



**ECL/ BIHAR/EMR/26062014/5**

**DATED- 26.06.2014**

**To,**  
**Regional office ( Central Region),**  
**Ministry of Environment and Forests,**  
**A-3, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.**  
**Tel: 0674-2301248, 2301213; Fax: 0674-2302432**

**Sub.:** Environmental Monitoring Results of M/s. ECO CEMENTS LTD for the period of October 2013 to March, 2014.

**Ref :** Consent to operate letter No. P/T 3-129/05-T-8437 & P/T2- 26/12-T-8436

**Dear Sir,**

We are submitting herewith the monthly Environmental Monitoring Results of Ambient Air Quality, Stack emission Noise Monitoring and Fugitive Emission of **Eco Cements Limited**, Plot No. 1644, Bheriya More, Kulharia, Durgawati, Bhabua, Bihar, Pin code- 821105 for the period of October 2013 to March, 2014.

This is for your kind information please.

Thanking you.  
Yours Faithfully,  
**For Eco Cements Ltd.**

A handwritten signature in blue ink, appearing to read "Rajiv Saini". The signature is fluid and cursive, with a prominent initial 'R'.

Rajiv Saini  
( G.M. Projects)

**Encl: Monthly Test Reports.**

**Copy to.**

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

**ECO CEMENTS LIMITED**

**Corp. Office :** 72, Jawahar nagar Extn, Bhelupur, Varanasi-221010. Telefax – 0542-2277074

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

**Works :** 1644, Beriya Road, Kulharia, Durgawati, Bhabua ( Kaimur), Bihar- 821105.

TEST REPORT					
Ref. No. ECO/P- SE/13/117			Dated:13.10.2013		
(a)	Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati.		
(b)	Report to be submitted to		Director		
(c)	Details of Sample		Monitoring og Stack Emission of 500 KVA DG Set		
(d)	No.& Type of container		Thimble & Glass Impinger		
(e)	Date of Sample				
	<b>Parameters</b>		<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to				500 KVA DG Set
2	Height of Stack (as reported)				3
3	Dia of Stack at Top(as reported)				0.2
4	Draft				Natural
5	Material of Construction				M.S.
6	Ambient Temperature, °C				20
7	Fuel Gas Temperature, °C				127
8	Velocity,m/sec		IS 11255 (Part-3)		6.5
9	Samplling Point				Top of Exhaust
					Contentration. ( mg / NM <sup>3</sup> )
					Limit as per E(P) Rules
10	Particulate Matter (P.M.)		IS 11255 (Part-1)		<b>26.8</b> 75.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )		IS 11255 (Part-2)		<b>64.3</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )		IS 11255 (Part-7)		<b>180.1</b> 710.00 mg/NM <sup>3</sup>

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- SE/13/118				Dated:14.11.2013		
(a)	Name and address			ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati.		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring og Stack Emission of 500 KVA DG Set		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
		<b>Parameters</b>		<b>Method of Test</b>	<b>Results</b>	
1	Stack Connected to				500 KVA DG Set	
2	Height of Stack (as reported)				3	
3	Dia of Stack at Top(as reported)				0.2	
4	Draft				Natural	
5	Material of Construction				M.S.	
6	Ambient Temperature, °C				16	
7	Fuel Gas Temperature, °C				124	
8	Velocity,m/sec			IS 11255 (Part-3)	6.9	
9	Samplling Point				Top of Exhaust	
					Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)	<b>27.4</b>	75.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)	<b>63.5</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)	<b>192.7</b>	710.00 mg/NM <sup>3</sup>

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT					
Ref. No. ECO/P- SE/13/119			Dated:21.12.2013		
(a)	Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati.		
(b)	Report to be submitted to		Director		
(c)	Details of Sample		Monitoring og Stack Emission of 500 KVA DG Set		
(d)	No.& Type of container		Thimble & Glass Impinger		
(e)	Date of Sample				
	<b>Parameters</b>		<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to				500 KVA DG Set
2	Height of Stack (as reported)				3
3	Dia of Stack at Top(as reported)				0.2
4	Draft				Natural
5	Material of Construction				M.S.
6	Ambient Temperature, °C				17
7	Fuel Gas Temperature, °C				120
8	Velocity,m/sec		IS 11255 (Part-3)		6.4
9	Samplling Point				Top of Exhaust
					Contentration. ( mg / NM <sup>3</sup> )
					Limit as per E(P) Rules
10	Particulate Matter (P.M.)		IS 11255 (Part-1)		<b>24.8</b> 75.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )		IS 11255 (Part-2)		<b>66.3</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )		IS 11255 (Part-7)		<b>191.8</b> 710.00 mg/NM <sup>3</sup>

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TEST REPORT						
Ref. No. ECO/P- SE/14/120				Dated:11.01.2014		
(a)	Name and address			ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati.		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring og Stack Emission of 500 KVA DG Set		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					500 KVA DG Set
2	Height of Stack (as reported)					3
3	Dia of Stack at Top(as reported)					0.2
4	Draft					Natural
5	Material of Construction					M.S.
6	Ambient Temperature, °C					12
7	Fuel Gas Temperature, °C					120
8	Velocity,m/sec			IS 11255 (Part-3)	6.3	
9	Sampling Point			Top of Exhaust		
				Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules	
10	Particulate Matter (P.M.)			IS 11255 (Part-1)	<b>29.8</b>	75.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)	<b>66.3</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)	<b>198.7</b>	710.00 mg/NM <sup>3</sup>

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TEST REPORT						
Ref. No. ECO/P- SE/14/121				Dated:17.02.2014		
(a)	Name and address			ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati.		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring og Stack Emission of 500 KVA DG Set		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					500 KVA DG Set
2	Height of Stack (as reported)					3
3	Dia of Stack at Top(as reported)					0.2
4	Draft					Natural
5	Material of Construction					M.S.
6	Ambient Temperature, °C					17
7	Fuel Gas Temperature, °C					124
8	Velocity,m/sec			IS 11255 (Part-3)		6.5
9	Sampling Point					Top of Exhaust
						Contentration. ( mg / NM <sup>3</sup> )
						Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)		<b>28.4</b> 75.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)		<b>64.5</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)		<b>188.7</b> 710.00 mg/NM <sup>3</sup>

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TEST REPORT						
Ref. No. ECO/P- SE/14/122				Dated:16.03.2014		
(a)	Name and address			ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati.		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring og Stack Emission of 500 KVA DG Set		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					500 KVA DG Set
2	Height of Stack (as reported)					3
3	Dia of Stack at Top(as reported)					0.2
4	Draft					Natural
5	Material of Construction					M.S.
6	Ambient Temperature, °C					18
7	Fuel Gas Temperature, °C					123
8	Velocity,m/sec			IS 11255 (Part-3)	6.2	
9	Sampling Point			Top of Exhaust		
					Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)	<b>27.8</b>	75.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)	<b>66.2</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)	<b>189.3</b>	710.00 mg/NM <sup>3</sup>

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TEST REPORT						
Ref. No. ECO/P- SE/13/112				Dated:21.10.2013		
(a)	Name and address			<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring og Stack Emission of 125 KVA DG Set		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					125 KVA DG Set
2	Height of Stack (as reported)					2.1
3	Dia of Stack at Top(as reported)					0.13 m.
4	Draft					Natural
5	Material of Construction					M.S.
6	Ambient Temperature, °C					20
7	Fuel Gas Temperature, °C					119
8	Velocity,m/sec			IS 11255 (Part-3)		6.7
9	Sampling Point					Top of Exhaust
						Contentration. ( mg / NM <sup>3</sup> )
						Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)		<b>33.8</b> 75.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)		<b>54.4</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)		<b>175.6</b> 710.00 mg/NM <sup>3</sup>

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- SE/13/113				Dated:12.11.2013		
(a)	Name and address			<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring og Stack Emission of 125 KVA DG Set		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					125 KVA DG Set
2	Height of Stack (as reported)					2.1
3	Dia of Stack at Top(as reported)					0.13 m.
4	Draft					Natural
5	Material of Construction					M.S.
6	Ambient Temperature, °C					16
7	Fuel Gas Temperature, °C					114
8	Velocity,m/sec			IS 11255 (Part-3)		6.8
9	Samplling Point					Top of Exhaust
						Contentration. ( mg / NM <sup>3</sup> )
						Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)		33.5
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)		55.8
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)		177.6
						75.00 mg/NM <sup>3</sup>
						Not specified
						710.00 mg/NM <sup>3</sup>

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- SE/13/114				Dated:14.12.2013		
(a)	Name and address			<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring og Stack Emission of 125 KVA DG Set		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
		<b>Parameters</b>		<b>Method of Test</b>	<b>Results</b>	
1	Stack Connected to				125 KVA DG Set	
2	Height of Stack (as reported)				2.1	
3	Dia of Stack at Top(as reported)				0.13 m.	
4	Draft				Natural	
5	Material of Construction				M.S.	
6	Ambient Temperature, °C				17	
7	Fuel Gas Temperature, °C				123	
8	Velocity,m/sec			IS 11255 (Part-3)	6.8	
9	Samplling Point				Top of Exhaust	
					Contentration. ( mg /NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)	<b>34.4</b>	75.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)	<b>57.1</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)	<b>180.6</b>	710.00 mg/NM <sup>3</sup>

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TEST REPORT					
Ref. No. ECO/P- SE/14/115			Dated:15.01.2014		
(a)	Name and address		<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to		Director		
(c)	Details of Sample		Monitoring og Stack Emission of 125 KVA DG Set		
(d)	No.& Type of container		Thimble & Glass Impinger		
(e)	Date of Sample				
	<b>Parameters</b>		<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to				125 KVA DG Set
2	Height of Stack (as reported)				2.1
3	Dia of Stack at Top(as reported)				0.13 m.
4	Draft				Natural
5	Material of Construction				M.S.
6	Ambient Temperature, °C				12
7	Fuel Gas Temperature, °C				115
8	Velocity,m/sec		IS 11255 (Part-3)		7.5
9	Samplling Point				Top of Exhaust
					Contentration. ( mg / NM <sup>3</sup> )
					Limit as per E(P) Rules
10	Particulate Matter (P.M.)		IS 11255 (Part-1)		<b>31.1</b> 75.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )		IS 11255 (Part-2)		<b>55.1</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )		IS 11255 (Part-7)		<b>183.1</b> 710.00 mg/NM <sup>3</sup>

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- SE/14/116				Dated:13.02.2014		
(a)	Name and address			ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring og Stack Emission of 125 KVA DG Set		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					125 KVA DG Set
2	Height of Stack (as reported)					2.1
3	Dia of Stack at Top(as reported)					0.13 m.
4	Draft					Natural
5	Material of Construction					M.S.
6	Ambient Temperature, °C					17
7	Fuel Gas Temperature, °C					118
8	Velocity,m/sec			IS 11255 (Part-3)		7.2
9	Samplling Point					Top of Exhaust
						Contentration. ( mg / NM <sup>3</sup> )
						Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)		<b>33.6</b> 75.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)		<b>54.5</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)		<b>178.2</b> 710.00 mg/NM <sup>3</sup>

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- SE/14/117				Dated:15.03.2014		
(a)	Name and address			<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring og Stack Emission of 125 KVA DG Set		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					125 KVA DG Set
2	Height of Stack (as reported)					2.1
3	Dia of Stack at Top(as reported)					0.13 m.
4	Draft					Natural
5	Material of Construction					M.S.
6	Ambient Temperature, °C					18
7	Fuel Gas Temperature, °C					116
8	Velocity,m/sec			IS 11255 (Part-3)		6.9
9	Sampling Point					Top of Exhaust
						Concentration. ( mg / NM <sup>3</sup> )
						Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)		<b>32.7</b> 75.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)		<b>54.6</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)		<b>179.7</b> 710.00 mg/NM <sup>3</sup>

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

**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- AAQ/13/107			Dated:18.10.2013			
(a)	Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua				
(b)	Report to be submitted to	Director				
(c)	Details of Sample	Monitoring of Ambient Air Quality.				
(d)	No.& Type of container	Filter Paper; Glass Impinger				
(e)	Date of Sample					
Sampling Station						
Parameters	Method of Test	Near Main Gate	Near CCR	Near Canteen	Near Gypsum Storage	Limit as NAAQS Nov.'2009
1. Particulate Matter (PM <sub>10</sub> ),	IS 5182 (Part-23)	79.7,69.0,80.5	80.6,81.2,78.8	70.6,68.4,67.4	77.7,75.4,76.5	100 µg/m <sup>3</sup>
2. Sulphur Dioxide as SO <sub>2</sub> µg/m <sup>3</sup>	IS 5182 (Part-2)	19.1,18.9,19.7	21.6,18.5,18.2	12.5,16.9,17.4	17.6,18.9,17.4	80 µg/m <sup>3</sup>
3. Nitrogen Dioxide as NO <sub>2</sub> µg/m <sup>3</sup>	IS 5182 (Part-2)	24.9,21.7	22.2,20.7,24.1	20.0,23.5,18.1	19.4,20.7,20.9	80 µg/m <sup>3</sup>
Average Vale						
PM <sub>10</sub>		76.1	80	69.7	76.3	
SO <sub>2</sub>		19.3	19.1	15.4	17.9	
NO <sub>2</sub>		23.3	22.5	19.3	20.7	

### ECO CEMENTS LIMITED

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

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



**ECO CEMENTS LIMITED**

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- AAQ/13/108			Dated:15.11.2013			
(a)	Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua				
(b)	Report to be submitted to	Director				
(c)	Details of Sample	Monitoring of Ambient Air Quality.				
(d)	No.& Type of container	Filter Paper; Glass Impinger				
(e)	Date of Sample					
Sampling Station						
Parameters	Method of Test	Near Main Gate	Near CCR	Near Canteen	Near Gypsum Storage	Limit as NAAQS Nov.'2009
1. Particulate Matter (PM <sub>10</sub> ),	IS 5182 (Part-23)	70.7,74.0,75.5	75.6,76.2,74.8	69.6,65.4,67.4	70.7,72.4,74.8	100 µg/m <sup>3</sup>
2. Sulphur Dixide as SO <sub>2</sub> µg/m <sup>3</sup>	IS 5182 (Part-2)	22.1,23.9,20.7	19.6,17.5,18.2	12.5,17.9,15.4	17.6,15.9,15.4	80 µg/m <sup>3</sup>
3. Nitrogen Dixide as NO <sub>2</sub> µg/m <sup>3</sup>	IS 5182 (Part-2)	22.9,21.7	22.2,18.7,18.1	23.0,21.5,22.1	19.4,20.7,16.9	80 µg/m <sup>3</sup>
Average Vale						
PM <sub>10</sub>		72.8	75.7	67	72.5	
SO <sub>2</sub>		21.2	18.4	16.5	16.4	
NO <sub>2</sub>		22.2	19.8	21.2	18.3	

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

TEST REPORT						
Ref. No. ECO/P- AAQ/13/109			Dated:17.12.2013			
(a)	Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua			
(b)	Report to be submitted to		Director			
(c)	Details of Sample		Monitoring of Ambient Air Quality.			
(d)	No.& Type of container		Filter Paper; Glass Impinger			
(e)	Date of Sample					
Sampling Station						
Parameters	Method of Test	Near Main Gate	Near CCR	Near Canteen	Near Gypsum Storage	Limit as NAAQS Nov.'2009
1. Particulate Matter (PM <sub>10</sub> ),	IS 5182 (Part-23)	73.7,71.0,73.5	79.6,80.2,78.8	70.6,75.4,66.4	73.7,72.4,74.5	100 µg/m <sup>3</sup>
2. Sulphur Dixide as SO <sub>2</sub> µg/m <sup>3</sup>	IS 5182 (Part-2)	19.1,17.9,16.7	19.6,11.5,22.2	12.5,16.9,17.4	10.6,14.9,13.9	80 µg/m <sup>3</sup>
3. Nitrogen Dixide as NO <sub>2</sub> µg/m <sup>3</sup>	IS 5182 (Part-2)	24.9,22.7	22.2,20.7,20.1	23.0,18.5,17.1	17.4,20.7,19.9	80 µg/m <sup>3</sup>
Average Vale						
PM <sub>10</sub>		72.7	79.7	70.4	73.6	
SO <sub>2</sub>		17.6	16.6	15.1	12.7	
NO <sub>2</sub>		23.5	20.4	19.3	18.9	

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- AAQ/14/110			Dated:12.01.2014			
(a)	Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua			
(b)	Report to be submitted to		Director			
(c)	Details of Sample		Monitoring of Ambient Air Quality.			
(d)	No.& Type of container		Filter Paper; Glass Impinger			
(e)	Date of Sample					
Sampling Station						
Parameters	Method of Test	Near Main Gate	Near CCR	Near Canteen	Near Gypsum Storage	Limit as NAAQS Nov.'2009
1. Particulate Matter (PM <sub>10</sub> ),	IS 5182 (Part-23)	72.7,73.0,72.5	76.6,74.2,75.8	70.6,65.4,67.4	75.7,76.4,74.5	100 µg/m <sup>3</sup>
2. Sulphur Dioxide as SO <sub>2</sub> µg/m <sup>3</sup>	IS 5182 (Part-2)	19.1,15.9,16.7	19.6,24.5,21.2	12.5,10.9,11.4	15.6,18.9,12.4	80 µg/m <sup>3</sup>
3. Nitrogen Dioxide as NO <sub>2</sub> µg/m <sup>3</sup>	IS 5182 (Part-2)	19.9,17.7	12.2,10.7,10.1	23.0,24.5,23.1	19.4,18.3,19.0	80 µg/m <sup>3</sup>
Average Vale						
PM <sub>10</sub>		72.5	75.7	71.5	75.7	
SO <sub>2</sub>		16.4	16.5	21.2	15.4	
NO <sub>2</sub>		18.3	21.2	23.4	19.3	

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

TEST REPORT						
Ref. No. ECO/P- AAQ/14/111			Dated:09.02.2014			
(a)	Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua			
(b)	Report to be submitted to		Director			
(c)	Details of Sample		Monitoring of Ambient Air Quality.			
(d)	No.& Type of container		Filter Paper; Glass Impinger			
(e)	Date of Sample					
Sampling Station						
Parameters	Method of Test	Near Main Gate	Near CCR	Near Canteen	Near Gypsum Storage	Limit as NAAQS Nov.'2009
1. Particulate Matter (PM <sub>10</sub> ),	IS 5182 (Part-23)	69.7,69.2,63.5	70.6,68.2,68.8	59.6,60.4,60.4	64.7,62.4,63.5	100 µg/m <sup>3</sup>
2. Sulphur Dioxide as SO <sub>2</sub> µg/m <sup>3</sup>	IS 5182 (Part-2)	9.1,11.9,10.7	9.6,10.5,9.2	9.5,8.9,8.4	6.6,8.9,6.4	80 µg/m <sup>3</sup>
3. Nitrogen Dioxide as NO <sub>2</sub> µg/m <sup>3</sup>	IS 5182 (Part-2)	11.9,11.7	10.2,10.7,10.1	9.0,10.5,10.3	9.4,10.7,9.3	80 µg/m <sup>3</sup>
Average Vale						
PM <sub>10</sub>		67.1	71.2	60.6	63.4	
SO <sub>2</sub>		10.4	9.3	9	7	
NO <sub>2</sub>		11.5	10	9.5	10.1	

TEST REPORT						
Ref. No. ECO/P- AAQ/14/112			Dated:17.03.2014			
(a)	Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua				
(b)	Report to be submitted to	Director				
(c)	Details of Sample	Monitoring of Ambient Air Quality.				
(d)	No.& Type of container	Filter Paper; Glass Impinger				
(e)	Date of Sample					
Sampling Station						
Parameters	Method of Test	Near Main Gate	Near CCR	Near Canteen	Near Gypsum Storage	Limit as NAAQS Nov.'2009
1. Particulate Matter (PM <sub>10</sub> ),	IS 5182 (Part-23)	70.7,69.0,72.5	70.6,72.2,68.8	68.6,65.4,67.4	68.7,66.4,66.5	100 µg/m <sup>3</sup>
2. Sulphur Dioxide as SO <sub>2</sub> µg/m <sup>3</sup>	IS 5182 (Part-2)	9.1,7.9,9.7	9.6,11.5,9.2	12.5,10.9,11.4	10.6,11.6,8.4	80 µg/m <sup>3</sup>
3. Nitrogen Dioxide as NO <sub>2</sub> µg/m <sup>3</sup>	IS 5182 (Part-2)	12.9,11.7	12.2,10.7,10.1	13.0,11.5,12.1	9.4,8.7,9.9	80 µg/m <sup>3</sup>
Average Vale						
PM <sub>10</sub>		70.1	70.9	67.3	67.2	
SO <sub>2</sub>		11.5	10.9	11.2	10.2	
NO <sub>2</sub>		10.3	12.3	9.9	9.3	

### ECO CEMENTS LIMITED

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

**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT	
Ref. No. ECO/P- ANL/13/144	Dated:16.10.2013
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua
(b) Report to be submitted to	Director
(c) Details of Sample	Monitoring of Ambient Noise Level.
(d) Monitored by	<b>ECO CEMENT Ltd.</b>
(e) Date of Monitoring	16.10.2013
<b>Sampling Locations</b>	Time weighted Average (TWA) Of Noise Level in db(A)
1 Near Main Gate	<b>61.7</b>
2 Near CCR	<b>66.3</b>
3 Near Canteen	<b>60</b>
4 Near Gypsum Storage Area	<b>60</b>
5 Near Clinker storage Area	<b>60</b>
N.B.:	The Ambient Air Quality standards in respect of Noise as per Noise Pollution( Regulation and Control).Rules 2000 for Industrial area is 75.0 db(A),for Comercial area is 65.0 db(A),for Residencial area is 55.0 db(A) & for Silence Zone is 50.0 db(A) in daytime i.e. 6.00 am to 9.00 p.m. as per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 db(A) or more against any area/zone.

### ECO CEMENTS LIMITED

**Corp. Office** : 72, Jawahar nagar Extn, Bhelupur, Varanasi-221010. Telefax – 0542-2277074

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

**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT	
Ref. No. ECO/P- ANL/13/145	Dated:13.11.2013
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua
(b) Report to be submitted to	Director
(c) Details of Sample	Monitoring of Ambient Noise Level.
(d) Monitored by	<b>ECO CEMENT Ltd.</b>
(e) Date of Monitoring	13.11.2013
<b>Sampling Locations</b>	<b>Time weighted Average (TWA) Of Noise Level in db(A)</b>
1 Near Main Gate	<b>60.7</b>
2 Near CCR	<b>67.3</b>
3 Near Canteen	<b>63.4</b>
4 Near Gypsum Storage Area	<b>63.4</b>
5 Near Clinker storage Area	<b>63.4</b>
N.B.:	The Ambient Air Quality standards in respect of Noise as per Noise Pollution( Regulation and Control),Rules 2000 for Industrial area is 75.0 db(A),for Comercial area is 65.0 db(A),for Residential area is 55.0 db(A) & for Silence Zone is 50.0 db(A) in daytime i.e. 6.00 am to 9.00 p.m. as per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 db(A) or more against any area/zone.

### ECO CEMENTS LIMITED

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

## TEST REPORT

Ref. No. ECO/P- ANL/13/146		Dated:10.12.2013	
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b) Report to be submitted to	Director		
(c) Details of Sample	Monitoring of Ambient Noise Level.		
(d) Monitored by	ECO CEMENT Ltd.		
(e) Date of Monitoring	10.12.2013		
<b>Sampling Locations</b>		<b>Time weighted Average (TWA)</b>	
		<b>Of Noise Level in db(A)</b>	
1 Near Main Gate	64.6		
2 Near CCR	69.1		
3 Near Canteen	60.2		
4 Near Gypsum Storage Area	58.4		
5 Near Clinker storage Area	58.8		
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 9.00 p.m. as per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 db(A) or more against any area/zone.		

TEST REPORT	
Ref. No. ECO/P- ANL/13/147	Dated:9.1.2014
(a) Name and address	<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>
(b) Report to be submitted to	Director
(c) Details of Sample	Monitoring of Ambient Noise Level.
(d) Monitored by	<b>ECO CEMENT Ltd.</b>
(e) Date of Monitoring	9.1.2014
<b>Sampling Locations</b>	Time weighted Average (TWA) Of Noise Level in db(A)
1 Near Main Gate	<b>65.3</b>
2 Near CCR	<b>64</b>
3 Near Canteen	<b>62.5</b>
4 Near Gypsum Storage Area	<b>62.5</b>
5 Near Clinker storage Area	<b>62.5</b>
N.B.:	The Ambient Air Quality standards in respect of Noise as per Noise Pollution( Regulation and Control).Rules 2000 for Industrial area is 75.0 db(A),for Comercial area is 65.0 db(A),for Residensial area is 55.0 db(A) & for Silence Zone is 50.0 db(A) in daytime i.e. 6.00 am to 9.00 p.m. as per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 db(A) or more against any area/zone.

### ECO CEMENTS LIMITED

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT	
Ref. No. ECO/P- ANL/13/148	Dated:14.2.2014
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua
(b) Report to be submitted to	Director
(c) Details of Sample	Monitoring of Ambient Noise Level.
(d) Monitored by	<b>ECO CEMENT Ltd.</b>
(e) Date of Monitoring	14.2.2014
<b>Sampling Locations</b>	Time weighted Average (TWA) Of Noise Level in db(A)
1 Near Main Gate	<b>62.8</b>
2 Near CCR	<b>63.7</b>
3 Near Canteen	<b>59.3</b>
4 Near Gypsum Storage Area	<b>60.2</b>
5 Near Clinker storage Area	<b>58.4</b>
N.B.:	The Ambient Air Quality standards in respect of Noise as per Noise Pollution( Regulation and Control).Rules 2000 for Industrial area is 75.0 db(A),for Comercial area is 65.0 db(A),for Residensial area is 55.0 db(A) & for Silence Zone is 50.0 db(A) in daytime i.e. 6.00 am to 9.00 p.m. as per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 db(A) or more against any area/zone.

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT	
Ref. No. ECO/P- ANL/13/149	Dated:15.3.2014
(a) Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua
(b) Report to be submitted to	Director
(c) Details of Sample	Monitoring of Ambient Noise Level.
(d) Monitored by	<b>ECO CEMENT Ltd.</b>
(e) Date of Monitoring	15.3.2014
<b>Sampling Locations</b>	Time weighted Average (TWA) Of Noise Level in db(A)
1 Near Main Gate	<b>62.5</b>
2 Near CCR	<b>61.2</b>
3 Near Canteen	<b>59.9</b>
4 Near Gypsum Storage Area	<b>60.3</b>
5 Near Clinker storage Area	<b>61.4</b>
N.B.:	The Ambient Air Quality standards in respect of Noise as per Noise Pollution( Regulation and Control).Rules 2000 for Industrial area is 75.0 db(A),for Comercial area is 65.0 db(A),for Residensial area is 55.0 db(A) & for Silence Zone is 50.0 db(A) in daytime i.e. 6.00 am to 9.00 p.m. as per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 db(A) or more against any area/zone.

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT					
Ref. No. ECO/P- FDE/13/138			Dated: 20.10.2013		
(a)	Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua			
(b)	Report to be submitted to	Director			
(c)	Details of Sample	Monitoring of Fugitive Emissions in Work Zone a			
(d)	No.& Type of container	Filter Paper			
(e)	Date of Sample	20.10.2013			
S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc <sup>n.*</sup>	Concentration of Respirable Dust	Permissible TWA Conc <sup>n.*</sup>
		mg/M <sup>3</sup>	mg/M3	mg/M3	mg/M3
1	Mill Section Ground Floor	3.4	10.0	1.62	5.0
2	Mill Section 01 <sup>st</sup> Floor	3.9	10.0	1.15	5.0
3	Mill Section 02 <sup>nd</sup> Floor	2.9	10.0	1.42	5.0
4	South Side of Mill section	4.2	10.0	1.3	5.0
5	North Side of Mill section	2.7	10.0	1	5.0
* Permissible time Weighed (TWA) Conc <sup>n.</sup> based on Silica Content as per Factories Act '1948 Second Schedule.					

### ECO CEMENTS LIMITED

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

Ref. No. ECO/P- FDE/13/139			Dated: 14.11.2013		
(a)	Name and address				ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua
(b)	Report to be submitted to				Director
(c)	Details of Sample				Monitoring of Fugitive Emissions in Work Zone area
(d)	No.& Type of container				Filter Paper
(e)	Date of Sample				14.11.2013
S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc <sup>n.*</sup>	Concentration of Respirable Dust	Permissible TWA Conc <sup>n.*</sup>
		mg/M <sup>3</sup>	mg/M3	mg/M3	mg/M3
1	Mill Section Ground Floor	3.2	5.2	1.49	5.0
2	Mill Section 01 <sup>st</sup> Floor	3.8	10.0	1.18	5.0
3	Mill Section 02 <sup>nd</sup> Floor	3.1	10.0	1.62	5.0
4	South Side of Mill section	5	10.0	1.82	5.0
5	North Side of Mill section	3.3	10.0	1.3	5.0
* Permissible time Weighed (TWA) Conc <sup>n.</sup> based on Silica Content as per Factories Act '1948 Second Schedule.					

### ECO CEMENTS LIMITED

**Corp. Office** : 72, Jawahar nagar Extn, Bhelupur, Varanasi-221010. Telefax – 0542-2277074

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

**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

Ref. No. ECO/P- FDE/13/140			Dated: 18.12.2013		
(a)	Name and address	ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua			
(b)	Report to be submitted to	Director			
(c)	Details of Sample	Monitoring of Fugitive Emissions in Work Zone a			
(d)	No.& Type of container	Filter Paper			
(e)	Date of Sample	18.12.2013			
S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc <sup>n.*</sup>	Concentration of Respirable Dust	Permissible TWA Conc <sup>n.*</sup>
		mg/M <sup>3</sup>	mg/M3	mg/M3	mg/M3
1	Mill Section Ground Floor	3.5	5.2	1.33	5.0
2	Mill Section 01 <sup>st</sup> Floor	4.1	10.0	1.62	5.0
3	Mill Section 02 <sup>nd</sup> Floor	2.8	10.0	1.82	5.0
4	South Side of Mill section	5.3	10.0	1	5.0
5	North Side of Mill section	3.3	10.0	1.3	5.0
* Permissible time Weighed (TWA) Conc <sup>n.</sup> based on Silica Content as per Factories Act '1948 Second Schedule.					

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT					
Ref. No. ECO/P- FDE/14/141			Dated: 16.01.2014		
(a)	Name and address	<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>			
(b)	Report to be submitted to	Director			
(c)	Details of Sample	<b>Monitoring of Fugitive Emissions in Work Zone a</b>			
(d)	No.& Type of container	Filter Paper			
(e)	Date of Sample	16.01.2014			
S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc <sup>n.*</sup>	Concentration of Respirable Dust	Permissible TWA Conc <sup>n.*</sup>
		mg/M <sup>3</sup>	mg/M3	mg/M3	mg/M3
1	Mill Section Ground Floor	3.3	5.2	98	5.0
2	Mill Section 01 <sup>st</sup> Floor	3.9	10.0	1.82	5.0
3	Mill Section 02 <sup>nd</sup> Floor	2.9	10.0	1	5.0
4	South Side of Mill section	5.1	10.0	1.3	5.0
5	North Side of Mill section	3.2	10.0	1.62	5.0
* Permissible time Weighed (TWA) Conc <sup>n.</sup> based on Silica Content as per Factories Act'1948 Second Schedule.					

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT					
Ref. No. ECO/P- FDE/14/142			Dated: 10.02.2014		
(a)	Name and address	<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>			
(b)	Report to be submitted to	Director			
(c)	Details of Sample	<b>Monitoring of Fugitive Emissions in Work Zone a</b>			
(d)	No.& Type of container	Filter Paper			
(e)	Date of Sample	10.02.2014			
S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc <sup>n.*</sup>	Concentration of Respirable Dust	Permissible TWA Conc <sup>n.*</sup>
		mg/M <sup>3</sup>	mg/M3	mg/M3	mg/M3
1	Mill Section Ground Floor	5.1	5.2	1.78	5.0
2	Mill Section 01 <sup>st</sup> Floor	4.4	10.0	1	5.0
3	Mill Section 02 <sup>nd</sup> Floor	3	10.0	1.3	5.0
4	South Side of Mill section	5.6	10.0	1.62	5.0
5	North Side of Mill section	4.2	10.0	1.49	5.0
* Permissible time Weighed (TWA) Conc <sup>n.</sup> based on Silica Content as per Factories Act '1948 Second Schedule.					

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

Ref. No. ECO/P- FDE/14/143			Dated: 17.03.2014		
(a)	Name and address				ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua
(b)	Report to be submitted to				Director
(c)	Details of Sample				Monitoring of Fugitive Emissions in Work Zone a
(d)	No.& Type of container				Filter Paper
(e)	Date of Sample				17.03.2014
S.N.	Sampling Point	Concentration of Total Dust	Permissible TWA Conc <sup>n.*</sup>	Concentration of Respirable Dust	Permissible TWA Conc <sup>n.*</sup>
		mg/M <sup>3</sup>	mg/M3	mg/M3	mg/M3
1	Mill Section Ground Floor	3.6	5.2	1.42	5.0
2	Mill Section 01 <sup>st</sup> Floor	4.2	10.0	1.3	5.0
3	Mill Section 02 <sup>nd</sup> Floor	2.7	10.0	1.62	5.0
4	South Side of Mill section	5.2	10.0	1.49	5.0
5	North Side of Mill section	3.2	10.0	1.33	5.0
* Permissible time Weighed (TWA) Conc <sup>n.</sup> based on Silica Content as per Factories Act '1948 Second Schedule.					

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- SE/13/127				Dated:14.10.2013		
(a)	Name and address			<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring of Stack Emission .		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					Bag Filter attached Cement Mill Vent.
2	Height of Stack (as reported)					33 m.
3	Dia of Stack at Top(as reported)					1.2 m.
4	Draft					I D Fan
5	Material of Construction					M.S.
6	Ambient Temperature, °C					20
7	Fuel Gas Temperature, °C					120
8	Velocity,m/sec			IS 11255 (Part-3)	6.5	
9	Sampling Point				21 m.	
					Contcentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)	<b>28.4</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)	<b>10.1</b>	Not specified

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TEST REPORT						
Ref. No. ECO/P- SE/13/128				Dated:20.11.2013		
(a)	Name and address			ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring of Stack Emission .		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					Bag Filter attached Cement Mill Vent.
2	Height of Stack (as reported)					33 m.
3	Dia of Stack at Top(as reported)					1.2 m.
4	Draft					I D Fan
5	Material of Construction					M.S.
6	Ambient Temperature, °C					16
7	Fuel Gas Temperature, °C					119
8	Velocity,m/sec			IS 11255 (Part-3)		7.1
9	Sampling Point					21 m.
					Concentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)		<b>26.1</b> 150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)		<b>Not detectable</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)		<b>12.4</b> Not specified

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TEST REPORT						
Ref. No. ECO/P- SE/13/129				Dated:11.12.2013		
(a)	Name and address			<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring of Stack Emission .		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					Bag Filter attached Cement Mill Vent.
2	Height of Stack (as reported)					33 m.
3	Dia of Stack at Top(as reported)					1.2 m.
4	Draft					I D Fan
5	Material of Construction					M.S.
6	Ambient Temperature, °C					17
7	Fuel Gas Temperature, °C					118
8	Velocity,m/sec			IS 11255 (Part-3)	6.7	
9	Sampling Point				21 m.	
					Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)	<b>27.1</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)	<b>12.1</b>	Not specified

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT					
Ref. No. ECO/P- SE/14/130			Dated:12.01.2014		
(a)	Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b)	Report to be submitted to		Director		
(c)	Details of Sample		Monitoring of Stack Emission .		
(d)	No.& Type of container		Thimble & Glass Impinger		
(e)	Date of Sample				
		Parameters	Method of Test	Results	
1	Stack Connected to			Bag Filter attached Cement Mill Vent.	
2	Height of Stack (as reported)			33 m.	
3	Dia of Stack at Top(as reported)			1.2 m.	
4	Draft			I D Fan	
5	Material of Construction			M.S.	
6	Ambient Temperature, °C			12	
7	Fuel Gas Temperature, °C			120	
8	Velocity,m/sec		IS 11255 (Part-3)	6.5	
9	Sampling Point			21 m.	
				Concentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)		IS 11255 (Part-1)	<b>27.1</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )		IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )		IS 11255 (Part-7)	<b>12.5</b>	Not specified

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT				
Ref. No. ECO/P- SE/14/131			Dated:17.02.2014	
(a)	Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b)	Report to be submitted to		Director	
(c)	Details of Sample		Monitoring of Stack Emission .	
(d)	No.& Type of container		Thimble & Glass Impinger	
(e)	Date of Sample			
	<b>Parameters</b>		<b>Method of Test</b>	<b>Results</b>
1	Stack Connected to			Bag Filter attached Cement Mill Vent.
2	Height of Stack (as reported)			33 m.
3	Dia of Stack at Top(as reported)			1.2 m.
4	Draft			I D Fan
5	Material of Construction			M.S.
6	Ambient Temperature, °C			17
7	Fuel Gas Temperature, °C			117
8	Velocity,m/sec		IS 11255 (Part-3)	6.9
9	Samplling Point			21 m.
			Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)		IS 11255 (Part-1)	<b>36.4</b> 150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )		IS 11255 (Part-2)	<b>Not detectable</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )		IS 11255 (Part-7)	<b>10.1</b> Not specified

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT					
Ref. No. ECO/P- SE/14/132			Dated:13.03.2014		
(a)	Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b)	Report to be submitted to		Director		
(c)	Details of Sample		Monitoring of Stack Emission .		
(d)	No.& Type of container		Thimble & Glass Impinger		
(e)	Date of Sample				
	<b>Parameters</b>		<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to				Bag Filter attached Cement Mill Vent.
2	Height of Stack (as reported)				33 m.
3	Dia of Stack at Top(as reported)				1.2 m.
4	Draft				I D Fan
5	Material of Construction				M.S.
6	Ambient Temperature, °C				18
7	Fuel Gas Temperature, °C				117
8	Velocity,m/sec		IS 11255 (Part-3)	7.8	
9	Sampling Point				21 m.
				Concentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)		IS 11255 (Part-1)	<b>26.1</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )		IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )		IS 11255 (Part-7)	<b>9.5</b>	Not specified

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- SE/13/135				Dated:18.10.2013		
(a)	Name and address			ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring of Stack Emission		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					Bag filter at Clinker-Gypsum Feeding area
2	Height of Stack (as reported)					30 m
3	Dia of Stack at Top(as reported)					0.6 m.
4	Draft					I D Fan
5	Material of Construction					M.S.
6	Ambient Temperature, °C					20
7	Fuel Gas Temperature, °C					45.6
8	Velocity,m/sec			IS 11255 (Part-3)	6.1	
9	Samplling Point				9 m.	
					Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)	<b>30.4</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)	<b>10.6</b>	Not specified

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- SE/13/136				Dated:17.11.2013		
(a)	Name and address			ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring of Stack Emission		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					Bag filter at Clinker-Gypsum Feeding area
2	Height of Stack (as reported)					30 m
3	Dia of Stack at Top(as reported)					0.6 m.
4	Draft					I D Fan
5	Material of Construction					M.S.
6	Ambient Temperature, °C					16
7	Fuel Gas Temperature, °C					47.3
8	Velocity,m/sec			IS 11255 (Part-3)	5.8	
9	Sampling Point				9 m.	
					Concentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)	<b>29.3</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)	<b>12</b>	Not specified

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TEST REPORT						
Ref. No. ECO/P- SE/13/137				Dated:15.12.2013		
(a)	Name and address			ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring of Stack Emission		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					Bag filter at Clinker-Gypsum Feeding area
2	Height of Stack (as reported)					30 m
3	Dia of Stack at Top(as reported)					0.6 m.
4	Draft					I D Fan
5	Material of Construction					M.S.
6	Ambient Temperature, °C					17
7	Fuel Gas Temperature, °C					51.2
8	Velocity,m/sec			IS 11255 (Part-3)		5.8
9	Sampling Point					9 m.
						Contentration. ( mg / NM <sup>3</sup> )
						Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)		<b>28.4</b> 150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)		<b>Not detectable</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)		<b>11.4</b> Not specified

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- SE/14/138				Dated:16.01.2014		
(a)	Name and address			<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring of Stack Emission		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					Bag filter at Clinker-Gypsum Feeding area
2	Height of Stack (as reported)					30 m
3	Dia of Stack at Top(as reported)					0.6 m.
4	Draft					I D Fan
5	Material of Construction					M.S.
6	Ambient Temperature, °C					12
7	Fuel Gas Temperature, °C					55.1
8	Velocity,m/sec			IS 11255 (Part-3)	6.4	
9	Samplling Point				9 m.	
					Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)	<b>29.4</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)	<b>12.5</b>	Not specified

## ECO CEMENTS LIMITED

**Corp. Office** : 72, Jawahar nagar Extn, Bhelupur, Varanasi-221010. Telefax – 0542-2277074

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

**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

## TEST REPORT

Ref. No. ECO/P- SE/14/139				Dated:11.02.2014			
(a)	Name and address			<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>			
(b)	Report to be submitted to			Director			
(c)	Details of Sample			Monitoring of Stack Emission			
(d)	No.& Type of container			Thimble & Glass Impinger			
(e)	Date of Sample						
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>	
1	Stack Connected to					Bag filter at Clinker-Gypsum Feeding area	
2	Height of Stack (as reported)					30 m	
3	Dia of Stack at Top(as reported)					0.6 m.	
4	Draft					I D Fan	
5	Material of Construction					M.S.	
6	Ambient Temperature, °C					17	
7	Fuel Gas Temperature, °C					48.9	
8	Velocity,m/sec			IS 11255 (Part-3)		6	
9	Samplling Point					9 m.	
						Contcentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)		<b>28.6</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)		<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)		<b>10.3</b>	Not specified

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT				
Ref. No. ECO/P- SE/14/140			Dated:21.03.2014	
(a)	Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b)	Report to be submitted to		Director	
(c)	Details of Sample		Monitoring of Stack Emission	
(d)	No.& Type of container		Thimble & Glass Impinger	
(e)	Date of Sample			
	<b>Parameters</b>		<b>Method of Test</b>	<b>Results</b>
1	Stack Connected to			Bag filter at Clinker-Gypsum Feeding area
2	Height of Stack (as reported)			30 m
3	Dia of Stack at Top(as reported)			0.6 m.
4	Draft			I D Fan
5	Material of Construction			M.S.
6	Ambient Temperature, °C			18
7	Fuel Gas Temperature, °C			53.2
8	Velocity,m/sec		IS 11255 (Part-3)	6.1
9	Sampling Point			9 m.
			Concentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)		IS 11255 (Part-1)	<b>28.1</b> 150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )		IS 11255 (Part-2)	<b>Not detectable</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )		IS 11255 (Part-7)	<b>10.7</b> Not specified

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

## TEST REPORT

Ref. No. ECO/P- SE/13/102				Dated: 16.10.2013			
(a)	Name and address			<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>			
(b)	Report to be submitted to			Director			
(c)	Details of Sample			Monitoring og Stack Emission .			
(d)	No.& Type of container			Thimble & Glass Impinger			
(e)	Date of Sample						
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>	
1	Stack Connected to					Bag Filter at Clinker Unloading Area	
2	Height of Stack (as reported)					30 m.	
3	Dia of Stack at Top(as reported)					0.75 m	
4	Draft					I D Fan	
5	Material of Construction					M.S.	
6	Ambient Temperature, °C					20	
7	Fuel Gas Temperature, °C					47.5	
8	Velocity,m/sec			IS 11255 (Part-3)		6.4	
9	Samplling Point					11 m	
						Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)		<b>25.4</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)		<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)		<b>17.1</b>	Not specified

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT					
Ref. No. ECO/P- SE/13/103			Dated: 18.11.2013		
(a)	Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b)	Report to be submitted to		Director		
(c)	Details of Sample		Monitoring og Stack Emission .		
(d)	No.& Type of container		Thimble & Glass Impinger		
(e)	Date of Sample				
	<b>Parameters</b>		<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to				Bag Filter at Clinker Unloading Area
2	Height of Stack (as reported)				30 m.
3	Dia of Stack at Top(as reported)				0.75 m
4	Draft				I D Fan
5	Material of Construction				M.S.
6	Ambient Temperature, °C				16
7	Fuel Gas Temperature, °C				45.2
8	Velocity,m/sec		IS 11255 (Part-3)		6.7
9	Sampling Point				11 m
					Contentration. ( mg / NM <sup>3</sup> )
					Limit as per E(P) Rules
10	Particulate Matter (P.M.)		IS 11255 (Part-1)		<b>28.2</b>
11	Sulphur Dioxide (SO <sub>2</sub> )		IS 11255 (Part-2)		<b>Not detectable</b>
12	Oxides of Nitrogen (NO <sub>2</sub> )		IS 11255 (Part-7)		<b>13.1</b>
					150.00 mg/NM <sup>3</sup>
					Not specified
					Not specified

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

## TEST REPORT

Ref. No. ECO/P- SE/13/104		Dated: 13.12.2013	
(a)	Name and address	<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>	
(b)	Report to be submitted to	Director	
(c)	Details of Sample	Monitoring og Stack Emission .	
(d)	No.& Type of container	Thimble & Glass Impinger	
(e)	Date of Sample		
	<b>Parameters</b>	<b>Method of Test</b>	<b>Results</b>
1	Stack Connected to		Bag Filter at Clinker Unloading Area
2	Height of Stack (as reported)		30 m.
3	Dia of Stack at Top(as reported)		0.75 m
4	Draft		I D Fan
5	Material of Construction		M.S.
6	Ambient Temperature, °C		17
7	Fuel Gas Temperature, °C		43.2
8	Velocity,m/sec	IS 11255 (Part-3)	6.1
9	Samplling Point		11 m
			Contentration. ( mg / NM <sup>3</sup> )
			Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	<b>29.1</b> 150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part-2)	<b>Not detectable</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )	IS 11255 (Part-7)	<b>18.3</b> Not specified

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- SE/14/105				Dated: 12.01.2014		
(a)	Name and address			ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring og Stack Emission .		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
		<b>Parameters</b>		<b>Method of Test</b>	<b>Results</b>	
1	Stack Connected to				Bag Filter at Clinker Unloading Area	
2	Height of Stack (as reported)				30 m.	
3	Dia of Stack at Top(as reported)				0.75 m	
4	Draft				I D Fan	
5	Material of Construction				M.S.	
6	Ambient Temperature, °C				12	
7	Fuel Gas Temperature, °C				43.2	
8	Velocity,m/sec			IS 11255 (Part-3)	6.7	
9	Samplling Point				11 m	
					Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)	<b>28.4</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)	<b>13.1</b>	Not specified

## ECO CEMENTS LIMITED

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

## TEST REPORT

Ref. No. ECO/P- SE/14/106		Dated: 15.02.2014	
(a)	Name and address	<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>	
(b)	Report to be submitted to	Director	
(c)	Details of Sample	Monitoring og Stack Emission .	
(d)	No.& Type of container	Thimble & Glass Impinger	
(e)	Date of Sample		
	<b>Parameters</b>	<b>Method of Test</b>	<b>Results</b>
1	Stack Connected to		Bag Filter at Clinker Unloading Area
2	Height of Stack (as reported)		30 m.
3	Dia of Stack at Top(as reported)		0.75 m
4	Draft		I D Fan
5	Material of Construction		M.S.
6	Ambient Temperature, °C		17
7	Fuel Gas Temperature, °C		44.3
8	Velocity,m/sec	IS 11255 (Part-3)	6.8
9	Samplling Point		11 m
			Contentration. ( mg / NM <sup>3</sup> )
			Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	<b>34.4</b> 150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part-2)	<b>Not detectable</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )	IS 11255 (Part-7)	<b>16.3</b> Not specified

**ECO CEMENTS LIMITED**

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

## TEST REPORT

Ref. No. ECO/P- SE/14/107				Dated: 17.03.2014			
(a)	Name and address			<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>			
(b)	Report to be submitted to			Director			
(c)	Details of Sample			Monitoring og Stack Emission .			
(d)	No.& Type of container			Thimble & Glass Impinger			
(e)	Date of Sample						
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>	
1	Stack Connected to					Bag Filter at Clinker Unloading Area	
2	Height of Stack (as reported)					30 m.	
3	Dia of Stack at Top(as reported)					0.75 m	
4	Draft					I D Fan	
5	Material of Construction					M.S.	
6	Ambient Temperature, °C					18	
7	Fuel Gas Temperature, °C					43.9	
8	Velocity,m/sec			IS 11255 (Part-3)		7	
9	Sampling Point					11 m	
						Contcentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)		<b>27.7</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)		<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)		<b>16.8</b>	Not specified

**ECO CEMENTS LIMITED**

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT					
Ref. No. ECO/P- SE/13/128			Dated:13.10.2013		
(a)	Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b)	Report to be submitted to		Director		
(c)	Details of Sample		Monitoring og Stack Emission.		
(d)	No.& Type of container		Thimble & Glass Impinger		
(e)	Date of Sample				
	<b>Parameters</b>		<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to				Bag Filter at Fly ash Unloading Area
2	Height of Stack (as reported)				30 m
3	Dia of Stack at Top(as reported)				1.05 m.
4	Draft				ID Fan
5	Material of Construction				M.S.
6	Ambient Temperature, °C				21
7	Fuel Gas Temperature, °C				45.1
8	Velocity,m/sec		IS 11255 (Part-3)		6.9
9	Samplling Point				14 m.
					<b>Contentration. ( mg / NM<sup>3</sup>)</b>
					<b>Limit as per E(P) Rules</b>
10	Particulate Matter (P.M.)		IS 11255 (Part-1)		<b>27.1</b> 150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )		IS 11255 (Part-2)		<b>Not detectable</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )		IS 11255 (Part-7)		<b>10.3</b> 710.00 mg/NM <sup>3</sup>

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- SE/13/129				Dated:16.11.2013		
(a)	Name and address			<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring og Stack Emission.		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
		<b>Parameters</b>		<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					Bag Filter at Fly ash Unloading Area
2	Height of Stack (as reported)				30 m	
3	Dia of Stack at Top(as reported)				1.05 m.	
4	Draft				ID Fan	
5	Material of Construction				M.S.	
6	Ambient Temperature, °C				18	
7	Fuel Gas Temperature, °C				46.3	
8	Velocity,m/sec			IS 11255 (Part-3)	7.5	
9	Samplling Point				14 m.	
					<b>Contentration.</b> <b>( mg / NM<sup>3</sup>)</b>	<b>Limit as per E(P) Rules</b>
10	Particulate Matter (P.M.)			IS 11255 (Part-1)	<b>26.1</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)	<b>10.7</b>	710.00 mg/NM <sup>3</sup>

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT						
Ref. No. ECO/P- SE/13/130				Dated:15.12.2013		
(a)	Name and address			<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring og Stack Emission.		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
		<b>Parameters</b>		<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					Bag Filter at Fly ash Unloading Area
2	Height of Stack (as reported)					30 m
3	Dia of Stack at Top(as reported)					1.05 m.
4	Draft					ID Fan
5	Material of Construction					M.S.
6	Ambient Temperature, °C					17
7	Fuel Gas Temperature, °C					43
8	Velocity,m/sec			IS 11255 (Part-3)		6.9
9	Samplling Point					14 m.
					<b>Contentration. ( mg / NM<sup>3</sup>)</b>	<b>Limit as per E(P) Rules</b>
10	Particulate Matter (P.M.)			IS 11255 (Part-1)	<b>27.1</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)	<b>12.5</b>	710.00 mg/NM <sup>3</sup>

## ECO CEMENTS LIMITED

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT														
Ref. No. ECO/P- SE/14/131				Dated:21.01.2014										
(a)	Name and address			ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua										
(b)	Report to be submitted to			Director										
(c)	Details of Sample			Monitoring og Stack Emission.										
(d)	No.& Type of container			Thimble & Glass Impinger										
(e)	Date of Sample													
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>								
1	Stack Connected to					Bag Filter at Fly ash Unloading Area								
2	Height of Stack (as reported)					30 m								
3	Dia of Stack at Top(as reported)					1.05 m.								
4	Draft					ID Fan								
5	Material of Construction					M.S.								
6	Ambient Temperature, °C					14								
7	Fuel Gas Temperature, °C					41.2								
8	Velocity,m/sec			IS 11255 (Part-3)		7.5								
9	Samplling Point					14 m.								
						<table border="1"> <thead> <tr> <th>Contentration. ( mg / NM<sup>3</sup>)</th> <th>Limit as per E(P) Rules</th> </tr> </thead> <tbody> <tr> <td>25.4</td> <td>150.00 mg/NM<sup>3</sup></td> </tr> <tr> <td>Not detectable</td> <td>Not specified</td> </tr> <tr> <td>11.3</td> <td>710.00 mg/NM<sup>3</sup></td> </tr> </tbody> </table>	Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules	25.4	150.00 mg/NM <sup>3</sup>	Not detectable	Not specified	11.3	710.00 mg/NM <sup>3</sup>
Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules													
25.4	150.00 mg/NM <sup>3</sup>													
Not detectable	Not specified													
11.3	710.00 mg/NM <sup>3</sup>													
10	Particulate Matter (P.M.)			IS 11255 (Part-1)		150.00 mg/NM <sup>3</sup>								
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)		Not specified								
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)		710.00 mg/NM <sup>3</sup>								

## ECO CEMENTS LIMITED

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

**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT					
Ref. No. ECO/P- SE/14/132			Dated:15.02.2014		
(a)	Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b)	Report to be submitted to		Director		
(c)	Details of Sample		Monitoring og Stack Emission.		
(d)	No.& Type of container		Thimble & Glass Impinger		
(e)	Date of Sample				
	<b>Parameters</b>		<b>Method of Test</b>	<b>Results</b>	
1	Stack Connected to			Bag Filter at Fly ash Unloading Area	
2	Height of Stack (as reported)			30 m	
3	Dia of Stack at Top(as reported)			1.05 m.	
4	Draft			ID Fan	
5	Material of Construction			M.S.	
6	Ambient Temperature, °C			19	
7	Fuel Gas Temperature, °C			46.1	
8	Velocity,m/sec		IS 11255 (Part-3)	7.7	
9	Samplling Point			14 m.	
				<b>Contentration. ( mg / NM<sup>3</sup>)</b>	<b>Limit as per E(P) Rules</b>
10	Particulate Matter (P.M.)		IS 11255 (Part-1)	<b>42.8</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )		IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )		IS 11255 (Part-7)	<b>9.6</b>	710.00 mg/NM <sup>3</sup>

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**Works** : 1644, Beriya Road, Kulharia,Durgawati, Bhabua( Kaimur), Bihar- 821105.

TEST REPORT					
Ref. No. ECO/P- SE/14/133			Dated:14.03.2014		
(a)	Name and address		<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to		Director		
(c)	Details of Sample		Monitoring og Stack Emission.		
(d)	No.& Type of container		Thimble & Glass Impinger		
(e)	Date of Sample				
	<b>Parameters</b>		<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to				Bag Filter at Fly ash Unloading Area
2	Height of Stack (as reported)				30 m
3	Dia of Stack at Top(as reported)				1.05 m.
4	Draft				ID Fan
5	Material of Construction				M.S.
6	Ambient Temperature, °C				18
7	Fuel Gas Temperature, °C				46
8	Velocity,m/sec		IS 11255 (Part-3)		6.7
9	Sampling Point				14 m.
					<b>Conteneration.</b> <b>( mg / NM<sup>3</sup>)</b>
					<b>Limit as per E(P) Rules</b>
10	Particulate Matter (P.M.)		IS 11255 (Part-1)		<b>28.2</b> 150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )		IS 11255 (Part-2)		<b>Not detectable</b> Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )		IS 11255 (Part-7)		<b>11.2</b> 710.00 mg/NM <sup>3</sup>

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TEST REPORT				
Ref. No. ECO/P- SE/13/122			Dated:17.10.2013	
(a)	Name and address		ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua	
(b)	Report to be submitted to		Director	
(c)	Details of Sample		Monitoring of Stack Emission	
(d)	No.& Type of container		Thimble & Glass Impinger	
(e)	Date of Sample			
	Parameters	Method of Test	Results	
1	Stack Connected to		Bag filter at Gypsum Unloading area	
2	Height of Stack (as reported)		30 m	
3	Dia of Stack at Top(as reported)		0.75 m	
4	Draft		I D Fan	
5	Material of Construction		M.S.	
6	Ambient Temperature, °C		28.4	
7	Fuel Gas Temperature, °C		54	
8	Velocity,m/sec	IS 11255 (Part-3)	5.6	
9	Samplling Point		9 m.	
			Contenatration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)	IS 11255 (Part-1)	<b>34.2</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )	IS 11255 (Part-7)	<b>10.1</b>	Not specified

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TEST REPORT					
Ref. No. ECO/P- SE/13/123			Dated:14.11.2013		
(a)	Name and address		<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to		Director		
(c)	Details of Sample		Monitoring of Stack Emission		
(d)	No.& Type of container		Thimble & Glass Impinger		
(e)	Date of Sample				
	<b>Parameters</b>		<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to				Bag filter at Gypsum Unloading area
2	Height of Stack (as reported)				30 m
3	Dia of Stack at Top(as reported)				0.75 m
4	Draft				I D Fan
5	Material of Construction				M.S.
6	Ambient Temperature, °C				28.4
7	Fuel Gas Temperature, °C				54
8	Velocity,m/sec		IS 11255 (Part-3)	5.6	
9	Samplling Point			9 m.	
				Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)		IS 11255 (Part-1)	<b>34.2</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )		IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )		IS 11255 (Part-7)	<b>10.1</b>	Not specified

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TEST REPORT						
Ref. No. ECO/P- SE/13/124				Dated:17.12.2013		
(a)	Name and address			ECO Cement Ltd. Vill.: mahmoodganj. At. Kulharia,Durgawati. Dist.: Bhabhua		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring of Stack Emission		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					Bag filter at Gypsum Unloading area
2	Height of Stack (as reported)					30 m
3	Dia of Stack at Top(as reported)					0.75 m
4	Draft					I D Fan
5	Material of Construction					M.S.
6	Ambient Temperature, °C					28.4
7	Fuel Gas Temperature, °C					54
8	Velocity,m/sec			IS 11255 (Part-3)	5.6	
9	Samplling Point				9 m.	
					Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)	<b>34.2</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)	<b>10.1</b>	Not specified

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TEST REPORT					
Ref. No. ECO/P- SE/14/125			Dated:16.01.2014		
(a)	Name and address		<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to		Director		
(c)	Details of Sample		Monitoring of Stack Emission		
(d)	No.& Type of container		Thimble & Glass Impinger		
(e)	Date of Sample				
	<b>Parameters</b>		<b>Method of Test</b>	<b>Results</b>	
1	Stack Connected to			Bag filter at Gypsum Unloading area	
2	Height of Stack (as reported)			30 m	
3	Dia of Stack at Top(as reported)			0.75 m	
4	Draft			I D Fan	
5	Material of Construction			M.S.	
6	Ambient Temperature, °C			28.4	
7	Fuel Gas Temperature, °C			54	
8	Velocity,m/sec		IS 11255 (Part-3)	5.6	
9	Samplling Point			9 m.	
				Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)		IS 11255 (Part-1)	<b>34.2</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )		IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )		IS 11255 (Part-7)	<b>10.1</b>	Not specified

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TEST REPORT					
Ref. No. ECO/P- SE/14/126			Dated:18.02.2014		
(a)	Name and address		<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to		Director		
(c)	Details of Sample		Monitoring of Stack Emission		
(d)	No.& Type of container		Thimble & Glass Impinger		
(e)	Date of Sample				
	<b>Parameters</b>		<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to				Bag filter at Gypsum Unloading area
2	Height of Stack (as reported)				30 m
3	Dia of Stack at Top(as reported)				0.75 m
4	Draft				I D Fan
5	Material of Construction				M.S.
6	Ambient Temperature, °C				28.4
7	Fuel Gas Temperature, °C				54
8	Velocity,m/sec		IS 11255 (Part-3)	5.6	
9	Samplling Point			9 m.	
				Concentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)		IS 11255 (Part-1)	<b>34.2</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )		IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )		IS 11255 (Part-7)	<b>10.1</b>	Not specified

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TEST REPORT						
Ref. No. ECO/P- SE/14/127				Dated:13.03.2014		
(a)	Name and address			<b>ECO Cement Ltd.</b> <b>Vill.: mahmoodganj.</b> <b>At. Kulharia,Durgawati.</b> <b>Dist.: Bhabhua</b>		
(b)	Report to be submitted to			Director		
(c)	Details of Sample			Monitoring of Stack Emission		
(d)	No.& Type of container			Thimble & Glass Impinger		
(e)	Date of Sample					
	<b>Parameters</b>			<b>Method of Test</b>		<b>Results</b>
1	Stack Connected to					Bag filter at Gypsum Unloading area
2	Height of Stack (as reported)					30 m
3	Dia of Stack at Top(as reported)					0.75 m
4	Draft					I D Fan
5	Material of Construction					M.S.
6	Ambient Temperature, °C					28.4
7	Fuel Gas Temperature, °C					54
8	Velocity,m/sec			IS 11255 (Part-3)	5.6	
9	Sampling Point				9 m.	
					Contentration. ( mg / NM <sup>3</sup> )	Limit as per E(P) Rules
10	Particulate Matter (P.M.)			IS 11255 (Part-1)	<b>34.2</b>	150.00 mg/NM <sup>3</sup>
11	Sulphur Dioxide (SO <sub>2</sub> )			IS 11255 (Part-2)	<b>Not detectable</b>	Not specified
12	Oxides of Nitrogen (NO <sub>2</sub> )			IS 11255 (Part-7)	<b>10.1</b>	Not specified

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