

DATED : 15.12.2017

To,
The Chairman,
Bihar State Pollution Control Board,
Parivesh Bhavan, N.S.B.-2,
Patliputra Industrial Area, Patliputra,
Patna, Bihar – 800010

Our Ref : ECO/BIHAR/EMR/25062017/12

Sub : Environmental Monitoring Results of M/s. Eco Cements Limited, Bhabhua for the period of APR 2017 TO SEP 2017

Dear Sir,

This refers to above mentioned subject. In this matter, please find attached Environmental Monitoring results of Ambient Air Quality, Ambient Noise Level, Stack Emission and Fugitive Emission of M/s. Eco Cements Limited, Bhabhua for the period of APR 2017 TO SEP 2017

Kindly acknowledge the receipt and oblige.

Thanking you in anticipation,
For Eco Cements Limited


Rajendra Singh, Director
Authorized Sign

Encl.

1. Environmental Monitoring results of M/s. Eco Cements Limited, Bhabhua for the period of APR 2017 TO SEP 2017

Copy to.

1. Ministry of Environment and Forests,
BANGLOW NO. A-2, SHYAMLI CALONY,
RANCHI-834002, JHARKHAND
PH. 0651-2410007, 2410002
2. Scientist 'E' & Incharge,
Central Pollution Control Board,
Southernd Conclave, Block 502, 5TH & 6TH Floors,
1582 Rajdanga Main Road,
Kolkata – 700107 (W.B.)

ECO CEMENTS LTD

Corp. Off.: 72, Jawahar Nagar Extn., Bhelupur, Varansi, U.P.- 221010, PH.- 0542-2277704, 2277074
Factory: Plot No. 1644, Bheriya Road, Kulharia, Durgauti, Bhabhua, Bihar

ECO CEMENTS LTD.



**ENVIRONMENTAL
MONITORING RESULTS
APRIL - SEPTEMBER 2017**

Ambient Air Quality Monitoring Report (All Values in $\mu\text{g}/\text{m}^3$)

Year: 2017 - 2018(APR 2017 TO SEP 2017.)

S. No	Location ---->	Near Main Gate				Near CCR				Near Canteen				Near Gypsum & Clinker Storage			
		Month	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂
1	Apr-17	51.5	40.5	17.1	32.6	68.6	44.2	13.7	17.5	53.2	36.9	14.2	18.8	56.4	44.3	11.7	15.4
2	May-17	83.3	43.5	10.3	26.1	75.2	39.3	8.2	14.0	72.4	37.8	8.5	15.1	74.1	38.7	6.6	9.2
3	Jun-17	62.5	32.7	14.3	22.7	56.4	29.5	9.5	10.6	54.3	28.4	11.6	17.3	55.6	29.1	10.4	16.1
4	Jul-17	55.0	28.8	16.4	19.3	49.7	25.9	10.9	12.2	47.8	24.9	13.4	19.9	48.9	25.6	12.0	18.5
5	Aug-17	56.1	33.3	14.0	18.3	60.5	35.9	9.3	11.6	55.1	32.7	11.4	14.9	66.1	39.2	18.2	17.6
6	Sep-17	62.8	37.2	8.7	13.9	57.5	34.1	7.9	12.9	52.4	31.1	9.7	11.2	53.3	31.6	11.9	17.4
Average		61.87	36.0	13.5	22.15	61.32	34.82	9.917	13.13	55.87	31.97	11.47	16.2	59.07	34.75	11.8	15.7

ECO CEMENTS LTD

 Authorised Signatory/Director

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

Stack Emission Level Monitoring Report for the period APR 2017 TO SEP 2017
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-17	25.6	24.8	25.1	26.5	39.1	44.6	50 mg/Nm ³
2	May-17	28.1	26.8	23.3	24.5	46.3	45.2	
3	Jun-17	26.6	23.9	21.1	26.8	53.4	42.6	
4	Jul-17	23.5	22.3	22.5	25.5	46.1	48.7	
5	Aug-17	25.6	20.2	20.1	27.6	50.3	51.6	
6	Sep-17	22.7	24.1	21.6	22.2	43.8	46.3	
Average Values		25.4	23.7	22.3	25.5	46.5	46.5	


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Corp. Off.: 72, Jawahar Nagar Extn., Bhelupur, Varansi, U.P.- 221010, PH.- 0542-2277704, 2277074
 Factory: Plot No. 1644, Bheriya Road, Kulharia, Durgauti, Bhabhua, Bihar

Ambient Noise level Monitoring Report From APR 2017 TO SEP 2017 dB(A) TIME WEIGHTED AVERAGE (TWA) OF NOISE LEVEL IN dB(A)							
S. No.	Location ---->	Plant boundary near Main gate	Plant boundary near CCR	Plant boundary near Canteen	Plant boundary near Gypsum storage	Plant boundary near clinker storage	Prescribed Standard Limit (dB(A)
1	Apr-17	72.1	69.2	70.9	65.2	67.3	75dB(A) in day & 70 dB(A) in night
2	May-17	68.9	70.8	66.4	64.2	68.3	
3	Jun-17	73.2	72.3	69.7	63.3	64.4	
4	Jul-17	70.5	69.5	64.8	68.6	66.1	
5	Aug-17	69.4	71.6	67.1	64.9	65.1	
6	Sep-17	71.6	68.3	66.8	65.5	67.1	
Average Values		71.0	70.3	67.6	65.3	66.4	

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Fugitive Dust Emission Level Monitoring Report for the period APR 2017 TO SEP 2017

Concentration of Total Dust (All Values in mg/m ³)						
Sl.No.	Month	Mill Section Ground Floor	Mill Section 1st Floor	Mill Section 2nd Floor	South Side of Mill Section	North side of Mill Section
1	Apr-17	5.91	7.81	6.46	7.22	5.53
2	May-17	6.75	5.15	7.39	6.68	5.99
3	Jun-17	6.11	7.38	5.74	6.48	7.82
4	Jul-17	7.17	5.87	6.94	5.62	7.31
5	Aug-17	6.24	5.20	5.65	7.21	6.47
6	Sep-17	6.89	7.72	5.43	6.12	7.59
Average		6.51	6.52	6.27	6.56	6.79

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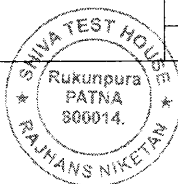
SHIVA TEST HOUSE

Tel : 0612 - 2247638 / 2240762 / 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/17-18/70(g)</i> Dt : <i>27.04.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	Monitoring of Ambient Air Quality				
[d]	Sample Collected by	SHIVA TEST HOUSE on <i>16/17.04.17</i>				
[e]	No. & Type of Container	Filter Paper ; Glass Impinger				
[f]	Items required to be tested	As per request				
[g]	Whether any specific Method of Test has been suggested by the party	No				
[h]	Date of receiving the sample	<i>17.04.17</i>				
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)	45.1	82.3	53.2	52.8	100 µg / m ³
		55.2	60.4	47.4	57.7	
		54.2	63.0	59.0	58.6	
2. Particulate Matter (PM _{2.5}), µg / m ³	CPCB	41.0	33.3	36.4	42.8	60 µg / m ³
		38.4	43.6	43.5	36.9	
		41.9	55.6	30.9	53.3	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	14.9	13.6	15.7	12.4	80 µg / m ³
		14.0	15.7	14.7	11.4	
		19.8	14.1	12.7	12.1	
		19.7	13.5	13.1	11.9	
		18.2	13.2	15.2	10.3	
		16.2	12.1	13.9	12.2	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	30.9	15.2	17.6	12.6	80 µg / m ³
		29.8	14.2	16.3	14.7	
		39.0	25.7	21.4	15.1	
		25.7	17.3	19.0	20.2	
		32.7	16.5	18.0	15.6	
		37.4	16.0	20.6	14.1	
24 Hrs. Average Value						
	PM ₁₀	51.5	68.6	53.2	56.4	
	PM _{2.5}	40.4	44.2	36.9	44.3	
	SO ₂	17.1	13.7	14.2	11.7	
	NO ₂	32.6	17.5	18.8	15.4	



[Signature]
 Authorized Signatory
 Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/17-18/127(g)</i> Dt : <i>22.05.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	Monitoring of Ambient Air Quality				
[d]	Sample Collected by	SHIVA TEST HOUSE on <i>10/11.05.17</i>				
[e]	No. & Type of Container	Filter Paper ; Glass Impinger				
[f]	Items required to be tested	As per request				
[g]	Whether any specific Method of Test has been suggested by the party	No				
[h]	Date of receiving the sample	<i>11.05.17</i>				
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)	96.8	87.5	70.8	81.5	100 µg / m ³
		81.3	67.6	80.2	75.2	
		71.9	70.6	66.1	65.6	
2. Particulate Matter (PM _{2.5}), µg / m ³	CPCB	50.6	45.7	37.0	42.6	60 µg / m ³
		42.5	35.3	41.9	39.3	
		37.6	36.9	34.5	34.3	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	8.9	8.2	9.4	6.9	80 µg / m ³
		8.4	9.4	8.8	8.2	
		11.9	8.5	7.6	7.3	
		11.8	8.1	7.9	6.1	
		10.9	7.9	9.1	5.9	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	24.7	12.2	14.1	7.6	80 µg / m ³
		23.8	11.4	13.0	8.8	
		31.2	20.6	17.1	9.1	
		20.6	13.8	15.2	12.1	
		26.2	13.2	14.4	9.4	
		29.9	12.8	16.5	8.5	
24 Hrs. Average Value						
	PM ₁₀	83.3	75.2	72.4	74.1	
	PM _{2.5}	43.5	39.3	37.8	38.7	
	SO ₂	10.3	8.2	8.5	6.6	
	NO ₂	26.1	14.0	15.1	9.2	



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Quality Manager / Dy. Quality Manager

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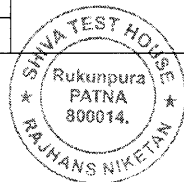


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TEST REPORT

Ref.No. <i>ECL/TR/17-18/158(g)</i> Dt : <i>20.06.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</i>						
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)				
[b]	Report to be submitted to	Director				
[c]	Details of Sample	Monitoring of Ambient Air Quality				
[d]	Sample Collected by	SHIVA TEST HOUSE on <i>04/05.06.17</i>				
[e]	No. & Type of Container	Filter Paper ; Glass Impinger				
[f]	Items required to be tested	As per request				
[g]	Whether any specific Method of Test has been suggested by the party	No				
[h]	Date of receiving the sample	<i>05.06.17</i>				
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)	72.6	65.6	53.1	61.1	100 µg / m ³
		61.0	50.7	60.2	56.4	
		53.9	53.0	49.6	49.2	
2. Particulate Matter (PM _{2.5}), µg / m ³	CPCB	38.0	34.3	27.8	32.0	60 µg / m ³
		31.9	26.5	31.4	29.5	
		28.2	27.7	25.9	25.7	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	18.9	10.8	15.4	9.4	80 µg / m ³
		15.2	9.4	11.7	10.8	
		14.5	8.4	13.6	12.2	
		13.6	7.6	10.7	11.7	
		12.5	9.0	9.9	10.0	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	21.0	8.7	16.2	14.0	80 µg / m ³
		25.0	10.1	15.0	13.1	
		23.9	10.5	19.7	23.7	
		18.4	13.9	17.5	15.9	
		22.3	10.8	16.6	15.2	
25.4	9.8	19.0	14.7			
24 Hrs. Average Value						
	PM ₁₀	62.5	56.4	54.3	55.6	
	PM _{2.5}	32.7	29.5	28.4	29.1	
	SO ₂	14.3	9.5	11.6	10.4	
	NO ₂	22.7	10.6	17.3	16.1	



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Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/17-18/202(g)</i> Dt : <i>14.07.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	Monitoring of Ambient Air Quality				
[d]	Sample Collected by	SHIVA TEST HOUSE on <i>08/09.07.17</i>				
[e]	No. & Type of Container	Filter Paper ; Glass Impinger				
[f]	Items required to be tested	As per request				
[g]	Whether any specific Method of Test has been suggested by the party	No				
[h]	Date of receiving the sample	<i>09.07.17</i>				
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)	63.9	57.8	46.7	53.8	100 µg / m ³
		53.7	44.6	52.9	49.6	
		47.5	46.6	43.6	43.3	
2. Particulate Matter (PM _{2.5}), µg / m ³	CPCB	33.4	30.2	24.4	28.1	60 µg / m ³
		28.1	23.3	27.7	25.9	
		24.8	24.4	22.8	22.6	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	21.7	12.4	17.7	10.8	80 µg / m ³
		17.5	10.8	13.5	12.4	
		16.7	9.7	15.6	14.0	
		15.6	8.7	12.3	13.5	
		14.4	10.3	11.4	11.5	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	17.8	10.1	18.6	16.1	80 µg / m ³
		21.2	11.6	17.2	15.1	
		20.3	12.0	22.6	27.2	
		15.7	16.0	20.1	18.3	
		18.9	12.4	19.0	17.5	
24 Hrs. Average Value						
	PM ₁₀	55.0	49.7	47.8	48.9	
	PM _{2.5}	28.8	25.9	24.9	25.6	
	SO ₂	16.4	10.9	13.4	12.0	
	NO ₂	19.3	12.2	19.9	18.5	



[Signature]

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Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/17-18/285(g)</i> Dt : <i>01.09.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	Monitoring of Ambient Air Quality				
[d]	Sample Collected by	SHIVA TEST HOUSE on <i>22/23.08.17</i>				
[e]	No. & Type of Container	Filter Paper ; Glass Impinger				
[f]	Items required to be tested	As per request				
[g]	Whether any specific Method of Test has been suggested by the party	No				
[h]	Date of receiving the sample	<i>23.08.17</i>				
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)	52.9	50.0	51.9	72.7	100 µg / m ³
		59.8	66.8	54.5	65.0	
		55.7	64.7	59.0	60.5	
2. Particulate Matter (PM _{2.5}), µg / m ³	CPCB	31.4	29.6	30.8	43.1	60 µg / m ³
		35.5	39.6	32.3	38.6	
		33.0	38.4	35.0	35.9	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	18.4	10.6	15.1	9.2	80 µg / m ³
		14.8	9.2	11.5	10.6	
		14.2	8.2	13.3	11.9	
		13.3	7.4	10.5	11.5	
		12.3	8.8	9.7	9.8	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	17.0	9.5	14.0	15.3	80 µg / m ³
		20.2	11.1	12.9	14.3	
		19.3	11.4	17.0	25.9	
		14.9	15.2	15.1	17.3	
		18.0	11.8	14.3	16.6	
20.5	10.7	16.4	16.1			
24 Hrs. Average Value						
	PM ₁₀		56.1	60.5	55.1	66.1
	PM _{2.5}		33.3	35.9	32.7	39.2
	SO ₂		14.0	9.3	11.4	10.2
	NO ₂		18.3	11.6	14.9	17.6



[Signature]

Authorized Signatory

Quality Manager / Dy. Quality Manager

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SHIVA TEST HOUSE

Tel. : 0612 - 2247838; 2240752 ; TeleFax : 0612 - 2590705
E.mail. : sthpatna1@yahoo.co.in

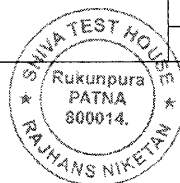


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TEST REPORT

Ref.No. <i>ECL/TR/17-18/333(g)</i> Dt : <i>03.10.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</i>						
[a]	Name and address of the Customer	ECO Cement Ltd. Vill.: Mahmoodganj At : Kulharia Durgawati Dist.: Bhabua (Kaimur)				
[b]	Report to be submitted to	Director				
[c]	Details of Sample	Monitoring of Ambient Air Quality				
[d]	Sample Collected by	SHIVA TEST HOUSE on 18/19.09.17				
[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	19.09.17				
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)	69.1	47.5	49.3	50.3	100 µg / m ³
		61.8	63.4	51.8	56.8	
		57.5	61.5	56.1	52.9	
2. Particulate Matter (PM _{2.5}), µg / m ³	CPCB	40.9	28.1	29.3	29.8	60 µg / m ³
		36.6	37.6	30.7	33.7	
		34.1	36.5	33.3	31.4	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	7.8	9.0	12.8	15.7	80 µg / m ³
		9.0	7.8	9.7	12.6	
		10.1	7.0	11.3	12.0	
		9.7	6.3	8.9	11.3	
		8.3	7.5	8.2	10.4	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	21.0	15.6	10.5	16.1	80 µg / m ³
		16.0	13.9	9.7	19.2	
		13.9	12.2	12.7	18.3	
		12.2	14.4	11.3	14.1	
		10.8	11.2	10.7	17.1	
		9.7	10.1	12.3	19.5	
24 Hrs. Average Value						
	PM ₁₀		62.8	57.5	52.4	53.3
	PM _{2.5}		37.2	34.1	31.1	31.6
	SO ₂		8.7	7.9	9.7	11.9
	NO ₂		13.9	12.9	11.2	17.4



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SHIVA TEST HOUSE

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TEST REPORT

Ref.No. <i>ECL/TR/17-18/70(i)</i> Dt : <i>27.04.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 Ambient Noise Level</i>
[d] Monitored by	SHIVA TEST HOUSE on <i>16.04.17</i>
[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	72.1
2. Near CCR	69.2
3. Near Canteen	70.9
4. Near Gypsum Storage Area	65.2
5. Near Clinker Storage Area	67.3
N.B.:	<i>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.</i>



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/127(i)</i> Dt : <i>22.05.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 Ambient Noise Level</i>
[d] Monitored by	SHIVA TEST HOUSE on <i>10.05.17</i>
[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	68.9
2. Near CCR	70.8
3. Near Canteen	66.4
4. Near Gypsum Storage Area	64.2
5. Near Clinker Storage Area	68.3
N.B.:	<i>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.</i>



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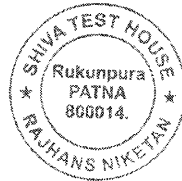


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TEST REPORT

Ref.No. <i>ECL/TR/17-18/158(i)</i> Dt : <i>20.06.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 Ambient Noise Level</i>
[d] Monitored by	SHIVA TEST HOUSE on <i>04.06.17</i>
[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	73.2
2. Near CCR	72.3
3. Near Canteen	69.7
4. Near Gypsum Storage Area	63.3
5. Near Clinker Storage Area	64.4
N.B.:	<i>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.</i>



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/202(i)</i> Dt : <i>14.07.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 Ambient Noise Level</i>
[d] Monitored by	SHIVA TEST HOUSE on <i>08.07.17</i>
[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	70.5
2. Near CCR	69.5
3. Near Canteen	64.8
4. Near Gypsum Storage Area	68.6
5. Near Clinker Storage Area	66.1
N.B.:	<i>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.</i>



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/285(i)</i> Dt : <i>01.09.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 Ambient Noise Level</i>
[d] Monitored by	SHIVA TEST HOUSE on <i>22.08.17</i>
[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	71.6
3. Near Canteen	67.1
4. Near Gypsum Storage Area	64.9
5. Near Clinker Storage Area	65.1
N.B.:	<i>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</i>



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/333(i)</i> Dt : <i>03.10.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 Ambient Noise Level</i>
[d] Monitored by	SHIVA TEST HOUSE on <i>18.09.17</i>
[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	71.6
2. Near CCR	68.3
3. Near Canteen	66.8
4. Near Gypsum Storage Area	65.5
5. Near Clinker Storage Area	67.1
N.B.:	<i>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.</i>



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/70(h)</i> Dt : <i>27.04.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 16.04.17		
[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		17.04.17		
S. N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc ⁿ *	Concentration of Respirable Dust	Permissible TWA Conc ⁿ *
		(mg/M ³)	(mg/M ³)	(mg/M ³)	(mg/M ³)
1	Mill Section Ground Floor	5.91	10.00	3.58	5.00
2	Mill Section 01 st Floor	7.81	10.00	4.11	5.00
3	Mill Section 02 nd Floor	6.46	10.00	1.94	5.00
4	South side of Mill Section	7.22	10.00	2.83	5.00
5	North side of Mill Section	5.53	10.00	1.85	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. <i>ECL/TR/17-18/127(h)</i> Dt : <i>22.05.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 Fugitive Emissions in Work Zone Area</i>		
[d]	Monitored by		SHIVA TEST HOUSE on <i>10.05.17</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>11.05.17</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	6.75	10.00	3.72	5.00
2	Mill Section 01 st Floor	5.15	10.00	4.22	5.00
3	Mill Section 02 nd Floor	7.39	10.00	2.89	5.00
4	South side of Mill Section	6.68	10.00	4.14	5.00
5	North side of Mill Section	5.99	10.00	3.65	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

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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		<i>Director</i>		
[c]	Details of Sample		<i>Monitoring of Fugitive Emissions in Work Zone Area</i>		
[d]	Monitored by		SHIVA TEST HOUSE on <i>04.06.17</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>05.06.17</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	6.11	10.00	1.99	5.00
2	Mill Section 01 st Floor	7.38	10.00	2.77	5.00
3	Mill Section 02 nd Floor	5.74	10.00	2.97	5.00
4	South side of Mill Section	6.48	10.00	1.86	5.00
5	North side of Mill Section	7.82	10.00	3.55	5.00
*Permissible Time Weighted Average (TWA) Conc ⁿ based on Silica Content as per Factories Act'1948 Second Schedule					



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SHIVA TEST HOUSE

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TEST REPORT

Ref.No. <i>ECL/TR/17-18/202(h)</i> Dt : <i>14.07.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 Fugitive Emissions in Work Zone Area</i>		
[d]	Monitored by		SHIVA TEST HOUSE on <i>08.07.17</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>09.07.17</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	7.17	10.00	4.13	5.00
2	Mill Section 01 st Floor	5.87	10.00	1.79	5.00
3	Mill Section 02 nd Floor	6.94	10.00	3.3	5.00
4	South side of Mill Section	5.62	10.00	4.17	5.00
5	North side of Mill Section	7.31	10.00	2.48	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. <i>ECL/TR/17-18/285(h)</i> Dt : <i>01.09.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 Fugitive Emissions in Work Zone Area</i>		
[d]	Monitored by		SHIVA TEST HOUSE on <i>22.08.17</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>23.08.17</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	6.24	10.00	3.54	5.00
2	Mill Section 01 st Floor	5.2	10.00	4.21	5.00
3	Mill Section 02 nd Floor	5.65	10.00	2.15	5.00
4	South side of Mill Section	7.21	10.00	1.31	5.00
5	North side of Mill Section	6.47	10.00	2.69	5.00
*Permissible Time Weighted Average (TWA) Conc ⁿ based on Silica Content as per Factories Act ⁿ 1948 Second Schedule					



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/333(h)</i> Dt : <i>03.10.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 18.09.17		
[e]	No. and Type of Container		Filter Paper		
[f]	Items required to be tested		As per request		
[g]	Whether any specific Method of Test has been suggested by the party		No		
[h]	Date of receiving the sample		19.09.17		
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	6.89	10.00	3.68	5.00
2	Mill Section 01 st Floor	7.72	10.00	4.1	5.00
3	Mill Section 02 nd Floor	5.43	10.00	1.87	5.00
4	South side of Mill Section	6.12	10.00	3.36	5.00
5	North side of Mill Section	7.59	10.00	1.8	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. <i>ECL/TR/17-18/70(f)</i> Dt : <i>27.04.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 16.04.17	
[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	17.04.17	
	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		30.0
	7. Flue Gas Temperature, °C		46.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	8.3
	9. Volumetric Flow Rate, NM ³ /hr.		31552.8
	10. Sampling Point		21 m.
			<i>Concentration (mg / NM³)</i>
			<i>Limit as per E (P) Rules</i>
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	25.6 30.0 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



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/127(f)</i> Dt : <i>22.05.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>10.05.17</i>			
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>			
[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>11.05.17</i>			
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			49.0	
8.	Velocity, m/sec.	IS 11255 (Part-3)		9.6	
9.	Volumetric Flow Rate, NM ³ /hr.			36154.8	
10.	Sampling Point			21 m.	
				Concentration (mg / NM ³)	Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)		28.1	30.0 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)		12.2	Not Specified



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/158(f)</i> Dt : <i>20.06.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>04.06.17</i>			
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>			
[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>05.06.17</i>			
<i>Parameters</i>		<i>Method of Test</i>		<i>Results</i>	
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			43.0	
7.	Flue Gas Temperature, °C			52.0	
8.	Velocity, m/sec.	IS 11255 (Part-3)		8.1	
9.	Volumetric Flow Rate, NM ³ /hr.			30224.0	
10.	Sampling Point			21 m.	
				<i>Concentration</i> <i>(mg / NM³)</i>	<i>Limit as per E (P) Rules</i>
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)		26.6	<i>30.0 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)		10.1	<i>Not Specified</i>



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/202(f)</i> Dt : <i>14.07.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>08.07.17</i>			
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>			
[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>09.07.17</i>			
<i>Parameters</i>		<i>Method of Test</i>		<i>Results</i>	
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			50.0	
8.	Velocity, m/sec.	IS 11255 (Part-3)		7.3	
9.	Volumetric Flow Rate, NM ³ /hr.			27407.6	
10.	Sampling Point			21 m.	
				<i>Concentration</i> <i>(mg / NM³)</i>	<i>Limit as per E (P) Rules</i>
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)		23.5	<i>30.0 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)		8.4	<i>Not Specified</i>



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/285(f)</i> Dt : <i>01.09.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>22.08.17</i>		
[e] No. & Type of Container	<i>Thimble & Glass Impinger</i>		
[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>23.08.17</i>		
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		48.0	
8. Velocity, m/sec.	IS 11255 (Part-3)	9.6	
9. Volumetric Flow Rate, NM ³ /hr.		36267.4	
10. Sampling Point		21 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules
11. Particulate Matter (P.M.)	IS 11255 (Part-1)	25.6	<i>30.0 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)	11.6	<i>Not Specified</i>



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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	<i>Director</i>	
[c]	Details of Sample	<i>Monitoring of Stack Emission</i>	
[d]	Sample Collected by	SHIVA TEST HOUSE on <i>18.09.17</i>	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	<i>19.09.17</i>	
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		33.0
7.	Flue Gas Temperature, °C		45.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	6.5
9.	Volumetric Flow Rate, NM ³ /hr.		24787.7
10.	Sampling Point		21 m.
		Concentration (mg / NM ³)	Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	22.7 30.0 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)	7.8 Not Specified




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TEST REPORT

Ref.No. <i>ECL/TR/17-18/70(e)</i> Dt : <i>27.04.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 16.04.17	
[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	17.04.17	
	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		36.0
	7. Flue Gas Temperature, °C		52.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	7.6
	9. Volumetric Flow Rate, NM ³ /hr.		21711.8
	10. Sampling Point		14 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	24.8 30.0 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)	10.2 Not Specified



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/127(e)</i> Dt : <i>22.05.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>10.05.17</i>	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[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>11.05.17</i>	
<i>Parameters</i>		<i>Method of Test</i>	<i>Results</i>
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		40.0
7.	Flue Gas Temperature, °C		53.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	8.9
9.	Volumetric Flow Rate, NM ³ /hr.		25193.1
10.	Sampling Point		14 m.
		<i>Concentration (mg / NM³)</i>	<i>Limit as per E (P) Rules</i>
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	26.8 <i>30.0 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)	8.7 <i>Not Specified</i>



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/158(e)</i> Dt : <i>20.06.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE/W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>04.06.17</i>	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[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>05.06.17</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		43.0
	7. Flue Gas Temperature, °C		56.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	7.3
	9. Volumetric Flow Rate, NM ³ /hr.		20601.2
	10. Sampling Point		14 m.
			Concentration (mg / NM ³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	23.9 30.0 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)	11.3 Not Specified



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/202(e)</i> Dt : <i>14.07.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>08.07.17</i>	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[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>09.07.17</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		39.0
7.	Flue Gas Temperature, °C		51.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	6.8
9.	Volumetric Flow Rate, NM ³ /hr.		19486.3
10.	Sampling Point		14 m.
		Concentration (mg / NM³)	Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	22.3 30.0 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)	13.7 Not Specified



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/285(e)</i> Dt : <i>01.09.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 22.08.17	
[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	23.08.17	
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		36.0
7.	Flue Gas Temperature, °C		50.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	6.3
9.	Volumetric Flow Rate, NM ³ /hr.		18109.4
10.	Sampling Point		14 m.
		Concentration (mg / NM³)	Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	20.2 30.0 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)	10.2 Not Specified



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/333(e)</i> Dt : <i>03.10.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>18.09.17</i>	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	<i>19.09.17</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		33.0
	7. Flue Gas Temperature, °C		46.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	7.2
	9. Volumetric Flow Rate, NM ³ /hr.		20956.0
	10. Sampling Point		14 m.
			<i>Concentration (mg / NM³)</i>
			<i>Limit as per E (P) Rules</i>
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	24.1 30.0 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)	9.1 Not Specified



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/70(c)</i> Dt : <i>27.04.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>16.04.17</i>		
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>		
[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>17.04.17</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		36.0	
7.	Flue Gas Temperature, °C		51.0	
8.	Velocity, m/sec.		IS 11255 (Part-3)	8.3
9.	Volumetric Flow Rate, NM ³ /hr.			12135.1
10.	Sampling Point			11 m.
		Concentration (mg / NM³)	Limit as per E (P) Rules	
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	25.1 30.0 mg / NM ³	
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)	14.3 <i>Not Specified</i>	



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Ref.No. <i>ECL/TR/17-18/127(c)</i> Dt : <i>22.05.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>10.05.17</i>			
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>			
[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>11.05.17</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			40.0	
7.	Flue Gas Temperature, °C			53.0	
8.	Velocity, m/sec.	IS 11255 (Part-3)	7.8		
9.	Volumetric Flow Rate, NM ³ /hr.			11334.2	
10.	Sampling Point			11 m.	
				Concentration (mg / NM ³)	Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	23.3		30.0 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)	10.8		Not Specified



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Ref.No. <i>ECL/TR/17-18/158(c)</i> Dt : <i>20.06.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>04.06.17</i>			
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>			
[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>05.06.17</i>			
<i>Parameters</i>		<i>Method of Test</i>		<i>Results</i>	
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			43.0	
7.	Flue Gas Temperature, °C			56.0	
8.	Velocity, m/sec.			6.8	
9.	Volumetric Flow Rate, NM ³ /hr.			9790.9	
10.	Sampling Point			11 m.	
				<i>Concentration (mg / NM³)</i>	<i>Limit as per E (P) Rules</i>
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	21.1	30.0 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)	8.4	Not Specified	



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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	<i>Director</i>			
[c]	Details of Sample	<i>Monitoring of Stack Emission</i>			
[d]	Sample Collected by	SHIVA TEST HOUSE on <i>08.07.17</i>			
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>			
[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>09.07.17</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			39.0	
7.	Flue Gas Temperature, °C			52.0	
8.	Velocity, m/sec.	IS 11255 (Part-3)		7.1	
9.	Volumetric Flow Rate, NM ³ /hr.			10348.8	
10.	Sampling Point			11 m.	
				<i>Concentration (mg / NM³)</i>	<i>Limit as per E (P) Rules</i>
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)		22.5	30.0 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)		11.6	Not Specified



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/285(c)</i> Dt : <i>01.09.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE/W.O./RS 2017</i> Dt : <i>10.04.17</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 22.08.17	
[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	23.08.17	
	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		36.0
7.	Flue Gas Temperature, °C		49.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	6.4
9.	Volumetric Flow Rate, NM ³ /hr.		9415.3
10.	Sampling Point		11 m.
			<i>Concentration (mg / NM³)</i>
			<i>Limit as per E (P) Rules</i>
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	20.1 30.0 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)	9.2 Not Specified



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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	<i>Director</i>	
[c]	Details of Sample	<i>Monitoring of Stack Emission</i>	
[d]	Sample Collected by	SHIVA TEST HOUSE on <i>18.09.17</i>	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	<i>19.09.17</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		45.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	6.6
	9. Volumetric Flow Rate, NM ³ /hr.		9831.6
	10. Sampling Point		11 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	21.6 30.0 mg / NM ³
	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)	12.1 <i>Not Specified</i>



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/70(d)</i> Dt : <i>27.04.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>16.04.17</i>	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[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>17.04.17</i>	
	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		36.0
7.	Flue Gas Temperature, °C		48.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	7.2
9.	Volumetric Flow Rate, NM ³ /hr.		6800.1
10.	Sampling Point		9 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	26.5 30.0 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



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/127(d)</i> Dt : <i>22.05.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>10.05.17</i>	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[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>11.05.17</i>	
<i>Parameters</i>		<i>Method of Test</i>	
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	40.0	
7.	Flue Gas Temperature, °C	50.0	
8.	Velocity, m/sec.	IS 11255 (Part-3)	6.4
9.	Volumetric Flow Rate, NM ³ /hr.	6007.1	
10.	Sampling Point	9 m.	
		<i>Concentration (mg / NM³)</i>	<i>Limit as per E (P) Rules</i>
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	24.5 30.0 mg / NM ³
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)	11.8 <i>Not Specified</i>



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/158(d)</i> Dt : <i>20.06.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>04.06.17</i>	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[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>05.06.17</i>	
<i>Parameters</i>		<i>Method of Test</i>	<i>Results</i>
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		43.0
7.	Flue Gas Temperature, °C		52.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	7.9
9.	Volumetric Flow Rate, NM ³ /hr.		7369.4
10.	Sampling Point		9 m.
		<i>Concentration (mg / NM³)</i>	<i>Limit as per E (P) Rules</i>
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	26.8 30.0 mg / NM ³
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)	10.2 <i>Not Specified</i>



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Ref.No. <i>ECL/TR/17-18/202(d)</i> Dt : <i>14.07.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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	SHIVA TEST HOUSE on <i>08.07.17</i>			
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>			
[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>09.07.17</i>			
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			39.0	
7.	Flue Gas Temperature, °C			49.0	
8.	Velocity, m/sec.	IS 11255 (Part-3)	6.2		
9.	Volumetric Flow Rate, NM ³ /hr.			5837.4	
10.	Sampling Point			9 m.	
				Concentration (mg / NM ³)	Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	25.5		30.0 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)	9.8		Not Specified



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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 22.08.17		
[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	23.08.17		
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		36.0	
7.	Flue Gas Temperature, °C		51.0	
8.	Velocity, m/sec.		IS 11255 (Part-3)	7.1
9.	Volumetric Flow Rate, NM ³ /hr.			6643.6
10.	Sampling Point			9 m.
		Concentration (mg / NM³)	Limit as per E (P) Rules	
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	27.6 30.0 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)	12.4 Not Specified	



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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	<i>Director</i>	
[c]	Details of Sample	<i>Monitoring of Stack Emission</i>	
[d]	Sample Collected by	SHIVA TEST HOUSE on <i>18.09.17</i>	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	<i>19.09.17</i>	
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		49.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	5.8
9.	Volumetric Flow Rate, NM ³ /hr.		5460.8
10.	Sampling Point		9 m.
			Concentration (mg / NM³)
			Limit as per E (P) Rules
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	22.2 30.0 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)	8.4 Not Specified



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/70(b)</i> Dt : <i>27.04.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE/W.O./RS/2017</i> Dt : <i>10.04.17</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 of 500 KVA DG Set</i>	
[d]	Sample Collected by	SHIVA TEST HOUSE on <i>16.04.17</i>	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[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>17.04.17</i>	
Parameters		Method of Test	Results
1.	Stack Connected to		500 KVA DG Set
2.	Height of Stack (as reported)		3.0 m.
3.	Dia of Stack at Top (as reported)		0.2 m.
4.	Draft		Natural
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		36.0
7.	Flue Gas Temperature, °C		218.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	7.3
9.	Volumetric Flow Rate, NM ³ /hr.		500.8
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)	44.6 <i>75.0 mg / NM³</i>
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	70.2 <i>Not Specified</i>
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	214.3 <i>710.0 mg / NM³</i>
N.B.: <i>There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust</i>			



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Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/17-18/127(b)</i> Dt : 22.05.2017 Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : 10.04.17			
[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 10.05.17	
[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	11.05.17	
	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		40.0
	7. Flue Gas Temperature, °C		210.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	8.8
	9. Volumetric Flow Rate, NM ³ /hr.		613.7
	10. Sampling Point		Top of Exhaust
		Concentration (mg / NM³)	Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	46.3 75.0 mg / NM ³
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	72.7 Not Specified
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	226.1 710.0 mg / NM ³
N.B.:	There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust		



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/158(b)</i> Dt : <i>20.06.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 of 500 KVA DG Set</i>				
[d]	Sample Collected by	SHIVA TEST HOUSE on 04.06.17				
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>				
[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>05.06.17</i>				
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			43.0		
7.	Flue Gas Temperature, °C			236.0		
8.	Velocity, m/sec.			IS 11255 (Part-3)	10.8	
9.	Volumetric Flow Rate, NM ³ /hr.				714.7	
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)	53.4	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)	232.8	710.0 mg / NM ³		
N.B.:				<i>There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust</i>		



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/202(b)</i> Dt : <i>14.07.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 08.07.17	
[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	09.07.17	
	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		39.0
	7. Flue Gas Temperature, °C		224.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	8.2
	9. Volumetric Flow Rate, NM ³ /hr.		555.7
	10. Sampling Point		Top of Exhaust
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	46.1
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	71.9
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	220.6
			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		



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/285(b)</i> Dt : <i>01.09.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 of 500 KVA DG Set</i>	
[d]	Sample Collected by	SHIVA TEST HOUSE on <i>22.08.17</i>	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[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>23.08.17</i>	
	Parameters	Method of Test	Results
	1. Stack Connected to		500 KVA DG Set
	2. Height of Stack (as reported)		3.0 m.
	3. Dia of Stack at Top (as reported)		0.2 m.
	4. Draft		Natural
	5. Material of Construction		M.S.
	6. Ambient Temperature, °C		36.0
	7. Flue Gas Temperature, °C		240.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	9.4
	9. Volumetric Flow Rate, NM ³ /hr.		617.2
	10. Sampling Point		Top of Exhaust
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	50.3
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	73.6
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	228.7
			75.0 mg / NM ³
			Not Specified
			710.0 mg / NM ³
N.B.:	<i>There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust</i>		



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/333(b)</i> Dt: <i>03.10.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt: <i>10.04.17</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 of 500 KVA DG Set</i>	
[d]	Sample Collected by	SHIVA TEST HOUSE on <i>18.09.17</i>	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	<i>19.09.17</i>	
	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		218.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	7.6
	9. Volumetric Flow Rate, NM ³ /hr.		521.4
	10. Sampling Point		Top of Exhaust
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	43.8
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	68.1
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	213.4
	N.B.: <i>There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust</i>		



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Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/17-18/70(a)</i> Dt : <i>27.04.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 16.04.17	
[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	17.04.17	
	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		36.0
	7. Flue Gas Temperature, °C		210.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	6.8
	9. Volumetric Flow Rate, NM ³ /hr.		200.3
	10. Sampling Point		Top of Exhaust
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	39.1 75.0 mg / NM ³
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	69.1 Not Specified
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	206.7 710.0 mg / NM ³
N.B.:	There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust		



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/127(a)</i> Dt : <i>22.05.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 10.05.17	
[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	11.05.17	
	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		40.0
	7. Flue Gas Temperature, °C		194.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	9.6
	9. Volumetric Flow Rate, NM ³ /hr.		292.5
	10. Sampling Point		Top of Exhaust
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	45.2 / 75.0 mg / NM ³
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	76.1 / Not Specified
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	218.4 / 710.0 mg / NM ³
N.B.:	There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust		



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/158(a)</i> Dt : <i>20.06.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 of 125 KVA DG Set</i>		
[d] Sample Collected by	SHIVA TEST HOUSE on <i>04.06.17</i>		
[e] No. & Type of Container	<i>Thimble & Glass Impinger</i>		
[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>05.06.17</i>		
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		43.0	
7. Flue Gas Temperature, °C		222.0	
8. Velocity, m/sec.	IS 11255 (Part-3)	8.7	
9. Volumetric Flow Rate, NM ³ /hr.		250.1	
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)	42.6	75.0 mg / NM ³
12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	70.4	Not Specified
13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	210.2	710.0 mg / NM ³
N.B.:	<i>There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust</i>		



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TEST REPORT

Ref.No. <i>ECL/TR/17-18/202(a)</i> Dt : <i>14.07.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 of 125 KVA DG Set</i>				
[d] Sample Collected by	<i>SHIVA TEST HOUSE on 08.07.17</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>09.07.17</i>				
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				39.0	
7. Flue Gas Temperature, °C				216.0	
8. Velocity, m/sec.		IS 11255 (Part-3)		9.4	
9. Volumetric Flow Rate, NM ³ /hr.				273.5	
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)			48.7	75.0 mg / NM ³
12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)			66.8	Not Specified
13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)			194.3	710.0 mg / NM ³
N.B.:	<i>There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust</i>				



Authorized Signatory,
Quality Manager / Dy. Quality Manager

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SHIVA TEST HOUSE

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

ISO 18001:2007



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

TEST REPORT

Ref.No. <i>ECL/TR/17-18/285(a)</i> Dt : <i>01.09.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 22.08.17	
[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	23.08.17	
	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		36.0
	7. Flue Gas Temperature, °C		224.0
	8. Velocity, m/sec.	IS 11255 (Part-3)	10.2
	9. Volumetric Flow Rate, NM ³ /hr.		292.0
	10. Sampling Point		Top of Exhaust
			Concentration (mg / NM³)
			Limit as per E (P) Rules
	11. Particulate Matter (P.M.)	IS 11255 (Part-1)	51.6
	12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	69.4
	13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	204.6
	N.B.: There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust		



[Signature]

Authorized Signatory

Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref.No. <i>ECL/TR/17-18/333(a)</i> Dt : <i>03.10.2017</i> Your PO No. <i>ECO/BHR/SHIVA TEST HOUSE /W.O./RS/2017</i> Dt : <i>10.04.17</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 of 125 KVA DG Set</i>		
[d] Sample Collected by	<i>SHIVA TEST HOUSE on 18.09.17</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>19.09.17</i>		
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		211.0	
8. Velocity, m/sec.	IS 11255 (Part-3)	8.1	
9. Volumetric Flow Rate, NM ³ /hr.		238.1	
10. Sampling Point		Top of Exhaust	
		Concentration (mg / NM³)	Limit as per E (P) Rules
11. Particulate Matter (P.M.)	IS 11255 (Part-1)	46.3	<i>75.0 mg / NM³</i>
12. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	65.0	<i>Not Specified</i>
13. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	190.8	<i>710.0 mg / NM³</i>
N.B.:	<i>There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust</i>		



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