



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

DATED 2016-12-20

Our Ref : ECO/BIHAR/EMR/20122016/10

Sub : Environmental Monitoring Results of M/s. Eco Cements Limited, Bhabhua
for the period of APR – 2016 TO SEP -2016

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 APR – 2016 TO SEP -2016 Kindly acknowledge the receipt and oblige.

Thanking you in anticipation,
For Eco Cements Limited

ECO CEMENTS LTD
Rajiv Saini
Authorized Signatory / Director

Encl.

1. Environmental Monitoring results of M/s. Eco Cements Limited, Bhabhua for the period of APR – 2016 TO SEP -2016

Copy to.

1. Ministry of Environment and Forests,
BANGLOW NO. A-2, SHYAMLI CALONY,
RANCHI-834002, JHARKHAND
PH. 0651-2410007, 2410002
2. The Chairman, Central Pollution Control Board,
Parivesh Bhawan, CBD-cum-Office Complex,
East Arjun Nagar, Delhi - 110 032

ECO CEMENTS LTD

Regd. Off: 1E, 1st Floor, Ashutosh Apartment, 295/2, G.T Road, Salkia, Howrah, W.B, Pin-711327
Tel No: +91 865 199 8842, Website: www.ecocement.in, Email: info@ecocement.in
Factory: Plot No. 1644, Bheriya Road, Kulharia, Durgauti, Bhabhua, Bihar

Ambient Air Quality Monitoring Report (All Values in $\mu\text{g}/\text{m}^3$)													
Year: 2016 - 2017(APR 2016 TO SEP 2016.)													
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-16	87.3	16.5	22.8	93.7	17.2	24.3	89.7	20.6	29.2	81.1	29.8	44.7
2	May-16	91.3	19.8	29.1	87.5	23.7	35.0	79.1	17.9	33.5	85.1	18.6	27.4
3	Jun-16	98.7	22.8	35.0	92.2	27.2	42.0	77.9	10.7	25.1	84.3	21.0	32.9
4	Jul-16	96.2	22.2	26.2	94.9	28.1	31.5	90.8	21.8	24.6	82.1	11.3	18.8
5	Aug-16	85.1	23.9	35.7	96.5	13.8	19.4	94.6	16.5	23.3	87.5	13.2	18.3
6	Sep-16	89.0	15.9	23.3	93.6	17.4	19.7	92.2	19.0	28.0	106.4	18.2	28.0
Average		91.27	20.2	28.68	93.07	21.23	28.65	87.38	17.75	27.28	87.75	18.68	28.4

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Stack Emission Level Monitoring Report for the period APR 2016 TO SEP 2016
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	Apr-16	44.3	42.8	38.4	33.8	44.3	37.1	50 mg/Nm ³
2	May-16	40.2	45.0	42.6	39.4	37.4	30.4	
3	Jun-16	42.1	47.1	39.7	42.8	39.2	32.6	
4	Jul-16	48.7	43.8	43.8	36.4	49.8	43.4	
5	Aug-16	41.8	46.2	40.8	40.1	43.6	38.9	
6	Sep-16	42.8	44.7	44.6	34.8	38.4	33.8	
Average Values		43.32	44.93	41.65	37.88	42.12	36.03	

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Ambient Noise level Monitoring Report From APR 2016 TO SEP 2016 dB(A) WEIGHTED AVERAGE (TWA) OF NOISE LEVEL IN dB(A)							TIME
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-16	68.2	72.6	66.8	69.4	63.2	75dB(A) in day & 70 dB(A) in night
2	May-16	70.4	73.6	69.7	65.0	64.6	
3	Jun-16	71.2	70.8	67.1	68.2	66.7	
4	Jul-16	67.8	69.7	64.3	66.2	66.8	
5	Aug-16	69.4	70.2	66.4	63.8	64.7	
6	Sep-16	70.2	72.9	69.7	67.4	66.2	
Average Values		69.53	71.63	67.33	66.67	65.37	

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Fugitive Dust Emission Level Monitoring Report for the period APR 2016 TO SEP 2016**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-16	7.28	7.55	3.84	5.46	5.84
2	May-16	8.91	8.59	6.44	6.89	4.53
3	Jun-16	8.24	8.12	6.19	7.26	6.48
4	Jul-16	7.84	6.89	6.64	5.68	5.42
5	Aug-16	9.64	8.72	9.10	7.89	8.18
6	Sep-16	7.69	7.12	6.92	6.10	5.78
Average		8.27	7.83	6.52	6.55	6.04

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Factory: Plot No. 1644, Bheriya Road, Kulharia, Durgauti, Bhabhua, Bihar



SHIVA TEST HOUSE

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

JAS ANZ



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OHSAS Certified

RECOGNISED AS ENVIRONMENTAL LABORATORY BY CENTRAL GOVT. UNDER ENVIRONMENT (PROTECTION) ACT 1986 (VALID UPTO MAR. 2018),
BY DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

TEST REPORT

Ref.No. ECL/TR/16-17/117(g) Dt: 17.05.2016 Yr: PO No. ECO/BIHAR/SHIVA TEST HOUSE N.O./RS/2016 Dt: 19.04.2016

[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)				
[b]	Report to be submitted to	Director				
[c]	Details of Sample	Monitoring of Ambient Air Quality				
[d]	Sample Collected by	SHIVA TEST HOUSE on 11/12.04.16				
[e]	No. & Type of Container	Filter Paper ; Glass Impinger				
[f]	Items required to be tested	As per request				
[g]	Whether any specific Method of Test has been suggested by the party	No				
[h]	Date of receiving the sample	12.04.16				
Parameters	Method of Test	Sampling Station				Limit as NAAQS Nov. '2009
		Near Main Gate	Near CCR	Near Canteen	Near Gypsum & Clinker Storage Area	
1. Particulate Matter (PM ₁₀). µg / m ³	IS 5182 (Part-23)	94.4	100.5	88.9	75.9	100 µg / m ³
		87.3	93.3	96.0	103.1	
		80.2	87.2	84.3	64.3	
2. Particulate Matter (PM _{2.5}). µg / m ³	CPCB	58.4	60.5	52.5	43.9	60 µg / m ³
		54.0	56.2	56.7	59.5	
		49.6	52.4	49.7	37.2	
3. Sulphur Dioxide as SO ₂ . µg / m ³	IS 5182 (Part-2)	15.7	17.9	18.7	29.5	80 µg / m ³
		17.4	19.1	19.4	32.4	
		19.6	21.1	20.8	35.3	
		18.5	16.7	22.7	34.4	
		14.6	14.9	23.9	24.6	
4. Nitrogen Dioxide as NO ₂ . µg / m ³	IS 5182 (Part-6)	22.9	24.9	30.2	44.0	80 µg / m ³
		23.8	25.5	31.1	45.7	
		26.8	26.5	32.3	48.0	
		22.4	25.3	27.9	44.8	
		21.8	22.3	27.2	43.8	
19.2	21.3	26.5	41.7			
24 Hrs. Average Value						
	PM ₁₀	87.3	93.7	89.7	81.1	
	PM _{2.5}	54.0	56.4	52.9	46.8	
	SO ₂	16.5	17.2	20.6	29.8	
	NO ₂	22.8	24.3	29.2	44.7	



[Signature]
17/5/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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



Laboratory Address :-
01st Floor, Rajhans Niketan,
Near Canal, Rukunpura,
Bailey Road,
Patna – 800 014 (Bihar)



SHIVA TEST HOUSE

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



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TEST REPORT

Ref.No. ECL/TR/16-17/148(g) Dt: 31.05.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE W.O./RS/2016 Dt: 19.04.2016

[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)				
[b]	Report to be submitted to	Director				
[c]	Details of Sample	Monitoring of Ambient Air Quality				
[d]	Sample Collected by	SHIVA TEST HOUSE on 09/10.05.16				
[e]	No. & Type of Container	Filter Paper ; Glass Impinger				
[f]	Items required to be tested	As per request				
[g]	Whether any specific Method of Test has been suggested by the party	No				
[h]	Date of receiving the sample	10.05.16				
Parameters	Method of Test	Sampling Station				Limit as NAAQS Nov.'2009
		Near Main Gate	Near CCR	Near Canteen	Near Gypsum & Clinker Storage Area	
1. Particulate Matter (PM ₁₀), µg / m ³	IS 5182 (Part-23)	98.0	86.7	74.0	92.0	100 µg / m ³
		91.0	93.6	100.6	85.1	
		85.0	82.2	62.7	78.2	
2. Particulate Matter (PM _{2.5}), µg / m ³	CPCB	59.0	51.2	42.8	56.9	60 µg / m ³
		54.8	55.2	58.0	52.7	
		51.1	48.5	36.2	48.4	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	20.6	21.5	17.7	17.8	80 µg / m ³
		22.0	22.4	19.5	19.7	
		24.2	23.9	21.2	22.2	
		19.3	26.1	20.6	21.0	
		17.1	27.5	14.8	16.5	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	15.7	20.8	13.6	14.6	80 µg / m ³
		29.9	36.2	33.0	27.4	
		30.6	37.3	34.3	28.6	
		31.8	38.7	36.0	32.1	
		30.3	33.5	33.6	29.9	
24 Hrs. Average Value						
	PM ₁₀	91.3	87.5	79.1	85.1	
	PM _{2.5}	54.9	51.6	45.7	52.7	
	SO ₂	19.8	23.7	17.9	18.6	
	NO ₂	29.1	35.0	33.5	27.4	



[Signature]
31/5/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/210(g) Dt: 02.07.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE W.D./RS/2016 Dt: 19.04.2016

[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)				
[b]	Report to be submitted to	Director				
[c]	Details of Sample	Monitoring of Ambient Air Quality				
[d]	Sample Collected by	SHIVA TEST HOUSE on 14/15.06.16				
[e]	No. & Type of Container	Filter Paper ; Glass Impinger				
[f]	Items required to be tested	As per request				
[g]	Whether any specific Method of Test has been suggested by the party	No				
[h]	Date of receiving the sample	15.06.16				
Parameters	Method of Test	Sampling Station				Limit as NAAQS Nov. '2009
		Near Main Gate	Near CCR	Near Canteen	Near Gypsum & Clinker Storage Area	
1. Particulate Matter (PM ₁₀), $\mu\text{g}/\text{m}^3$	IS 5182 (Part-23)	96.4	104.6	72.9	94.7	100 $\mu\text{g}/\text{m}^3$
		116.2	91.6	99.0	82.4	
		83.5	80.3	61.8	75.7	
2. Particulate Matter (PM _{2.5}), $\mu\text{g}/\text{m}^3$	CPCB	69.3	62.4	43.5	56.3	60 $\mu\text{g}/\text{m}^3$
		53.9	54.0	59.1	49.7	
		50.2	47.4	36.7	45.2	
3. Sulphur Dioxide as SO ₂ , $\mu\text{g}/\text{m}^3$	IS 5182 (Part-2)	23.7	24.8	10.6	20.1	80 $\mu\text{g}/\text{m}^3$
		25.3	25.7	11.7	22.2	
		27.9	27.5	12.7	25.1	
		22.1	30.0	12.4	23.7	
		19.7	31.7	8.9	18.6	
4. Nitrogen Dioxide as NO ₂ , $\mu\text{g}/\text{m}^3$	IS 5182 (Part-6)	18.1	23.9	8.1	16.5	80 $\mu\text{g}/\text{m}^3$
		35.9	43.5	24.8	32.9	
		36.7	44.8	25.7	34.3	
		38.1	46.5	27.0	38.5	
		36.4	40.2	25.2	32.3	
24 Hrs. Average Value		32.1	39.1	24.6	31.4	
		30.7	38.1	23.5	27.6	
		98.7	92.2	77.9	84.3	
		57.8	54.6	46.4	50.4	
		22.8	27.2	10.7	21.0	
NO ₂		35.0	42.0	25.1	32.9	



Handwritten Signature
02/07/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/270(g) Dt : 01.08.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2016 Dt : 19.04.2016

[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)				
[b]	Report to be submitted to	Director				
[c]	Details of Sample	Monitoring of Ambient Air Quality				
[d]	Sample Collected by	SHIVA TEST HOUSE on 17/18.07.16				
[e]	No. & Type of Container	Filter Paper ; Glass Impinger				
[f]	Items required to be tested	As per request				
[g]	Whether any specific Method of Test has been suggested by the party	No				
[h]	Date of receiving the sample	18.07.16				
Parameters	Method of Test	Sampling Station				Limit as NAAQS Nov. '2009
		Near Main Gate	Near CCR	Near Canteen	Near Gypsum & Clinker Storage Area	
1. Particulate Matter (PM ₁₀), µg / m ³	IS 5182 (Part-23)	81.4	107.7	102.1	76.9	100 µg / m ³
		113.3	94.3	88.8	104.4	
		94.0	82.8	81.6	65.1	
2. Particulate Matter (PM _{2.5}), µg / m ³	CPCB	48.9	64.3	60.7	45.8	60 µg / m ³
		52.5	55.6	53.6	62.3	
		67.6	48.8	48.7	38.7	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	23.1	25.5	20.8	11.2	80 µg / m ³
		24.7	26.5	23.0	12.3	
		27.2	28.3	25.9	13.4	
		21.6	30.9	24.5	13.1	
		19.2	32.6	19.3	9.4	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	17.6	24.6	17.0	8.6	80 µg / m ³
		26.9	32.6	24.7	18.6	
		27.5	33.6	25.7	19.3	
		28.6	34.9	28.9	20.2	
		27.3	30.1	24.2	18.9	
24 Hrs. Average Value		24.0	29.4	23.6	18.5	
		23.0	28.6	20.7	17.6	
		96.2	94.9	90.8	82.1	
		56.3	56.2	54.3	48.9	
		22.2	28.1	21.8	11.3	
		26.2	31.5	24.6	18.8	



[Signature]
01/08/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/310(g) Dt : 02.09.2016 Your PO No. ECOBHR/SHIVA TEST HOUSE M.O./RS/2016 Dt : 19.04.2016

[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)				
[b]	Report to be submitted to	Director				
[c]	Details of Sample	Monitoring of Ambient Air Quality				
[d]	Sample Collected by	SHIVA TEST HOUSE on 12/13.08.16				
[e]	No. & Type of Container	Filter Paper ; Glass Impinger				
[f]	Items required to be tested	As per request				
[g]	Whether any specific Method of Test has been suggested by the party	No				
[h]	Date of receiving the sample	13.08.16				
Parameters	Method of Test	Sampling Station				Limit as NAAQS Nov. '2009
		Near Main Gate	Near CCR	Near Canteen	Near Gypsum & Clinker Storage Area	
1. Particulate Matter (PM ₁₀), µg / m ³	IS 5182 (Part-23)	92.0	103.6	93.7	81.9	100 µg / m ³
		85.1	96.1	101.2	111.2	
		78.2	89.8	88.8	69.3	
2. Particulate Matter (PM _{2.5}), µg / m ³	CPCB	56.9	62.3	55.3	47.3	60 µg / m ³
		52.7	57.9	59.7	64.2	
		48.4	53.9	52.4	40.0	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	23.6	14.4	15.0	12.6	80 µg / m ³
		26.0	15.3	15.6	13.9	
		28.3	16.8	16.6	15.7	
		27.5	13.4	18.1	14.8	
		19.7	11.9	19.2	11.7	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	18.1	10.9	14.4	10.3	80 µg / m ³
		35.2	19.9	24.1	18.3	
		36.5	20.4	24.9	19.1	
		38.4	21.2	25.8	21.4	
		35.8	20.2	22.3	18.0	
24 Hrs. Average Value						
	PM ₁₀	85.1	96.5	94.6	87.5	
	PM _{2.5}	52.7	58.0	55.8	50.5	
	SO ₂	23.9	13.8	16.5	13.2	
	NO ₂	35.7	19.4	23.3	18.3	



[Signature]
02/09/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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SHIVA TEST HOUSE

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

TEST REPORT

Ref.No. ECL/TR/16-17/366(g) Dt : 08.10.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE/W.O./RS/2016 Dt : 19.04.2016						
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)				
[b]	Report to be submitted to	Director				
[c]	Details of Sample	Monitoring of Ambient Air Quality				
[d]	Sample Collected by	SHIVA TEST HOUSE on 23/24.09.16				
[e]	No. & Type of Container	Filter Paper ; Glass Impinger				
[f]	Items required to be tested	As per request				
[g]	Whether any specific Method of Test has been suggested by the party	No				
[h]	Date of receiving the sample	24.09.16				
Parameters	Method of Test	Sampling Station				Limit as NAAQS Nov. '2009
		Near Main Gate	Near CCR	Near Canteen	Near Gypsum & Clinker Storage Area	
1. Particulate Matter (PM ₁₀), µg / m ³	IS 5182 (Part-23)	95.6	105.1	91.3	103.9	100 µg / m ³
		88.7	91.4	98.7	125.3	
		82.9	84.1	86.6	90.0	
2. Particulate Matter (PM _{2.5}), µg / m ³	CPCB	57.5	62.5	53.9	74.7	60 µg / m ³
		53.4	55.2	58.2	58.1	
		49.8	50.2	51.1	54.1	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	16.5	16.6	17.2	19.0	80 µg / m ³
		17.6	18.4	17.9	20.3	
		19.4	20.7	19.1	22.3	
		15.4	19.6	20.9	17.7	
		13.7	15.4	22.0	15.7	
		12.6	13.6	16.6	14.5	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	23.9	19.8	29.0	28.7	80 µg / m ³
		24.5	20.6	29.8	29.4	
		25.4	23.1	31.0	30.5	
		24.2	19.4	26.8	29.1	
		21.4	18.9	26.1	25.6	
		20.4	16.6	25.4	24.5	
24 Hrs. Average Value						
	PM ₁₀	89.0	93.6	92.2	106.4	
	PM _{2.5}	53.6	56.0	54.4	62.3	
	SO ₂	15.9	17.4	19.0	18.2	
	NO ₂	23.3	19.7	28.0	28.0	



Handwritten Signature
08/10/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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SHIVA TEST HOUSE

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TEST REPORT

Ref.No. ECL/TR/16-17/117(i) Dt : 17.05.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE W.O./RS/2016 Dt : 19.04.2016	
[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)
[b] Report to be submitted to	Director
[c] Details of Sample	Monitoring of Ambient Noise Level
[d] Monitored by	SHIVA TEST HOUSE on 11.04.16
[f] Whether any specific Method of Test has been suggested by the party	No
Sampling Location	Time Weighted Average (TWA) of Day Time Noise Level in dB(A)
1. Near Main Gate	68.2
2. Near CCR	72.6
3. Near Canteen	66.8
4. Near Gypsum Storage Area	69.4
5. Near Clinker Storage Area	63.2
N.B.:	The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.



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Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/148(i) Dt : 31.05.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE/W.O./RS/2016 Dt : 19.04.2016	
[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)
[b] Report to be submitted to	Director
[c] Details of Sample	Monitoring of Ambient Noise Level
[d] Monitored by	SHIVA TEST HOUSE on 09.05.16
[f] Whether any specific Method of Test has been suggested by the party	No
Sampling Location	Time Weighted Average (TWA) of Day Time Noise Level in dB(A)
1. Near Main Gate	70.4
2. Near CCR	73.6
3. Near Canteen	69.7
4. Near Gypsum Storage Area	65.0
5. Near Clinker Storage Area	64.6
N.B.:	The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.



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TEST REPORT

Ref.No. ECL/TR/16-17/210(i) Dt : 02.07.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE/W.O./RS/2016 Dt : 19.04.2016	
[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)
[b] Report to be submitted to	Director
[c] Details of Sample	Monitoring of Ambient Noise Level
[d] Monitored by	SHIVA TEST HOUSE on 14.06.16
[f] Whether any specific Method of Test has been suggested by the party	No
Sampling Location	Time Weighted Average (TWA) of Day Time Noise Level in dB(A)
1. Near Main Gate	71.2
2. Near CCR	70.8
3. Near Canteen	67.1
4. Near Gypsum Storage Area	68.2
5. Near Clinker Storage Area	66.7
N.B.:	The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.




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TEST REPORT

Ref.No. ECL/TR/16-17/270(i) Dt : 01.08.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE A/O./RS/2016 Dt : 19.04.2016	
[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)
[b] Report to be submitted to	Director
[c] Details of Sample	Monitoring of Ambient Noise Level
[d] Monitored by	SHIVA TEST HOUSE on 17.07.16
[f] Whether any specific Method of Test has been suggested by the party	No
Sampling Location	Time Weighted Average (TWA) of Day Time Noise Level in dB(A)
1. Near Main Gate	67.8
2. Near CCR	69.7
3. Near Canteen	64.3
4. Near Gypsum Storage Area	66.2
5. Near Clinker Storage Area	66.8
N.B.:	The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.



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TEST REPORT

Ref.No. ECL/TR/16-17/310(i) Dt : 02.09.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE W.O./RS/2016 Dt : 19.04.2016	
[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)
[b] Report to be submitted to	Director
[c] Details of Sample	Monitoring of Ambient Noise Level
[d] Monitored by	SHIVA TEST HOUSE on 12.08.16
[f] Whether any specific Method of Test has been suggested by the party	No
Sampling Location	Time Weighted Average (TWA) of Day Time Noise Level in dB(A)
1. Near Main Gate	69.4
2. Near CCR	70.2
3. Near Canteen	66.4
4. Near Gypsum Storage Area	63.8
5. Near Clinker Storage Area	64.7
N.B.:	The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.



[Signature]
02/09/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/366(i) Dt : 08.10.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE W.O./RS/2016 Dt : 19.04.2016	
[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)
[b] Report to be submitted to	Director
[c] Details of Sample	Monitoring of Ambient Noise Level
[d] Monitored by	SHIVA TEST HOUSE on 23.09.16
[f] Whether any specific Method of Test has been suggested by the party	No
Sampling Location	Time Weighted Average (TWA) of Day Time Noise Level in dB(A)
1. Near Main Gate	70.2
2. Near CCR	72.9
3. Near Canteen	69.7
4. Near Gypsum Storage Area	67.4
5. Near Clinker Storage Area	66.2
N.B.:	The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.



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TEST REPORT

Ref.No. ECL/TR/16-17/117(ii) Dt : 17.05.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE/W.O./RS/2016 Dt : 19.04.2016

[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)			
[b]	Report to be submitted to	Director			
[c]	Details of Sample	Monitoring of Fugitive Emissions in Work Zone Area			
[d]	Monitored by	SHIVA TEST HOUSE on 11.04.16			
[e]	No. and Type of Container	Filter Paper			
[f]	Items required to be tested	As per request			
[g]	Whether any specific Method of Test has been suggested by the party	No			
[h]	Date of receiving the sample	12.04.16			
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	7.28	10.00	2.91	5.00
2	Mill Section 01 st Floor	7.55	10.00	2.33	5.00
3	Mill Section 02 nd Floor	3.84	10.00	1.85	5.00
4	South side of Mill Section	5.46	10.00	2.15	5.00
5	North side of Mill Section	5.84	10.00	2.43	5.00

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



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TEST REPORT

Ref.No. <i>ECL/TR/16-17/148(h)</i> Dt : <i>31.05.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE/A.O./RS/2016</i> Dt : <i>19.04.2016</i>					
[a]	Name and address of the Customer		ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)		
[b]	Report to be submitted to		Director		
[c]	Details of Sample		Monitoring of Fugitive Emissions in Work Zone Area		
[d]	Monitored by		SHIVA TEST HOUSE on <i>09.05.16</i>		
[e]	No. and Type of Container		Filter Paper		
[f]	Items required to be tested		As per request		
[g]	Whether any specific Method of Test has been suggested by the party		No		
[h]	Date of receiving the sample		<i>10.05.16</i>		
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	8.91	10.00	3.35	5.00
2	Mill Section 01 st Floor	8.59	10.00	4.19	5.00
3	Mill Section 02 nd Floor	6.44	10.00	3.18	5.00
4	South side of Mill Section	6.89	10.00	3.55	5.00
5	North side of Mill Section	4.53	10.00	2.67	5.00
*Permissible Time Weighted Average (TWA) Conc ⁿ based on Silica Content as per Factories Act 1948 Second Schedule					



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TEST REPORT

Ref.No. ECL/TR/16-17/210(lt) Dt : 02.07.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE/W.O./RS/2016 Dt : 19.04.2016					
[a]	Name and address of the Customer		ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)		
[b]	Report to be submitted to		Director		
[c]	Details of Sample		Monitoring of Fugitive Emissions in Work Zone Area		
[d]	Monitored by		SHIVA TEST HOUSE on 14.06.16		
[e]	No. and Type of Container		Filter Paper		
[f]	Items required to be tested		As per request		
[g]	Whether any specific Method of Test has been suggested by the party		No		
[h]	Date of receiving the sample		15.06.16		
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	8.24	10.00	3.29	5.00
2	Mill Section 01 st Floor	8.12	10.00	3.10	5.00
3	Mill Section 02 nd Floor	6.19	10.00	2.87	5.00
4	South side of Mill Section	7.26	10.00	2.98	5.00
5	North side of Mill Section	6.48	10.00	2.70	5.00
*Permissible Time Weighted Average (TWA) Conc ⁿ based on Silica Content as per Factories Act'1948 Second Schedule					



02/7/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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Laboratory Address :-
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SHIVA TEST HOUSE

Tel. : 0612 - 2247538/ 2240752 ; TeleFax : 0612 - 2590705
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TEST REPORT

Ref.No. ECL/TR/16-17/270(h) Dt : 01.08.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE/W.O./RS/2016 Dt : 19.04.2016

[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)			
[b]	Report to be submitted to	Director			
[c]	Details of Sample	Monitoring of Fugitive Emissions in Work Zone Area			
[d]	Monitored by	SHIVA TEST HOUSE on 17.07.16			
[e]	No. and Type of Container	Filter Paper			
[f]	Items required to be tested	As per request			
[g]	Whether any specific Method of Test has been suggested by the party	No			
[h]	Date of receiving the sample	18.07.16			
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	7.84	10.00	4.12	5.00
2	Mill Section 01 st Floor	6.89	10.00	3.97	5.00
3	Mill Section 02 nd Floor	6.64	10.00	3.66	5.00
4	South side of Mill Section	5.68	10.00	2.84	5.00
5	North side of Mill Section	5.42	10.00	3.10	5.00

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



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01/08/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/310(h) Dt : 02.09.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE W.O./RS/2016 Dt : 19.04.2016					
[a]	Name and address of the Customer		ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)		
[b]	Report to be submitted to		Director		
[c]	Details of Sample		Monitoring of Fugitive Emissions in Work Zone Area		
[d]	Monitored by		SHIVA TEST HOUSE on 12.08.16		
[e]	No. and Type of Container		Filter Paper		
[f]	Items required to be tested		As per request		
[g]	Whether any specific Method of Test has been suggested by the party		No		
[h]	Date of receiving the sample		13.08.16		
S. N.	Sampling Point	Concentration of Total Dust	Permissible T W A Conc ⁿ -	Concentration of Respirable Dust	Permissible T W A Conc ⁿ -
		(mg/M ³)	(mg/M ³)	(mg/M ³)	(mg/M ³)
1	Mill Section Ground Floor	9.64	10.00	4.62	5.00
2	Mill Section 01 st Floor	8.72	10.00	4.27	5.00
3	Mill Section 02 nd Floor	9.10	10.00	4.19	5.00
4	South side of Mill Section	7.89	10.00	3.66	5.00
5	North side of Mill Section	8.18	10.00	3.85	5.00
*Permissible Time Weighted Average (T W A) Conc ⁿ based on Silica Content as per Factories Act'1948 Second Schedule					



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02/09/16
Authorized Signatory
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TEST REPORT

Ref.No. <i>ECL/TR/16-17/366(h)</i> Dt : <i>08.10.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE W.O./RS/2016</i> Dt : <i>19.04.2016</i>					
[a]	Name and address of the Customer		ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)		
[b]	Report to be submitted to		Director		
[c]	Details of Sample		Monitoring of Fugitive Emissions in Work Zone Area		
[d]	Monitored by		SHIVA TEST HOUSE on 23.09.16		
[e]	No. and Type of Container		Filter Paper		
[f]	Items required to be tested		As per request		
[g]	Whether any specific Method of Test has been suggested by the party		No		
[h]	Date of receiving the sample		24.09.16		
S. N.	Sampling Point	Concentration of Total Dust	Permissible T W A Conc ⁿ *	Concentration of Respirable Dust	Permissible T W A Conc ⁿ *
		(mg/M ³)	(mg/M ³)	(mg/M ³)	(mg/M ³)
1	Mill Section Ground Floor	7.69	10.00	3.87	5.00
2	Mill Section 01 st Floor	7.12	10.00	3.65	5.00
3	Mill Section 02 nd Floor	6.92	10.00	3.18	5.00
4	South side of Mill Section	6.10	10.00	2.66	5.00
5	North side of Mill Section	5.78	10.00	2.42	5.00
*Permissible Time Weighted Average (T W A) Conc ⁿ based on Silica Content as per Factories Act'1948 Second Schedule					



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TEST REPORT

Ref.No. ECL/TR/16-17/117(f) Dt : 17.05.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2016 Dt : 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 11.04.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	12.04.16	
	Parameters	Method of Test	Results
1.	Stack Connected to		Bag House attached with Cement Mill
2.	Height of Stack (as reported)		33 m.
3.	Dia of Stack at Top (as reported)		1.2 m.
4.	Draft		ID Fan
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		38.0
7.	Flue Gas Temperature, °C		52.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	9.4
9.	Volumetric Flow Rate, NM ³ /hr.		35074.8
10.	Sampling Point		21 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	44.3
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	18.4
			50.0 mg / NM ³
			Not Specified
			Not Specified



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17/5/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. *ECL/TR/16-17/148(f)* Dt : *31.05.2016* Your PO No. *ECO/BHR/SHIVA TEST HOUSE W.O./RS/2016* Dt : *19.04.2016*

[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 09.05.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	10.05.16	
Parameters		Method of Test	Results
1.	Stack Connected to		Bag House attached with Cement Mill
2.	Height of Stack (as reported)		33 m.
3.	Dia of Stack at Top (as reported)		1.2 m.
4.	Draft		ID Fan
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		37.0
7.	Flue Gas Temperature, °C		55.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	7.1
9.	Volumetric Flow Rate, NM ³ /hr.		26250.4
10.	Sampling Point		21 m.
		Concentration (mg / NM ³)	Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	40.2 50.0 mg / NM ³
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable Not Specified
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	13.1 Not Specified



[Signature]
31/5/16
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TEST REPORT

Ref.No. ECL/TR/16-17/210(f) Dt : 02.07.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2016 Dt : 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 14.06.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	15.06.16	
	Parameters	Method of Test	Results
1.	Stack Connected to		Bag House attached with Cement Mill
2.	Height of Stack (as reported)		33 m.
3.	Dia of Stack at Top (as reported)		1.2 m.
4.	Draft		ID Fan
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		40.0
7.	Flue Gas Temperature, °C		60.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	8.3
9.	Volumetric Flow Rate, NM ³ /hr.		30226.3
10.	Sampling Point		21 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	42.1 50.0 mg / NM ³
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable Not Specified
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	16.2 Not Specified



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02/07/16
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Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/270(f) Dt : 01.08.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE W.O./RS/2016 Dt : 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 17.07.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	18.07.16	
	Parameters	Method of Test	Results
	1. Stack Connected to		Bag House attached with Cement Mill
	2. Height of Stack (as reported)		33 m.
	3. Dia of Stack at Top (as reported)		1.2 m.
	4. Draft		ID Fan
	5. Material of Construction		M.S.
	6. Ambient Temperature, °C		39.0
	7. Flue Gas Temperature, °C		54.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	10.8
	9. Volumetric Flow Rate, NM ³ /hr.		40052.3
	10. Sampling Point		21 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	48.7 50.0 mg / NM ³
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable Not Specified
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	22.8 Not Specified



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TEST REPORT

Ref.No. ECL/TR/16-17/310(f) Dt : 02.09.2016 Your PO No. ECO/BHRSHIVA TEST HOUSE /W.O./RS/2016 Dt : 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 12.08.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	13.08.16	
	Parameters	Method of Test	Results
	1. Stack Connected to		Bag House attached with Cement Mill
	2. Height of Stack (as reported)		33 m.
	3. Dia of Stack at Top (as reported)		1.2 m.
	4. Draft		ID Fan
	5. Material of Construction		M.S.
	6. Ambient Temperature, °C		42.0
	7. Flue Gas Temperature, °C		51.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	7.7
	9. Volumetric Flow Rate, NM ³ /hr.		28820.2
	10. Sampling Point		21 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	41.8
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	17.2
			50.0 mg / NM ³
			Not Specified
			Not Specified



[Signature]
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Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/16-17/366(f)</i> Dt : <i>08.10.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE W.O./RS/2016</i> Dt : <i>19.04.2016</i>			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 23.09.16	
[c]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	24.09.16	
	Parameters	Method of Test	Results
	1. Stack Connected to		Bag House attached with Cement Mill
	2. Height of Stack (as reported)		33 m.
	3. Dia of Stack at Top (as reported)		1.2 m.
	4. Draft		ID Fan
	5. Material of Construction		M.S.
	6. Ambient Temperature, °C		36.0
	7. Flue Gas Temperature, °C		59.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	9.6
	9. Volumetric Flow Rate, NM ³ /hr.		35065.8
	10. Sampling Point		21 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	42.8 50.0 mg / NM ³
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable Not Specified
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	15.0 Not Specified



[Signature]
08/10/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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Laboratory Address :-
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Bailey Road,
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SHIVA TEST HOUSE

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



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TEST REPORT

Ref.No. <i>ECL/TR/16-17/117(e)</i> Dt : <i>17.05.2016</i> Your PO No. <i>ECO/BIHSHIVA TEST HOUSE /M.O./RS/2016</i> Dt : <i>19.04.2016</i>			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 11.04.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	12.04.16	
	Parameters	Method of Test	Results
	1. Stack Connected to		Bag House of flyash unloader
	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		33.0
	7. Flue Gas Temperature, °C		53.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	7.7
	9. Volumetric Flow Rate, NM ³ /hr.		21930.1
	10. Sampling Point		14 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	42.8 50.0 mg / NM ³
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable Not Specified
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	16.4 Not Specified



[Signature]
13/5/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/16-17/148(e)</i> Dt : <i>31.05.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE W.O./RS/2016</i> Dt : <i>19.04.2016</i>			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	<i>Director</i>	
[c]	Details of Sample	<i>Monitoring of Stack Emission</i>	
[d]	Sample Collected by	<i>SHIVA TEST HOUSE on 09.05.16</i>	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[f]	Items required to be tested	<i>As per request</i>	
[g]	Whether any specific Method of Test has been suggested by the party	<i>No</i>	
[h]	Date of receiving the sample	<i>10.05.16</i>	
	Parameters	Method of Test	Results
1.	Stack Connected to		Bag House of flyash unloader
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		37.0
7.	Flue Gas Temperature, °C		57.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	9.8
9.	Volumetric Flow Rate, NM ³ /hr.		27572.7
10.	Sampling Point		14 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	45.0 <i>50.0 mg / NM³</i>
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable <i>Not Specified</i>
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	12.6 <i>Not Specified</i>



[Signature]
31/5/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/16-17/210(e)</i> Dt : <i>02.07.2016</i> Your PO No. <i>ECO/BIH/SHIVA TEST HOUSE W.O./RS/2016</i> Dt : <i>19.04.2016</i>			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 14.06.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	15.06.16	
	Parameters	Method of Test	Results
1.	Stack Connected to		Bag House of flyash unloader
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		41.0
7.	Flue Gas Temperature, °C		60.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	10.2
9.	Volumetric Flow Rate, NM ³ /hr.		28439.6
10.	Sampling Point		14 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	47.1
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	10.2
			50.0 mg / NM ³
			Not Specified
			Not Specified



[Signature]
02/7/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/270(e) Dt : 01.08.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2016 Dt : 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 17.07.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	18.07.16	
	Parameters	Method of Test	Results
	1. Stack Connected to		Bag House of flyash unloader
	2. Height of Stack (as reported)		30 m.
	3. Dia of Stack at Top (as reported)		1.05 m.
	4. Draft		ID Fan
	5. Material of Construction		M.S.
	6. Ambient Temperature, °C		38.0
	7. Flue Gas Temperature, °C		56.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	8.4
	9. Volumetric Flow Rate, NM ³ /hr.		23705.6
	10. Sampling Point		14 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	43.8
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	15.0
			50.0 mg / NM ³
			Not Specified
			Not Specified



[Signature]
01/08/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/16-17/310(e)</i> Dt : <i>02.09.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE/W.O./RS/2016</i> Dt : <i>19.04.2016</i>			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 12.08.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	13.08.16	
	Parameters	Method of Test	Results
	1. Stack Connected to		Bag House of flyash unloader
	2. Height of Stack (as reported)		30 m.
	3. Dia of Stack at Top (as reported)		1.05 m.
	4. Draft		ID Fan
	5. Material of Construction		M.S.
	6. Ambient Temperature, °C		35.0
	7. Flue Gas Temperature, °C		52.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	6.9
	9. Volumetric Flow Rate, NM ³ /hr.		19712.1
	10. Sampling Point		14 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	46.2
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	20.4
			50.0 mg / NM ³
			Not Specified
			Not Specified



[Signature]
02/09/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/16-17/366(e)</i> Dt : <i>08.10.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS 2016</i> Dt : <i>19.04.2016</i>			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 23.09.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	24.09.16	
	Parameters	Method of Test	Results
	1. Stack Connected to		Bag House of flyash unloader
	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		32.0
	7. Flue Gas Temperature, °C		55.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	7.8
	9. Volumetric Flow Rate, NM ³ /hr.		22079.4
	10. Sampling Point		14 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	44.7
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	11.2
			50.0 mg / NM ³
			Not Specified
			Not Specified



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08/10/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/16-17/117(c)</i> Dt : <i>17.05.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2016</i> Dt : <i>19.04.2016</i>			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on <i>11.04.16</i>	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	<i>12.04.16</i>	
	Parameters	Method of Test	Results
1.	Stack Connected to		Bag House of Clinker & gypsum unloader Section
2.	Height of Stack (as reported)		30 m.
3.	Dia of Stack at Top (as reported)		0.75 m.
4.	Draft		ID Fan
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		33.0
7.	Flue Gas Temperature, °C		48.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	5.6
9.	Volumetric Flow Rate, NM ³ /hr.		8264.1
10.	Sampling Point		11 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	38.4 50.0 mg / NM ³
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable Not Specified
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	14.8 Not Specified



Hasm
17/5/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/148(c) Dt : 31.05.2016 Your PO No. ECO/BHRSHIVA TEST HOUSE /M.O./RS/2016 Dt : 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 09.05.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	10.05.16	
	Parameters	Method of Test	Results
1.	Stack Connected to		Bag House of Clinker & gypsum unloader Section
2.	Height of Stack (as reported)		30 m.
3.	Dia of Stack at Top (as reported)		0.75 m.
4.	Draft		ID Fan
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		37.0
7.	Flue Gas Temperature, °C		51.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	7.2
9.	Volumetric Flow Rate, NM ³ /hr.		10526.9
10.	Sampling Point		11 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	42.6 50.0 mg / NM ³
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable Not Specified
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	16.4 Not Specified



[Signature]
31/5/16
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Quality Manager / Dy. Quality Manager

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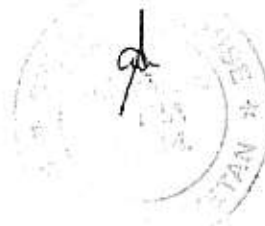


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TEST REPORT

Ref.No. <i>ECL/TR/16-17/210(c)</i> Dt: <i>02.07.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE W.O./RS/2016</i> Dt: <i>19.04.2016</i>			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 14.06.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	15.06.16	
	Parameters	Method of Test	Results
1.	Stack Connected to		Bag House of Clinker & gypsum unloader Section
2.	Height of Stack (as reported)		30 m.
3.	Dia of Stack at Top (as reported)		0.75 m.
4.	Draft		ID Fan
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		41.0
7.	Flue Gas Temperature, °C		57.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	6.4
9.	Volumetric Flow Rate, NM ³ /hr.		9187.1
10.	Sampling Point		11 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	39.7
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	11.3
			50.0 mg / NM ³
			Not Specified
			Not Specified



[Signature]
02/07/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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SHIVA TEST HOUSE

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TEST REPORT

Ref.No. <i>ECI/TR/16-17/270(c)</i> Dt : <i>01.08.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE/W.O./RS/2016</i> Dt : <i>19.04.2016</i>			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 17.07.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	18.07.16	
	Parameters	Method of Test	Results
1.	Stack Connected to		Bag House of Clinker & gypsum unloader Section
2.	Height of Stack (as reported)		30 m.
3.	Dia of Stack at Top (as reported)		0.75 m.
4.	Draft		ID Fan
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		38.0
7.	Flue Gas Temperature, °C		55.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	8.1
9.	Volumetric Flow Rate, NM ³ /hr.		11698.3
10.	Sampling Point		11 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	43.8 50.0 mg / NM ³
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable Not Specified
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	18.2 Not Specified



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Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/16-17/310(c)</i> Dt : <i>02.09.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE/W.O./RS/2016</i> Dt : <i>19.04.2016</i>				
[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)			
[b] Report to be submitted to	Director			
[c] Details of Sample	Monitoring of Stack Emission			
[d] Sample Collected by	SHIVA TEST HOUSE on 12.08.16			
[e] No. & Type of Container	Thimble & Glass Impinger			
[f] Items required to be tested	As per request			
[g] Whether any specific Method of Test has been suggested by the party	No			
[h] Date of receiving the sample	13.08.16			
Parameters	Method of Test	Results		
1. Stack Connected to		Bag House of Clinker & gypsum unloader Section		
2. Height of Stack (as reported)		30 m.		
3. Dia of Stack at Top (as reported)		0.75 m.		
4. Draft		ID Fan		
5. Material of Construction		M.S.		
6. Ambient Temperature, °C		35.0		
7. Flue Gas Temperature, °C		53.0		
8. Velocity, m/sec.		IS 11255 (Part-3)	5.1	
9. Volumetric Flow Rate, NM ³ /hr.			7410.8	
10. Sampling Point			11 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules	
11. Particulate Matter (P.M.)	IS 11255 (Part-1)	40.8	50.0 mg / NM ³	
12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	Not Specified	
13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	15.0	Not Specified	



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TEST REPORT

Ref.No. ECL/TR/16-17/366(c) Dt : 08.10.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE /V.O./RS/2016 Dt : 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 23.09.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	24.09.16	
	Parameters	Method of Test	Results
	1. Stack Connected to		Bag House of Clinker & gypsum unloader Section
	2. Height of Stack (as reported)		30 m.
	3. Dia of Stack at Top (as reported)		0.75 m.
	4. Draft		ID Fan
	5. Material of Construction		M.S.
	6. Ambient Temperature, °C		32.0
	7. Flue Gas Temperature, °C		50.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	6.8
	9. Volumetric Flow Rate, NM ³ /hr.		9972.8
	10. Sampling Point		11 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	44.6
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	12.6
			50.0 mg / NM ³
			Not Specified
			Not Specified



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Quality Manager / Dy. Quality Manager

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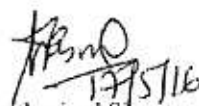
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TEST REPORT

Ref.No. ECL/IR/16-17/117(d) Dt : 17.05.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE W.O./RS/2016 Dt : 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 11.04.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	12.04.16	
	Parameters	Method of Test	Results
1.	Stack Connected to		Bag House of gypsum & clinker feeding Section
2.	Height of Stack (as reported)		30 m.
3.	Dia of Stack at Top (as reported)		0.6 m.
4.	Draft		ID Fan
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		33.0
7.	Flue Gas Temperature, °C		51.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	6.4
9.	Volumetric Flow Rate, NM ³ /hr.		5988.6
10.	Sampling Point		9 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	33.8 50.0 mg / NM ³
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable Not Specified
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	14.6 Not Specified




17/5/16
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Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/148(d) Dt : 31.05.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2016 Dt : 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 09.05.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	10.05.16	
	Parameters	Method of Test	Results
1.	Stack Connected to		Bag House of gypsum & clinker feeding Section
2.	Height of Stack (as reported)		30 m.
3.	Dia of Stack at Top (as reported)		0.6 m.
4.	Draft		ID Fan
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		37.0
7.	Flue Gas Temperature, °C		47.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	7.6
9.	Volumetric Flow Rate, NM ³ /hr.		7200.4
10.	Sampling Point		9 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	39.4
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	10.2
			50.0 mg / NM ³
			Not Specified
			Not Specified



[Signature]
31/5/16
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Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/16-17/210(d)</i> Dt: <i>02.07.2016</i> Your PO No. <i>ECO/BHRSHIVA TEST HOUSE W.O./RS/2016</i> Dt: <i>19.04.2016</i>			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 14.06.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	15.06.16	
	Parameters	Method of Test	Results
1.	Stack Connected to		Bag House of gypsum & clinker feeding Section
2.	Height of Stack (as reported)		30 m.
3.	Dia of Stack at Top (as reported)		0.6 m.
4.	Draft		ID Fan
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		41.0
7.	Flue Gas Temperature, °C		53.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	8.3
9.	Volumetric Flow Rate, NM ³ /hr.		7718.8
10.	Sampling Point		9 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	42.8
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	16.4



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TEST REPORT

Ref.No. ECL/TR/16-17/270(d) Dt: 01.08.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE/W.O./RS/2016 Dt: 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 17.07.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	18.07.16	
	Parameters	Method of Test	Results
1.	Stack Connected to		Bag House of gypsum & clinker feeding Section
2.	Height of Stack (as reported)		30 m.
3.	Dia of Stack at Top (as reported)		0.6 m.
4.	Draft		ID Fan
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		38.0
7.	Flue Gas Temperature, °C		52.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	6.8
9.	Volumetric Flow Rate, NM ³ /hr.		6343.3
10.	Sampling Point		9 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	36.4
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	12.7



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TEST REPORT

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[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 12.08.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	13.08.16	
	Parameters	Method of Test	Results
1.	Stack Connected to		Bag House of gypsum & clinker feeding Section
2.	Height of Stack (as reported)		30 m.
3.	Dia of Stack at Top (as reported)		0.6 m.
4.	Draft		ID Fan
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		35.0
7.	Flue Gas Temperature, °C		50.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	7.7
9.	Volumetric Flow Rate, NM ³ /hr.		7227.4
10.	Sampling Point		9 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	40.1 50.0 mg / NM ³
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable Not Specified
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	18.1 Not Specified



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TEST REPORT

Ref.No. ECL/TR/16-17/366(d) Dt : 08.10.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2016 Dt : 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 23.09.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	24.09.16	
	Parameters	Method of Test	Results
	1. Stack Connected to		Bag House of gypsum & clinker feeding Section
	2. Height of Stack (as reported)		30 m.
	3. Dia of Stack at Top (as reported)		0.6 m.
	4. Draft		ID Fan
	5. Material of Construction		M.S.
	6. Ambient Temperature, °C		32.0
	7. Flue Gas Temperature, °C		54.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	6.1
	9. Volumetric Flow Rate, NM ³ /hr.		5655.5
	10. Sampling Point		9 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	34.8 50.0 mg / NM ³
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable Not Specified
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	15.0 Not Specified



[Signature]
08/10/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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SHIVA TEST HOUSE

Tel. : 0612 – 2247538/ 2240752 ; TeleFax : 0612 - 2590705
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TEST REPORT

Ref.No. <i>ECL/TR/16-17/117(b)</i> Dt : <i>17.05.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE A/O/RS/2016</i> Dt : <i>19.04.2016</i>			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission of 500 KVA DG Set	
[d]	Sample Collected by	SHIVA TEST HOUSE on 11.04.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	12.04.16	
	Parameters	Method of Test	Results
	1. Stack Connected to		500 KVA DG Set
	2. Height of Stack (as reported)		3.0 m.
	3. Dia of Stack at Top (as reported)		0.2 m.
	4. Draft		Natural
	5. Material of Construction		M.S.
	6. Ambient Temperature, °C		33.0
	7. Flue Gas Temperature, °C		171.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	8.4
	9. Volumetric Flow Rate, NM ³ /hr.		637.3
	10. Sampling Point		Top of Exhaust
		Concentration (mg / NM³)	Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	44.3 75.0 mg / NM ³
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	68.4 Not Specified
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	192.6 710.0 mg / NM ³
N.B.:	There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust		



[Signature]
17/5/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/148(b) Dt : 31.05.2016 Your PO No. ECO/BHRSHIVA TEST HOUSE /W.O./RS/2016 Dt : 19.04.2016

[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)		
[b] Report to be submitted to	Director		
[c] Details of Sample	Monitoring of Stack Emission of 500 KVA DG Set		
[d] Sample Collected by	SHIVA TEST HOUSE on 09.05.16		
[e] No. & Type of Container	Thimble & Glass Impinger		
[f] Items required to be tested	As per request		
[g] Whether any specific Method of Test has been suggested by the party	No		
[h] Date of receiving the sample	10.05.16		
	Parameters	Method of Test	Results
1.	Stack Connected to		500 KVA DG Set
2.	Height of Stack (as reported)		3.0 m.
3.	Dia of Stack at Top (as reported)		0.2 m.
4.	Draft		Natural
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		37.0
7.	Flue Gas Temperature, °C		174.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	6.1
9.	Volumetric Flow Rate, NM ³ /hr.		459.7
10.	Sampling Point		Top of Exhaust
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	37.4
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	71.6
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	164.6
			75.0 mg / NM ³
			Not Specified
			710.0 mg / NM ³
N.B.: There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust			



[Signature]
31/5/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/16-17/210(b)</i> Dt : <i>02.07.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE W.O./RS2016</i> Dt : <i>19.04.2016</i>				
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)		
[b]	Report to be submitted to	Director		
[c]	Details of Sample	Monitoring of Stack Emission of 500 KVA DG Set		
[d]	Sample Collected by	SHIVA TEST HOUSE on 14.06.16		
[e]	No. & Type of Container	Thimble & Glass Impinger		
[f]	Items required to be tested	As per request		
[g]	Whether any specific Method of Test has been suggested by the party	No		
[h]	Date of receiving the sample	15.06.16		
	Parameters	Method of Test	Results	
	1. Stack Connected to		500 KVA DG Set	
	2. Height of Stack (as reported)		3.0 m.	
	3. Dia of Stack at Top (as reported)		0.2 m.	
	4. Draft		Natural	
	5. Material of Construction		M.S.	
	6. Ambient Temperature, °C		41.0	
	7. Flue Gas Temperature, °C		169.0	
	8. Velocity, m/sec.	IS 11255 (Part-3)	7.7	
	9. Volumetric Flow Rate, NM ³ /hr.		586.8	
	10. Sampling Point		Top of Exhaust	
		Concentration (mg / NM³)	Limit as per E (P) Rules	
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	39.2	75.0 mg / NM ³
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	66.7	Not Specified
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	177.2	710.0 mg / NM ³
N.B.:	There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust			



[Signature]
02/07/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/270(b) Dt: 01.08.2016 Your PO No. ECO/BIH/SHIVA TEST HOUSE/W.O./RS/2016 Dt: 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission of 500 KVA DG Set	
[d]	Sample Collected by	SHIVA TEST HOUSE on 17.07.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	18.07.16	
	Parameters	Method of Test	Results
	1. Stack Connected to		500 KVA DG Set
	2. Height of Stack (as reported)		3.0 m.
	3. Dia of Stack at Top (as reported)		0.2 m.
	4. Draft		Natural
	5. Material of Construction		M.S.
	6. Ambient Temperature, °C		38.0
	7. Flue Gas Temperature, °C		166.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	9.8
	9. Volumetric Flow Rate, NM ³ /hr.		752.0
	10. Sampling Point		Top of Exhaust
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	49.8
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	68.2
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	210.8
			75.0 mg / NM ³
			Not Specified
			710.0 mg / NM ³
N.B.:	There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust		



[Signature]
01/08/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/16-17/310(b)</i> Dt : <i>02.09.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE AV.O./RS/2016</i> Dt : <i>19.04.2016</i>			
[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)		
[b] Report to be submitted to	Director		
[c] Details of Sample	Monitoring of Stack Emission of 500 KVA DG Set		
[d] Sample Collected by	SHIVA TEST HOUSE on 12.08.16		
[e] No. & Type of Container	Thimble & Glass Impinger		
[f] Items required to be tested	As per request		
[g] Whether any specific Method of Test has been suggested by the party	No		
[h] Date of receiving the sample	13.08.16		
Parameters	Method of Test	Results	
1. Stack Connected to		500 KVA DG Set	
2. Height of Stack (as reported)		3.0 m.	
3. Dia of Stack at Top (as reported)		0.2 m.	
4. Draft		Natural	
5. Material of Construction		M.S.	
6. Ambient Temperature, °C		35.0	
7. Flue Gas Temperature, °C		164.0	
8. Velocity, m/sec.	IS 11255 (Part-3)	8.2	
9. Volumetric Flow Rate, NM ³ /hr.		632.1	
10. Sampling Point		Top of Exhaust	
		Concentration (mg / NM³)	Limit as per E (P) Rules
11. Particulate Matter (P.M.)	IS 11255 (Part-1)	43.6	75.0 mg / NM ³
12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	74.6	Not Specified
13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	187.9	710.0 mg / NM ³
N.B.: There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust			



Hasmid
02/09/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/366(b) Dt : 08.10.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2016 Dt : 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission of 500 KVA DG Set	
[d]	Sample Collected by	SHIVA TEST HOUSE on 23.09.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	24.09.16	
	Parameters	Method of Test	Results
	1. Stack Connected to		500 KVA DG Set
	2. Height of Stack (as reported)		3.0 m.
	3. Dia of Stack at Top (as reported)		0.2 m.
	4. Draft		Natural
	5. Material of Construction		M.S.
	6. Ambient Temperature, °C		32.0
	7. Flue Gas Temperature, °C		157.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	6.6
	9. Volumetric Flow Rate, NM ³ /hr.		517.0
	10. Sampling Point		Top of Exhaust
		Concentration (mg / NM³)	Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	38.4 75.0 mg / NM ³
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	67.4 Not Specified
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	171.6 710.0 mg / NM ³
N.B.:	There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust		



[Signature]
08/10/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/16-17/117(a)</i> Dt: <i>17.05.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE AV.O./RS/2016</i> Dt: <i>19.04.2016</i>				
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)		
[b]	Report to be submitted to	Director		
[c]	Details of Sample	Monitoring of Stack Emission of 125 KVA DG Set		
[d]	Sample Collected by	SHIVA TEST HOUSE on 11.04.16		
[e]	No. & Type of Container	Thimble & Glass Impinger		
[f]	Items required to be tested	As per request		
[g]	Whether any specific Method of Test has been suggested by the party	No		
[h]	Date of receiving the sample	12.04.16		
	Parameters	Method of Test	Results	
1.	Stack Connected to		125 KVA DG Set	
2.	Height of Stack (as reported)		2.1 m.	
3.	Dia of Stack at Top (as reported)		0.13 m.	
4.	Draft		Natural	
5.	Material of Construction		M.S.	
6.	Ambient Temperature, °C		33.0	
7.	Flue Gas Temperature, °C		161.0	
8.	Velocity, m/sec.	IS 11255 (Part-3)	7.1	
9.	Volumetric Flow Rate, NM ³ /hr.		232.83	
10.	Sampling Point		Top of Exhaust	
			Concentration (mg / NM³)	
			Limit as per E (P) Rules	
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	37.1	75.0 mg / NM ³
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	61.4	Not Specified
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	156.2	710.0 mg / NM ³
N.B.: There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust				



Hasn0
17/5/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/16-17/148(a)</i> Dt : <i>31.05.2016</i> Your PO No. <i>ECO/BHRSHIVA TEST HOUSE /W.O./RS/2016</i> Dt : <i>19.04.2016</i>				
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)		
[b]	Report to be submitted to	Director		
[c]	Details of Sample	Monitoring of Stack Emission of 125 KVA DG Set		
[d]	Sample Collected by	SHIVA TEST HOUSE on 09.05.16		
[e]	No. & Type of Container	Thimble & Glass Impinger		
[f]	Items required to be tested	As per request		
[g]	Whether any specific Method of Test has been suggested by the party	No		
[h]	Date of receiving the sample	10.05.16		
	Parameters	Method of Test	Results	
	1. Stack Connected to		125 KVA DG Set	
	2. Height of Stack (as reported)		2.1 m.	
	3. Dia of Stack at Top (as reported)		0.13 m.	
	4. Draft		Natural	
	5. Material of Construction		M.S.	
	6. Ambient Temperature, °C		37.0	
	7. Flue Gas Temperature, °C		154.0	
	8. Velocity, m/sec.	IS 11255 (Part-3)	6.5	
	9. Volumetric Flow Rate, NM ³ /hr.		216.7	
	10. Sampling Point		Top of Exhaust	
		Concentration (mg / NM³)	Limit as per E (P) Rules	
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	30.4	75.0 mg / NM ³
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	62.6	Not Specified
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	151.4	710.0 mg / NM ³
N.B.:	There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust			



[Signature]
31/5/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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Laboratory Address :-
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Patna – 800 014 (Bihar)



SHIVA TEST HOUSE

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



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

TEST REPORT

Ref.No. <i>ECL/TR/16-17/210(a)</i> Dt : <i>02.07.2016</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2016</i> Dt : <i>19.04.2016</i>				
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)		
[b]	Report to be submitted to	Director		
[c]	Details of Sample	Monitoring of Stack Emission of 125 KVA DG Set		
[d]	Sample Collected by	SHIVA TEST HOUSE on 14.06.16		
[e]	No. & Type of Container	Thimble & Glass Impinger		
[f]	Items required to be tested	As per request		
[g]	Whether any specific Method of Test has been suggested by the party	No		
[h]	Date of receiving the sample	15.06.16		
	Parameters	Method of Test	Results	
	1. Stack Connected to		125 KVA DG Set	
	2. Height of Stack (as reported)		2.1 m.	
	3. Dia of Stack at Top (as reported)		0.13 m.	
	4. Draft		Natural	
	5. Material of Construction		M.S.	
	6. Ambient Temperature, °C		41.0	
	7. Flue Gas Temperature, °C		158.0	
	8. Velocity, m/sec.	IS 11255 (Part-3)	8.4	
	9. Volumetric Flow Rate, NM ³ /hr.		277.4	
	10. Sampling Point		Top of Exhaust	
		Concentration (mg / NM³)	Limit as per E (P) Rules	
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	32.6	75.0 mg / NM ³
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	58.7	Not Specified
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	177.8	710.0 mg / NM ³
N.B.:	There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust			



Hasan
02/07/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/270(a) Dt: 01.08.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE/W.O./RS/2016 Dt: 19.04.2016

[a] Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)
[b] Report to be submitted to	Director
[c] Details of Sample	Monitoring of Stack Emission of 125 KVA DG Set
[d] Sample Collected by	SHIVA TEST HOUSE on 17.07.16
[e] No. & Type of Container	Thimble & Glass Impinger
[f] Items required to be tested	As per request
[g] Whether any specific Method of Test has been suggested by the party	No
[h] Date of receiving the sample	18.07.16

Parameters	Method of Test	Results	
1. Stack Connected to		125 KVA DG Set	
2. Height of Stack (as reported)		2.1 m.	
3. Dia of Stack at Top (as reported)		0.13 m.	
4. Draft		Natural	
5. Material of Construction		M.S.	
6. Ambient Temperature, °C		38.0	
7. Flue Gas Temperature, °C		162.0	
8. Velocity, m/sec.	IS 11255 (Part-3)	9.1	
9. Volumetric Flow Rate, NM ³ /hr.		297.7	
10. Sampling Point		Top of Exhaust	
		Concentration (mg / NM ³)	Limit as per E (P) Rules
11. Particulate Matter (P.M.)	IS 11255 (Part-1)	43.4	75.0 mg / NM ³
12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	60.7	Not Specified
13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	184.6	710.0 mg / NM ³

N.B.: There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust



Hasn
02/08/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/310(a) Dt : 02.09.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2016 Dt : 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission of 125 KVA DG Set	
[d]	Sample Collected by	SHIVA TEST HOUSE on 12.08.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	13.08.16	
	Parameters	Method of Test	Results
	1. Stack Connected to		125 KVA DG Set
	2. Height of Stack (as reported)		2.1 m.
	3. Dia of Stack at Top (as reported)		0.13 m.
	4. Draft		Natural
	5. Material of Construction		M.S.
	6. Ambient Temperature, °C		35.0
	7. Flue Gas Temperature, °C		156.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	7.8
	9. Volumetric Flow Rate, NM ³ /hr.		258.8
	10. Sampling Point		Top of Exhaust
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	38.9
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	63.6
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	161.7
			75.0 mg / NM ³
			Not Specified
			710.0 mg / NM ³
N.B.: There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust			



[Signature]
02/09/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. ECL/TR/16-17/366(a) Dt : 08.10.2016 Your PO No. ECO/BHR/SHIVA TEST HOUSE/W.O./RS/2016 Dt : 19.04.2016			
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)	
[b]	Report to be submitted to	Director	
[c]	Details of Sample	Monitoring of Stack Emission of 125 KVA DG Set	
[d]	Sample Collected by	SHIVA TEST HOUSE on 23.09.16	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	24.09.16	
	Parameters	Method of Test	Results
	1. Stack Connected to		125 KVA DG Set
	2. Height of Stack (as reported)		2.1 m.
	3. Dia of Stack at Top (as reported)		0.13 m.
	4. Draft		Natural
	5. Material of Construction		M.S.
	6. Ambient Temperature, °C		32.0
	7. Flue Gas Temperature, °C		152.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	6.1
	9. Volumetric Flow Rate, NM ³ /hr.		204.3
	10. Sampling Point		Top of Exhaust
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	33.8
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	57.6
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	148.6
			75.0 mg / NM ³
			Not Specified
			710.0 mg / NM ³
N.B.:	There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust		



[Signature]
08/10/16
Authorized Signatory
Quality Manager / Dy. Quality Manager

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