Testo
Authority	FCRI	FCRI	FCRI
Certificate No.	CAW 2582 1403 196 Dated 31/03/2014	PSL/2580/0314/P/1688 Dated 08/04/2014	PSL/2580/0314/P/1689 Dated 08/04/2014
Validity Up to	25/03/2015	29/03/2015	29/03/2015

(FCRI - Electronics Regional Test Laboratory (Sector) Delhi, FCRI - Fuel Control Research Institute, Palakkad, Kerala, SIIR - National 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	21.6	31.5	0.828
2	41.2	60.2	0.827
3	51.4	77.2	0.815
Average value of the velocity coefficient of the probe: K = 0.823			

Accuracy : 2% FSD
Ambient Temperature : 30 deg C

Prepared By: *[Signature]*

Tested By: *[Signature]*

Checked By: *[Signature]*

For VAYUBODHAN UPKARAN PVT. LTD.

[Signature]
ASHISH GUPTA
DIRECTOR