

HCIL(NGH)-ENV-F-101/2021/

The Member Secretary
M.P. Pollution Control Board
Paryavaran Parishar,
E-5, Arera Colony, Bhopal – 462016

Diamond Cements
Prop: HeidelbergCement India Limited
 CIN: L26942HR1958FLC042301

Village and P. O. Narsingarh
 District Damoh, M.P. 470 675,
 India
 Phone +91-07601-241301, 02 & 05
 Fax +91-07601-241235

Mar 05, 2021**Sub.: Monthly Environmental Monitoring Reports for Feb 2021**

Sir,

Please find enclosed herewith the Environmental Monitoring Report of the following for the month of **Feb- 2021**

S. No.	Name of Plant / Mines	Monitoring Details
1.	Clinkerisation Unit, Narsingarh (including WHRPP)	Ambient Air Quality Monitoring including Ambient Noise Monitoring, Stack Monitoring, D.G. Stacks, STP Water Quality Analysis Report, ETP Water Quality Analysis Report, Performance of ESPs & Bag Houses, Energy meter reading, Online monitoring data of CAAQMS.
2.	Grinding Unit, Imlai	Ambient Air Quality Monitoring including Ambient Noise Monitoring, Stack Monitoring, STP Water Quality Analysis Report, Performance of Bag Houses, Energy meter reading and Online monitoring data of CAAQMS.
3.	Lime Stone Mines, Patharia	Ambient Air Quality Monitoring including Ambient Noise Monitoring, Stack Monitoring, Waste water Quality Analysis Reports, and Mine Pit water Analysis Report, Online monitoring data of CAAQMS.

This is submitted for your kind perusal please.

Thanking you,

Yours faithfully,
 For Diamond Cements
 (Prop.: HeidelbergCement India Ltd.)


 Sandeep Kumar Tiwari
 Manager – Environment

Encl: as above

CC: The Zonal Officer (Central),
 Central Pollution Control Board, E-5, Link Rd Number 3, Ekant Park, Arera Colony, Bhopal, Madhya Pradesh 462016

CC: The Regional Officer
 MP Pollution Control Board, Deen Dayal Nagar, Housing Board Colony, Sagar (MP)

CC: Sr. G.M. Mines – For kind information & record please

CC: VP (T) Imlai – For kind information & record please

CC: Office Copy



ENVIRONMENTAL MONITORING REPORT

of

M/s Diamond Cements
(Prop. HeidelbergCement India Limited)
Village & Post: Narsingarh,
District : Damoh

for

February, 2021

Prepared by:



Certificate No.: T-2202

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Ecomen Laboratories Pvt. Ltd.

(An approved Laboratory from NABL & MoEF&CC)

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Aliganj, Lucknow 226024 (U.P)

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An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. : ECO/QS/D/FORMAT/01
REV. NO. : 00

TEST REPORT NO. : ECO LAB/D/A:05-08 & M:05-08/02/21
ISSUE DATE : 27.02.2021

Month: February. 2021

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Name of Plant/Mines :

M/s Diamond Cements -Clinkerisation Unit
(Prop. HeidelbergCement India Limited), Narsingarh, Damoh (M.P.)

AAQMS	Date/ Time*	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	Time	CO (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
		03.02.2021	04.02.2021		03.02.2021	03.02.2021	03.02.2021
Near Hospital	06.00 am	30.33	45.76	08:00 am to 10:00 am	340	9.73	10.56
				10:00 am to 02:00 pm		9.10	12.64
				02:00 pm to 06:00 pm	350	9.16	10.93
				06:00 pm to 10:00 pm		10.85	11.94
				10:00 pm to 02:00 am	360	8.49	12.64
				02:00 am to 06:00 am		9.19	12.06
				Average Value	350	9.42	11.80
Near Gate of Mine Pit No.1	06.00 am	34.57	48.47	08:20 am to 10:20 am	330	10.16	12.46
				10:20 am to 02:20 pm		11.28	13.21
				02:20 pm to 06:20 pm	370	11.35	13.72
				06:20 pm to 10:20 pm		9.65	12.58
				10:20 pm to 02:20 am	350	10.09	12.81
				02:20 am to 06:20 am		10.21	11.83
				Average Value	350	10.46	12.77
Near STP Area	06.00 am	33.72	53.46	06:40 am to 10:40 am	340	9.68	10.74
				10:40 am to 02:40 pm		10.90	11.06
				02:40 pm to 06:40 pm	330	11.00	13.26
				06:40 pm to 10:40 pm		11.64	11.82
				10:40 pm to 02:40 am	350	11.35	11.77
				02:40 am to 06:40 am		10.93	12.50
				Average Value	340	10.92	11.88
Near Worker Colony	06.00 am	32.79	51.53	07:00 am to 11:00 am	330	9.69	12.09
				11:00 am to 03:00 pm		9.65	10.49
				03:00 pm to 07:00 pm	370	10.44	9.97
				07:00 pm to 11:00 pm		11.46	10.25
				11:00 pm to 03:00 am	380	10.62	12.09
				03:20 am to 07:00 am		9.88	12.61
				Average Value	380	10.26	11.25

Air (Ambient Standard) - The Environment (Protection) Rules, 1986 [NAAQMS]

S.NO.	Standard	Time	PM 2.5	PM 10	SO ₂	NO ₂	CO
1	(µg/m ³)	24 hours	60	100	80	80	2000
2		Annual	40	60	50	40	-

* Time mentioned above is the Initial Time of Sampling.

SO₂ BDL<4.0 (µg/m³) and NO₂ BDL<6.1 (µg/m³)

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An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

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TEST REPORT NO. : ECO LAB/D/A:09-12 & M:09-12/02/21
ISSUE DATE : 27.02.2021

Month: February. 2021

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Name of Plant/Mines :

M/s Diamond Cements -Grinding Unit
(Prop. HeidelbergCement India Limited), Imilal, Damoh (M.P.)

AAQMS	Date/ Time*	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	Time	CO (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	
		16.02.2021	17.02.2021		17.02.2021	17.02.2021	17.02.2021	17.02.2021
Near Admin Bld.	06.00 am	28.44	43.56	06:00 am to 10:00 am	370	7.29	11.27	
				10:00 am to 02:00 pm		9.12	12.91	
				02:00 pm to 06:00 pm		9.01	11.83	
				06:00 pm to 10:00 pm	380	9.33	11.94	
				10:00 pm to 02:00 am		370	10.33	11.97
				02:00 am to 06:00 am			9.68	13.28
				Average Value	373	9.13	12.20	
Near Water Storage Tank (Behind D.G. Set)	06.00 am	36.55	52.48	06:20 am to 10:20 am	390	9.56	14.31	
				10:20 am to 02:20 pm		9.05	13.51	
				02:20 pm to 06:20 pm	380	11.02	13.95	
				06:20 pm to 10:20 pm		10.28	14.81	
				10:20 pm to 02:20 am	400	10.38	14.15	
				02:20 am to 06:20 am		10.11	13.91	
				Average Value	390	10.07	14.08	
Near Railway Siding	06.00 am	38.71	55.60	06:40 am to 10:40 am	380	9.77	14.90	
				10:40 am to 02:40 pm		10.05	13.24	
				02:40 pm to 06:40 pm	390	10.44	14.46	
				06:40 pm to 10:40 pm		9.85	13.31	
				10:40 pm to 02:40 am	370	7.88	14.83	
				02:40 am to 06:40 am		10.28	12.48	
				Average Value	380	9.68	13.87	
Near Worker Colony	06:00 am	29.58	50.14	07:00 am to 11:00 am	390	9.10	13.31	
				11:00 am to 03:00 pm		9.80	12.37	
				03:00 pm to 07:00 pm	380	9.01	12.75	
				07:00 pm to 11:00 pm		9.35	14.08	
				11:00 pm to 03:00 am	370	8.57	13.24	
				03:20 am to 07:00 am		7.88	13.80	
				Average Value	380	8.95	13.26	

Air (Ambient Standard) - The Environment (Protection) Rules, 1986 [NAAQMS]							
S.NO.	Standard	Time	PM 2.5	PM 10	SO2	NO2	CO
1	(µg/m ³)	24 hours	60	100	80	80	2000
2		Annual	40	60	50	40	-

* Time mentioned above is the initial Time of Sampling.

SO₂ BDL < 4.0 (µg/m³) and NO₂ BDL < 5.1 (µg/m³)

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TEST REPORT NO. : ECO LAB/D/A:01-04 & M:01-04/02/21
ISSUE DATE : 27.02.2021

Month: February, 2021

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Name of Plant/Mines :

Lime Stone Mines, Patharla-Diamond Cements
(Prop. HeidelbergCement India Limited), Damoh (M.P.)

AAQMS	Date/ Time*	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	Time	CO (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	
		01.02.2021	02.02.2021		02.02.2021	02.02.2021	02.02.2021	02.02.2021
Near Main Office	06.00 am	31.56	44.38	06:00 am to 10:00 am	380	9.03	9.53	
				10:00 am to 02:00 pm		8.45	10.49	
				02:00 pm to 06:00 pm		9.61	8.81	
				06:00 pm to 10:00 pm	350	10.91	10.30	
				10:00 pm to 02:00 am		360	9.73	12.60
				02:00 am to 06:00 am			7.62	12.58
				Average Value	363	9.22	10.72	
Near Back Filling Area	06.00 am	35.48	54.72	06:20 am to 10:20 am	340	11.02	12.30	
				10:20 am to 02:20 pm		10.38	12.27	
				02:20 pm to 06:20 pm		360	11.82	12.64
				06:20 pm to 10:20 pm	350	9.68	12.15	
				10:20 pm to 02:20 am		10.33	12.28	
				02:20 am to 06:20 am		9.74	12.06	
				Average Value	350	10.50	12.28	
Near Mine Pit	06.00 am	39.38	56.51	06:40 am to 10:40 am	340	9.19	12.30	
				10:40 am to 02:40 pm		8.41	12.52	
				02:40 pm to 06:40 pm		380	9.73	12.44
				06:40 pm to 10:40 pm	340	10.38	12.74	
				10:40 pm to 02:40 am		18.07	13.16	
				02:40 am to 06:40 am		10.24	12.21	
				Average Value	357	11.00	12.56	
Near Temple	06.00 am	38.49	55.55	07:00 am to 11:00 am	360	11.00	10.38	
				11:00 am to 03:00 pm		12.16	2.21	
				03:00 pm to 07:00 pm		350	12.73	11.71
				07:00 pm to 11:00 pm	340	11.64	11.59	
				11:00 pm to 03:00 am		11.36	11.70	
				03:20 am to 07:00 am		10.31	10.77	
				Average Value	350	11.53	9.73	

Air (Ambient Standard) - The Environment (Protection) Rules, 1986 [NAAQMS]							
S.NO.	Standard	Time	PM 2.5	PM 10	SO2	NO2	CO
1	(µg/m ³)	24 hours	60	100	80	80	2000
2		Annual	40	60	50	40	-

* Time mentioned above is the Initial Time of Sampling.

SO₂ BDL < 4.0 (µg/m³) and NO₂ BDL < 6.1 (µg/m³)

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ISSUE DATE : 27.02.2021

Month: February. 2021

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Name of Plant/Mines :

Lime Stone Mines, Patharfa-Diamond Cements
(Prop. HeidelbergCement India Limited), Damoh (M.P.)

AQMS	Date/ Time*	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	Time	CO ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
		18.02.2021	19.02.2021		19.02.2021	19.02.2021	19.02.2021
Near Main Office	06.00 am	25.62	47.74	06:00 am to 10:00 am	350	10.41	12.06
				10:00 am to 02:00 pm		9.16	12.27
				02:00 pm to 06:00 pm	360	9.21	13.04
				06:00 pm to 10:00 pm		8.41	12.52
				10:00 pm to 02:00 am	330	8.57	12.37
				02:00 am to 06:00 am		9.23	14.28
				Average Value	347	9.17	12.75
Near Back Filling Area	06.00 am	38.56	57.80	06:20 am to 10:20 am	350	10.38	14.39
				10:20 am to 02:20 pm		11.60	13.72
				02:20 pm to 06:20 pm	360	10.33	13.85
				06:20 pm to 10:20 pm		9.70	13.93
				10:20 pm to 02:20 am	340	10.07	13.75
				02:20 am to 06:20 am		9.01	13.45
				Average Value	350	10.18	13.85
Near Mine Pit	06.00 am	40.46	58.25	06:40 am to 10:40 am	330	9.80	13.95
				10:40 am to 02:40 pm		12.22	14.40
				02:40 pm to 06:40 pm	360	12.19	13.41
				06:40 pm to 10:40 pm		11.85	13.61
				10:40 pm to 02:40 am	390	11.02	13.48
				02:40 am to 06:40 am		10.74	12.13
				Average Value	360	11.30	13.50
Near Temple	06.00 am	26.49	46.32	07:00 am to 11:00 am	350	8.53	12.24
				11:00 am to 03:00 pm		9.19	12.30
				03:00 pm to 07:00 pm	360	8.55	13.45
				07:00 pm to 11:00 pm		8.96	13.15
				11:00 pm to 03:00 am	390	10.41	13.01
				03:20 am to 07:00 am		10.46	13.10
				Average Value	367	9.35	12.87

Air (Ambient Standard) - The Environment (Protection) Rules, 1986 [NAAQMS]							
S.NO.	Standard	Time	PM 2.5	PM 10	SO2	NO2	CO
1	($\mu\text{g}/\text{m}^3$)	24 hours	60	100	80	80	2000
2		Annual	40	60	50	40	-

* Time mentioned above is the Initial Time of Sampling.

SO₂ BDL < 4.0 ($\mu\text{g}/\text{m}^3$) and NO₂ BDL < 8.1 ($\mu\text{g}/\text{m}^3$)

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TEST REPORT NO. : ECO LAB/D/N:01/02/21
ISSUE DATE: 27.02.2021

Month : February 2021

TEST REPORT OF AMBIENT NOISE MONITORING

Name of Plant/Mines : M/s Diamond Cements - Clinkerisation -Clinkersiation Unit
(Prop. Heidelberg Cement India Limited), Narsingarh, Damoh (M.P.)

Date of Monitoring : 04.02.2021

Sl. No.	Location	Leq Value in dB(A)	
		Day Time	Night Time
1.	Near Hospital	50.3	42.5
2.	Near Gate of Mine Pit No.1	61.5	59.7
3.	Near STP Area	63.5	59.4
4.	Near Worker Colony	51.4	40.7

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Noise (Ambient Standard) - Noise Pollution (Prevention & Control) Rules, 2000

Area Code	Category of area	Limit in dB(A)-Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note:

1	Day time is reckoned in between 8:00 AM and 10:00 PM.
2	Night time is reckoned in between 10:00 PM and 6:00 AM
3	Silence zone is defined as area up to 100m around such premises as hospitals, educational institutions & courts. The silence zones are to be declared by a competent authority.
4	Mixed categories of areas should be declared as one of the four above-mentioned categories by the competent authority and the corresponding standard shall apply.

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TEST REPORT NO. : ECO LAB/D/N:02/02/21
ISSUE DATE: 27.02.2021

Month: : February 2021

TEST REPORT OF AMBIENT NOISE MONITORING

Name of Plant/Mines : M/s Diamond Cements -Grinding Unit
(Prop. Heidelberg Cement India Limited), Imilal, Damoh (M.P.)

Date of Monitoring : 17.02.2021

Sl. No.	Location	Leq Value in dB(A)	
		Day Time	Night Time
1.	Near ADM Bld.	57.1	50.4
2.	Near Worker Colony	50.8	45.7
3.	Near Railway Siding	65.4	61.5
4.	Near Water Storage Tank (Behind D.G.Set)	61.4	57.3

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Noise (Ambient Standard) - Noise Pollution (Prevention & Control) Act, 2002

Area Code	Category of area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note:

1	Day time is reckoned in between 6:00 AM and 10:00 PM.
2	Night time is reckoned in between 10:00 PM and 6:00 AM
3	Silence zone is defined as area up to 100m around such premises as hospitals, educational institutions & courts. The silence zones are to be declared by a competent authority.
4	Mixed categories of areas should be declared as one of the four above-mentioned categories by the competent authority and the corresponding standard shall apply.

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FORMAT NO. : ECO/QS/D/FORMAT/02

REV. NO. : 00

TEST REPORT NO : ECO LAB/D/N:03/02/21

ISSUE DATE: 27.02.2021

Month: : February 2021

TEST REPORT OF AMBIENT NOISE MONITORING

Name of Plant/Minea :

Lime Stone Mines, Patharia- Diamond Cements
(Prop. Heidelberg Cement India Limited), Damoh (M.P.)

Date of Monitoring :

19.02.2021

Sl. No.	Location	Leq Value in dB(A)	
		Day Time	Night Time
1.	Near Main Office	58.7	52.4
2.	Near Back Filling Area	51.5	48.6
3.	Near Mine Pit	62.4	59.8
4.	Near Temple	55.0	51.2

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Noise (Ambient Standard) - Noise Pollution (Prevention & Control) Act, 2002

Area-Code	Category of area	Limit in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note:

1	Day time is reckoned in between 6:00 AM and 10:00 PM.
2	Night time is reckoned in between 10:00 PM and 6:00 AM
3	Silence zone is defined as area up to 100m around such premises as hospitals, educational institutions & courts. The silence zones are to be declared by a competent authority.
4	Mixed categories of areas should be declared as one of the four above-mentioned categories by the competent authority and the corresponding standard shall apply.

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FORMAT NO. : ECO/QS/D/FORMAT/03
REV. NO. : 00TEST REPORT NO. : ECO LAB/D/S:16,03&,01/02/21
ISSUE DATE : 27.02.2021

Month: February 2021

TEST REPORT OF STACK MONITORING

Name of Plant/Mines :

M/s Diamond Cements -Clinkerisation Unit
(Prop. HeidelbergCement India Limited), Narsingarh, Damoh (M.P.)

Location	S-1	S-2	S-3
Date of Monitoring	25.02.2021	03.02.2021	01.02.2021
Stack Details			
Material of Construction (Stack/Duct)	M.S.	M.S.	M.S.
Stack Attached to	Coal Mill No-1	Coal Mill No-2	Coal Mill No-3
Name of Air Pollution Control Device	Bag House	Bag House	Bag House
Stack Height above the Groundlevel (m)	30.4	37	72.7
Stack Top	Circular	Circular	Circular
Inside Diameter of Stack (m)	1.45	1.45	2.12
Cross sectional area of Duct/Stack (m ²)	1.65	1.65	3.53
Ambient Temp (°C)	25	20	20
Stack Gas Temp (°C)	58	60	76
Exit Velocity of Gas (m/sec.)	4.46	6.33	7.20
Flow Rate (Nm ³ / sec.)	6.24	8.70	19.89
Lab Testing			
Particulate Matter(PM) (mg/Nm ³) (Isokinetic Samples)	10.6	15.8	12.7

Stack Emission Standard = 30 mg/NM³

* Plant was under Planned shutdown, Hence Stack Monitoring could not be conducted.

Note:

- S-1 : Coal Mill No-1
- S-2 : Coal Mill No-2
- S-3 : Coal Mill No-3

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TEST REPORT NO. : ECO LAB/D/S:10,08 & 02/02/21
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Month: February 2021

TEST REPORT OF STACK MONITORING

Name of Plant/Mines : M/s Diamond Cements -Clinkerisation Unit
(Prop. HeidelbergCement India Limited), Narsingarh, Damoh (M.P.)

Location	S-4	S-5	S-6
Date of Monitoring	22.02.2021	10.02.2021	02.02.2021
Stack Details			
Material of Construction (Stack/Duct)	M.S.	M.S.	M.S.
Stack Attached to	Kiln / Raw Mill No-1	Kiln / Raw Mill No-2	Kiln / Raw Mill No-3
Name of Air Pollution Control Device	Hybrid Filter	Hybrid Filter	RABH
Stack Height above the Groundlevel (m)	76.4	98	110
Stack Top	Circular	Circular	Circular
Inside Diameter of Stack (m)	2.4	2.65	4.5
Cross sectional area of Duct/Stack (m ²)	4.52	5.51	15.90
Ambient Temp (°C)	25	25	21
Stack Gas Temp (°C)	160	126	159
Exit Velocity of Gas (m/sec.)	20.9	16.74	16.16
Flow Rate (Nm ³ / sec.)	61.91	64.1	165.46
Test Conducted			
Particulate Matter(PM) (mg/Nm ³) (Isokinetic Samples)	18	16.2	13.7
Oxygen (O ₂) (%)	11.5	7.8	7.4
Sulphur Dioxide (SO ₂)	(mg/Nm ³)	9.5	13.6
	at 10 % O ₂ Correction (mg/Nm ³)	11.0	11.3
Nitrogen Dioxides (NO _x)	(mg/Nm ³)	560.6	615.7
	at 10 % O ₂ Correction (mg/Nm ³)	649.1	513.1
Standard			
PM	-	30 mg/Nm ³	
SO ₂	-	100 mg/Nm ³ at 10 % O ₂	
NO _x	-	800 mg/Nm ³ at 10 % O ₂	

Note: * Plant was under Planned shutdown, Hence Stack Monitoring could not be conducted.

S-4 : Kiln / Raw Mill No-1

S-5 : Kiln / Raw Mill No-2

S-6 : Kiln / Raw Mill No-3

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ISSUE DATE: : 27.02.2021

Month: February 2021

TEST REPORT OF STACK MONITORING

Name of Plant/Mines : M/s Diamond Cements -Clinkerisation Unit
(Prop. HeidelbergCement India Limited), Narsingarh, Damoh (M.P.)

Location	S-7	S-8	S-9	S-10
Date of Monitoring	22.02.2021	04.02.2021	23.02.2021	20.02.2021
Stack Details				
Material of Construction (Stack/Duct)	M.S.	M.S.	M.S.	M.S.
Stack Attached to	Clinker Cooler No-1	Clinker CoolerNo-2	Clinker Cooler No-3	Crusher
Name of Air Pollution Control Device	ESP	ESP	ESP	Bag House
Stack Height above the Groundlevel (m)	40	44.45	45.6	17
Stack Top	Circular	Circular	Circular	Circular
Inside Diameter of Stack (m)	2.976	3.75	3.75	0.8
Cross sectional area of Duct/Stack (m ²)	6.95	11.05	11.05	0.282
Ambient Temp (°C)	20	24	24	25
Stack Gas Temp (°C)	208	107	128	28
Exit Velocity of Gas (m/sec.)	12.88	6.87	11.02	6.86
Flow Rate (Nm ³ / sec.)	53.03	57.07	86.69	3.26
Particulate Matter(PM) (mg/Nm ³) (Isokinetic Samples)	20.7	14.3	19.4	22.1

Stack Emission Standard = 30 mg/NM3

* Plant was under Planned shutdown, Hence Stack Monitoring could not be conducted.

Note:

S-7 : Clinker Cooler No-1

S-8 : Clinker Cooler No-2

S-9 : Clinker Cooler No-3

S-10 : Crusher

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ISSUE DATE: : 27.02.2021

Month: February 2021

TEST REPORT OF STACK MONITORINGName of Plant/Mines : M/s Diamond Cements -Grinding Unit
(Prop. HeidelbergCement India Limited), Imlai, Damoh (M.P.)

Location	S-1	S-2	S-3
Date of Monitoring	08.02.2021	08.02.2021	08.02.2021
Stack Details			
Material of Construction (Stack/Duct)	M.S.	M.S.	M.S.
Stack Attached to	Cement Mill No-1	Cement Mill No-2	Cement Mill No-3
Name of Air Pollution Control Device	Bag House	Bag House	Bag House
Stack Height above the Groundlevel (m)	38	37.5	51
Stack Top	Circular	Circular	Circular
Inside Diameter of Stack (m)	1.45	1.5	1.12
Cross sectional area of Duct/Stack (m ²)	1.65	1.77	0.985
Ambient Temp (°C)	26	25	27
Stack Gas Temp (°C)	70	74	90
Exit Velocity of Gas (m/sec.)	5.72	7.04	14.26
Flow Rate (Nm ³ / sec.)	7.74	10.03	11.05
(Test Conducted)			
Particulate Matter(PM) (mg/Nm ³) (Isokinetic Samples)	13.4	9.5	11.2

Stack Emission Standard = 30 mg/NM³

* Plant was under Planned shutdown, Hence Stack Monitoring could not be conducted.

Note:

- S-1 ; Cement Mill No-1
- S-2 ; Cement Mill No-2
- S-3 ; Cement Mill No-3

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TEST REPORT OF STACK MONITORINGName of Plant/Mines : M/s Diamond Cements -Grinding Unit
(Prop. HeidelbergCement India Limited), Imlai, Damoh (M.P.)

Location	S-4	
Date of Monitoring	25.02.2021	
Stack Details		
Material of Construction (Stack/Duct)	M.S.	
Stack Attached to	Packing Plant No-3	
Name of Air Pollution Control Device	Bag House	
Stack Height above the Groundlevel (m)	30	
Stack Top	Circular	
Inside Diameter of Stack (m)	0.53	
Cross sectional area of Duct/Stack (m ²)	0.22	
Ambient Temp (°C)	23	
Stack Gas Temp (°C)	30	
Exit Velocity of Gas (m/sec.)	23.16	
Flow Rate (Nm ³ / sec.)	4.85	
(Test Conducted)		
Particulate Matter(PM) (mg/Nm ³ Samples)	(Isokinetic	23.2

Stack Emission Standard = 30 mg/NM³**Note:**

S-4 : Packer No-3

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TEST REPORT NO. : ECO LAB/D/S:12/02/21
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Month: February 2021

TEST REPORT OF STACK MONITORING

Name of Plant/Mines : Lime Stone Mines, Patharia-Diamond Cements
(Prop. HeidelbergCement India Limited), Damoh (M.P.)

Location	S-01
Date of Monitoring	23.02.2021
Stack Details	
Material of Construction (Stack/Duct)	M.S.
Stack Attached to	Crusher
Name of Air Pollution Control Device	Bag House
Stack Height above the Groundlevel (m)	30
Stack Top	Circular
Inside Diameter of Stack (m)	1.5
Cross sectional area of Duct/Stack (m ²)	1.77
Ambient Temp (°C)	27
Stack Gas Temp (°C)	33
Exit Velocity of Gas (m/sec.)	11.88
Flow Rate (Nm ³ / sec.)	19.69
(Test Conducted)	
Particulate Matter(PM) (mg/Nm ³) (Isokinetic Samples)	24.1

Stack Emission Standard = 30 mg/NM³

Note:

S-1 : Crusher

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ISSUE DATE: 27.02.2021

Month: February 2021

TEST REPORT OF STACK MONITORINGName of Plant/Mines : M/s Diamond Cements -Clinkerisation Unit
(Prop. HeidelbergCement India Limited), Narsingarh, Damoh (M.P.)

Location	New DG Set 1500 KVA
Date of Monitoring	24.02.2021
Stack Details	
Material of Construction (Stack/Duct)	M.S.
Stack Attached to	DG Set
Capacity (KVA)	1500
Stack Height above the Groundlevel (m)	30
Stack Top	Circular
Inside Diameter of Stack (m)	0.4
Cross sectional area of Duct/Stack (m ²)	0.126
Ambient Temp (°C)	27
Stack Gas Temp (°C)	128
Exit Velocity of Gas (m/sec.)	7.91
Flow Rate (Nm ³ / sec.)	0.708
Type of Fuel	HSD
Quantity of Fuel Consumption (Lit/Hr.)	300
Type of Firing	Automatic
Lab Tasting	
Test Conducted	
Particulate Matter (PM) (mg/Nm ³) (Isokinetic Samples)	23.5
Nitrogen Dioxide NO ₂ (at 15%O ₂), ppm (v)	428
NMHC (as C) (at 15%O ₂), mg/Nm ³	36.7
CO (at 15%O ₂), mg/Nm ³	88

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FORMAT NO. : ECO/QS/D/FORMAT/08
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TEST REPORT NO. : ECO LAB/D/ELW:14151-14152/02/21
ISSUE DATE : 27.02.2021

Month: February 2021

TEST REPORT OF WASTE WATER ANALYSIS

Name of Plant/Mines : M/s Diamond Cements -Clinkerisation Unit
(Prop. Heidelbergcemen India Limited),Narsingarh Damoh (M.P.)
Date of Sample Collection : 22.02.2021
Source of Sample : Sewage Treatment Plant (STP)

Sl. No.	Parameters	Result		PCB Standards
		STP Inlet	STP Outlet	
1	pH	7.55	7.42	5.5 - 9.0
2	Total Suspended Solid (TSS)	380.5	6.5	10.0
3	Total Dissolved Solid (TDS)	801.6	325.4	-
4	Biochemical Oxygen Demand (3 days at 27 °C)	168.5	6.9	10.0
5	Chemical Oxygen Demand (COD)	64.5	25.6	50.0
6	Oil & Grease (O&G)	1.5	BDL	10.0
7	Sodium Adsorption Ratio (SAR)	1.9	0.72	-
8	Fecal Coliform (FC) MPN/100ml	-	76	1000

Note: All parameters are in mg/l except pH and SAR

Oil & Grease BDL < 1.0 (mg/l)

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FORMAT NO. : ECO/QS/D/FORMAT/06
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TEST REPORT NO. : ECO LAB/D/ELW:14153-14154/02/21
ISSUE DATE : 27.02.2021

Month: February 2021

TEST REPORT OF WASTE WATER ANALYSIS

Name of Plant/Mines : M/s Diamond Cements -Grinding Unit
(Prop. HeidelbergCement India Limited), Imlai, Damoh (M.P.)

Date of Sample Collection : 22.02.2021

Source of Sample : Sewage Treatment Plant (STP)

Sl. No.	Parameters	Result		PCB Standards
		STP Inlet	STP Outlet	
1	pH	7.59	7.42	5.5 - 9.0
2	Total Suspended Solid (TSS)	350.3	7.7	10.0
3	Total Dissolved Solid (TDS)	385.6	250.4	-
4	Biochemical Oxygen Demand (3 days at 27 °C)	192.4	8.1	10.0
5	Chemical Oxygen Demand (COD)	402.5	23.7	50.0
6	Oil & Grease (O&G)	1.7	BDL	10.0
7	Sodium Adsorption Ratio (SAR)	1.9	1.1	-
8	Fecal Coliform (FC) MPN/100ml	-	71	1000

Note: All parameters are in mg/l except pH and SAR

Oil & Grease BDL < 1.0 (mg/l)

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TEST REPORT NO. : ECO LAB/D/ELW:14155/02/21
ISSUE DATE : 27.02.2021

Month: February 2021

TEST REPORT OF WASTE WATER ANALYSIS

Name of Plant/Mines : Lime Stone Mines, Patharla-Diamond Cements
(Prop. HeidelbergCement India Limited), Damoh (M.P.)

Date of Sample Collection : 22.02.2021

Source of Sample : Septic tank

Sl. No.	Parameters	Result	PCB Standards
1	pH	7.2	5.5 - 9.0
2	Total Suspended Solid (TSS)	7.7	10.0
3	Total Dissolved Solid (TDS)	449.8	-
4	Biochemical Oxygen Demand (3 days at 27 °C)	7.9	10.0
5	Chemical Oxygen Demand (COD)	24.2	50.0
6	Oil & Grease (O&G)	BDL	10.0
7	Chloride(Cl)	41	1000.0

Note: All parameters are in mg/l except pH and SAR

Oil & Grease BDL < 1.0 (mg/l)

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REV. NO. : 00

TEST REPORT NO. : ECO LAB/D/ELW:14156/02/21
ISSUE DATE : 27.02.2021

Month: February 2021

TEST REPORT OF WASTE WATER ANALYSIS

Name of Plant/Mines : Lime Stone Mines, Patharfa-Diamond Cements
(Prop. HeidelbergCement India Limited), Damoh (M.P.)
Date of Sample Collection : 22.02.2021
Source of Sample : Oil & Grease Trap

Sl. No.	Parameters	Result	PCB Standards
1	pH	7.3	5.5 - 9.0
2	Total Suspended Solid (TSS)	7.6	10
3	Total Dissolved Solid (TDS)	386.5	-
4	Biochemical Oxygen Demand (3 days at 27 °C)	7.5	10
5	Chemical Oxygen Demand (COD)	22.8	50
6	Oil & Grease (O&G)	BDL	10

Note: All parameters are in mg/l except pH and SAR

Oil & Grease BDL < 1.0 (mg/l)

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FORMAT NO. : ECO/QS/D/FORMAT/06
REV. NO. : 00

TEST REPORT NO. : ECO LAB/D/ELW:14167/02/21
ISSUE DATE : 27.02.2021

Month: February 2021

TEST REPORT OF WATER ANALYSIS

Name of Plant/Mines : Lime Stone Mines, Patharia-Diamond Cements
(Prop. HeidelbergCement India Limited), Damoh (M.P.)

Date of Sample Collection : 22.02.2021

Source of Sample : Mine Pit

Sl. No.	Parameters	Result
1	pH	7.5
2	Suspended Solid	88.2
3	Total Dissolved Solid (TDS)	378.6
4	Total Hardness as CaCO ₃	441
5	Oil & Grease (O&G)	BDL
6	Fluoride as F	0.08
7	Calcium as CaCO ₃	272.6
8	Magnesium as CaCO ₃	168
9	Sodium as Na	14.8
10	Total Alkalinity	28.7
11	Potassium	1.8
12	Chloride as Cl	12.7
13	Total Organic Carbon (TOC)	1.5

Note: All parameters are in mg/l except pH

Oil & Grease BDL < 1.0 (mg/l)

Checked by
Arif

Page No. 19

Reenu
Authorized Signatory
Ecomen Laboratories Pvt. Ltd.
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An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. : ECO/QS/D/FORMAT/06
REV. NO. : 00

TEST REPORT NO. : ECO LAB/D/ELW:14158/02/21
ISSUE DATE : 27.02.2021

Month: February 2021

TEST REPORT OF WASTE WATER ANALYSIS

Name of Plant/Mines

(Prop. Heidelbergcemen India Limited),Narsingarh Damoh (M.P.)

Date of Sample Collection

: 22.02.2021

Source of Sample

: Effluent Treatment Plant

Sl. No.	Parameters	Result	PCB Standards
1	pH	7.6	5.5 - 9.0
2	Total Suspended Solid (TSS)	17.6	100
3	Total Dissolved Solid (TDS)	452.2	2100
4	Biochemical Oxygen Demand (3 days at 27 °C)	5.2	30
5	Chemical Oxygen Demand (COD)	39.7	250
6	Oil & Grease (O&G)	BDL	10
7	Chlorides	281.6	1000

Note: All parameters are in mg/l except pH

Oil & Grease BDL < 1.0 (mg/l)

Checked by *Archan*

Page No. 20

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Data Report

FromTime : 01 Feb 2021 00:00:00 ToTime : 01 Mar 2021 00:00:00 Interval : hour

Near Hospital

Time	AAQMS3-PM-10- µg/m3	AAQMS3-PM-2.5- µg/m3	AAQMS3-CO- mg/m3	AAQMS3-NO2- µg/m3	AAQMS3-SO2- µg/m3
01 Feb 2021 00:00	40.4	12.94	0.5	5.24	32.61
01 Feb 2021 12:00	20.85	8.28	0.39	5.53	34.07
02 Feb 2021 00:00	26.7	12.54	0.52	5.3	32.46
02 Feb 2021 12:00	15.12	6.92	0.36	5.36	35.6
03 Feb 2021 00:00	29.54	12.65	0.49	5.32	33.41
03 Feb 2021 12:00	17.58	6.37	0.33	5.76	35.14
04 Feb 2021 00:00	27.24	8.12	0.37	5.5	33.22
04 Feb 2021 12:00	26.37	7.66	0.33	5.55	35.99
05 Feb 2021 00:00	31.39	10.36	0.4	5.36	34.37
05 Feb 2021 12:00	31.67	18.46	0.56	5.49	35.65
06 Feb 2021 00:00	31.58	21.21	0.56	5.52	34.6
06 Feb 2021 12:00	14.7	7.05	0.31	5.57	35.7
07 Feb 2021 00:00	23.65	9.5	0.35	5.25	34.47
07 Feb 2021 12:00	23.01	7.69	0.33	5.38	36.06
08 Feb 2021 00:00	43.21	12.54	0.47	5.41	34.7
08 Feb 2021 12:00	20.63	8.54	0.37	5.43	37.1
09 Feb 2021 00:00	31.21	13.26	0.48	5.22	35.63
09 Feb 2021 12:00	22.42	8.58	0.39	5.55	36.82
10 Feb 2021 00:00	36.85	10.72	0.42	5.41	35.49
10 Feb 2021 12:00	20.11	7.27	0.34	5.46	38.32
11 Feb 2021 00:00	40.18	12.08	0.44	5.32	36.02
11 Feb 2021 12:00	41.1	14.45	0.3	5.54	37.53
12 Feb 2021 00:00	54.26	15.08	0.36	5.45	36.24
12 Feb 2021 12:00	27.14	9.01	0.3	5.43	41.69
13 Feb 2021 00:00	57.87	14.92	0.39	5.41	37.75
13 Feb 2021 12:00	26.6	10.27	0.33	5.45	40.48
14 Feb 2021 00:00	40.4	13.62	0.38	5.47	38.43
14 Feb 2021 12:00	24.49	10.52	0.32	5.15	41.43
15 Feb 2021 00:00	30.92	12.9	0.37	5.33	39.15
15 Feb 2021 12:00	29.85	12.85	0.37	5.46	42.28
16 Feb 2021 00:00	32.56	12.96	0.37	5.35	39.53
16 Feb 2021 12:00	15.57	11.16	0.32	5.29	41.24
17 Feb 2021 00:00	13.78	8.58	0.29	5.52	39.31
17 Feb 2021 12:00	15.6	10.53	0.3	5.44	42.12
18 Feb 2021 00:00	12.22	7.06	0.23	5.39	40.05
18 Feb 2021 12:00	11.52	8.18	0.25	5.5	42.92
19 Feb 2021 00:00	20.02	11.47	0.28	5.28	41.16
19 Feb 2021 12:00	26	11.13	0.29	5.32	43.63
20 Feb 2021 00:00	30.96	13.62	0.32	5.41	40.23
20 Feb 2021 12:00	27.66	14.75	0.37	5.36	43.45
21 Feb 2021 00:00	42.56	17.02	0.38	5.23	41.14

21 Feb 2021 12:00	30.34	12.54	0.36	5.32	45.1
22 Feb 2021 00:00	58.71	16.74	0.4	5.44	42.41
22 Feb 2021 12:00	37.82	9.87	0.35	5.57	44.78
23 Feb 2021 00:00	62.69		0.4	5.63	39.73
23 Feb 2021 12:00	28.45	11.4	0.33	5.46	43.79
24 Feb 2021 00:00	43.95	14.93	0.4	5.42	42.56
24 Feb 2021 12:00	31.75	10.11	0.35	5.45	46.61
25 Feb 2021 00:00	40.51	13.09	0.39	5.48	43.64
25 Feb 2021 12:00	61.94	12.82	0.32	5.5	47.29
26 Feb 2021 00:00	34.54	12.88	0.34	5.39	43.41
26 Feb 2021 12:00	41.41	8.86	0.3	5.4	48.17
27 Feb 2021 00:00	37.58	10.75	0.31	5.28	44.3
27 Feb 2021 12:00	41.23	8.74	0.27	5.3	48.24
28 Feb 2021 00:00	46.03	11.63	0.32	5.41	45.21
28 Feb 2021 12:00	37.15	7.41	0.25	5.41	48.39

Data Report

FromTime : 01 Feb 2021 00:00:00 ToTime : 01 Mar 2021 00:00:00 Interval : hour
Woker Colony

Time	AAQMS2-PM10- µg/m3	AAQMS2-PM2.5- µg/m3	AAQMS2-SO2- µg/m3	AAQMS2-NO2- µg/m3	AAQMS2-CO- mg/m3
01 Feb 2021 00:00	35.59	17.65	19.41	24.96	0.13
01 Feb 2021 12:00	40.44	14.16	19.56	24.93	0.12
02 Feb 2021 00:00	26.04	20.03	19.46	24.91	0.15
02 Feb 2021 12:00		13.66	19.5	24.9	0.13
03 Feb 2021 00:00		18.59	19.58	25.01	0.14
03 Feb 2021 12:00	24.2	10.67	19.59	24.9	0.11
04 Feb 2021 00:00	35.42	13.49	19.59	24.86	0.12
04 Feb 2021 12:00	18.85	10.06	19.64	24.79	0.09
05 Feb 2021 00:00	33.52	16.37	19.72	24.97	0.11
05 Feb 2021 12:00	49.3	27.38	19.81	24.88	0.14
06 Feb 2021 00:00	40.9	32.81	19.89	24.97	0.15
06 Feb 2021 12:00	66.98	14.23	19.85	24.86	0.09
07 Feb 2021 00:00	32.1	15.13	19.75	24.94	0.1
07 Feb 2021 12:00	28.61	14.71	19.82	24.94	0.11
08 Feb 2021 00:00	25.75	15.97	19.8	24.9	0.12
08 Feb 2021 12:00	35.8	15.44	19.86	24.85	0.12
09 Feb 2021 00:00	24.85	17.99	19.85	24.9	0.13
09 Feb 2021 12:00	33.53	12.55	20.02	24.86	0.1
10 Feb 2021 00:00	21.5	15.17	19.98	24.93	0.11
11 Feb 2021 12:00	33.69	10.55	20.08	24.74	0.11
12 Feb 2021 00:00	23.08	11.63	20.1	24.99	0.1
12 Feb 2021 12:00	27.82	10.33	20.21	24.88	0.09
13 Feb 2021 00:00	34.66	14.85	20.18	24.98	0.1
13 Feb 2021 12:00	43.34	12.59	20.49	24.84	0.1
14 Feb 2021 00:00	45.5	15.28	20.79	24.97	0.1
14 Feb 2021 12:00	24.68	11.62	20.67	24.89	0.09
15 Feb 2021 00:00	43.72	16.22	20.56	24.91	0.11
15 Feb 2021 12:00	33.06	13.34	20.73	24.77	0.1
16 Feb 2021 00:00	41.37	14.47	20.65	24.87	0.1
16 Feb 2021 12:00	23.77	11.11	20.78	24.81	0.08
17 Feb 2021 00:00	8.55	5.58	20.44	25.05	0.23
17 Feb 2021 12:00	26.51	10.53	20.86	24.87	0.08
18 Feb 2021 00:00	16.49	7.1	20.84	24.95	0.06
18 Feb 2021 12:00	22.43	8.42	20.87	24.96	0.06
19 Feb 2021 00:00	22.49	11.86	20.83	24.89	0.08
19 Feb 2021 12:00	29.36	10.92	20.88	24.89	0.08
20 Feb 2021 00:00	37.19	14.2	20.74	25.01	0.09
20 Feb 2021 12:00	33.1	15.63	20.93	24.91	0.1
21 Feb 2021 00:00	28.49	15.83	20.85	25	0.09
21 Feb 2021 12:00	31.99	10.95	20.91	24.84	0.1
22 Feb 2021 00:00	19.97		20.79	24.9	0.09

22 Feb 2021 12:00	31.49	11.03	20.9	24.87	0.1
23 Feb 2021 00:00	21.43	12.8	20.85	24.94	0.09
23 Feb 2021 12:00	27.47	10.81	20.91	24.87	0.09
24 Feb 2021 00:00	20.58	12.97	20.84	24.77	0.1
24 Feb 2021 12:00	38	11.2	20.93	24.91	0.09
25 Feb 2021 00:00	26.03	12.75	20.9	24.92	0.09
25 Feb 2021 12:00	32.73	12.43	20.95	24.8	0.08
26 Feb 2021 00:00	17.97	11.43	20.97	24.88	0.08
26 Feb 2021 12:00	27.9	9.22	20.99	24.79	0.07
27 Feb 2021 00:00	19.17	10.11	21.07	24.8	0.08
27 Feb 2021 12:00	37.56	11.34	21.01	24.84	0.08
28 Feb 2021 00:00	27.7	11.6	21.1	24.76	0.08
28 Feb 2021 12:00	46.13	9.94	21.13	24.94	0.07

Data Report

FromTime : 01 Feb 2021 00:00:00 ToTime : 01 Mar 2021 00:00:00 Interval : hour

Patharia

Time	AAQMS1-PM10- µg/m3	AAQMS1-PM2.5- µg/m3	AAQMS1-SO2- µg/m3	AAQMS1-NO2- µg/m3	AAQMS1-CO- mg/m3
01 Feb 2021 00:00	34.8	12.9	23.07	10.33	0.09
01 Feb 2021 12:00	28.37	9.35	27.31	10.03	0.07
02 Feb 2021 00:00	42.37	14.39	22.93	10.46	0.1
02 Feb 2021 12:00	29.66	7.15	28.03	9.97	0.07
03 Feb 2021 00:00	45.25	11.6	23.78	10.31	0.09
03 Feb 2021 12:00	23.8	9.6	27.85	10	0.08
04 Feb 2021 00:00	35		22.9	10.46	0.08
04 Feb 2021 12:00	52.49	14	21.25	10.42	0.14
05 Feb 2021 00:00	40.42	16.11	17.35	10.56	0.1
05 Feb 2021 12:00	42.78	23.3	17.2	10.57	0.07
06 Feb 2021 00:00	33.42	26.43	17.49	10.46	0.09
06 Feb 2021 12:00	31.41	9.09	17.43	10.48	0.05
07 Feb 2021 00:00	34.11	12.65	17.44	10.51	0.07
07 Feb 2021 12:00	24.32	8.06	17.34	10.47	0.05
08 Feb 2021 00:00	22.46	12.29	16.94	10.53	0.07
08 Feb 2021 12:00	31.11	10.15	16.87	10.47	0.07
09 Feb 2021 00:00	60.01	17.06	17.35	10.44	0.08
09 Feb 2021 12:00	34.58	8.33	17.49	10.51	0.06
10 Feb 2021 00:00	28.23	12.43	17.3	10.47	0.08
10 Feb 2021 12:00	25.37	7.63	17.11	10.44	0.05
11 Feb 2021 00:00	30.25	12.56	17.42	10.47	0.08
11 Feb 2021 12:00	25.91	5.91	17.31	10.48	0.04
12 Feb 2021 00:00	31.34	9.34	17.18	10.54	0.07
12 Feb 2021 12:00	27.76	6.68	16.96	10.56	0.06
13 Feb 2021 00:00		4.02	16.83	10.48	0.08
13 Feb 2021 12:00	45.75	8.3	16.93	10.5	0.04
14 Feb 2021 00:00	55.25	12.17	16.97	10.37	0.08
14 Feb 2021 12:00	31.95	7.54	16.89	10.47	0.07
15 Feb 2021 00:00	37.64	12.45	17.19	10.49	0.06
15 Feb 2021 12:00	31.74	9.57	17.4	10.42	0.05
16 Feb 2021 00:00	28.78	9.63	17.42	10.46	0.08
16 Feb 2021 12:00	14.46	7.35	17.51	10.43	0.06
17 Feb 2021 00:00	7.98	6.94	17.42	10.45	0.04
17 Feb 2021 12:00	25.51	7.59	17.54	10.4	0.03
18 Feb 2021 00:00	26.61	3.98	17.63	10.44	0.05
18 Feb 2021 12:00	29.8	5.55	17.53	10.44	0.03
19 Feb 2021 00:00	38.57	10.28	17.69	10.47	0.05
19 Feb 2021 12:00	29.11	7.08	17.37	10.52	0.04
20 Feb 2021 00:00	40.08	10.63	17.65	10.51	0.08
20 Feb 2021 12:00	20.83	11.95	17.64	10.57	0.05
21 Feb 2021 00:00	50.53	13.4	17.71	10.5	0.08

21 Feb 2021 12:00	32.05	8.44	17.66	10.47	0.04
22 Feb 2021 00:00	25.99	13	17.6	10.56	0.08
22 Feb 2021 12:00	31.44	8.1	17.89	10.55	0.05
23 Feb 2021 00:00	29.06	12.58	18.03	10.49	0.08
23 Feb 2021 12:00	28.28	7.33	18.1	10.55	0.05
24 Feb 2021 00:00	43.25	11.84	18.07	10.5	0.08
24 Feb 2021 12:00	52.11	8.55	18.15	10.47	0.05
25 Feb 2021 00:00	50.41	11.52	17.96	10.46	0.08
25 Feb 2021 12:00	118.55	15.82	18.06	10.43	0.04
26 Feb 2021 00:00	70.24	10.51	17.96	10.53	0.05
26 Feb 2021 12:00	45.77	5.6	19.99	10.45	0.15
27 Feb 2021 00:00	32.09	9.21	18.06	10.49	0.08
27 Feb 2021 12:00	51.46	7.44	18.14	10.49	0.03
28 Feb 2021 00:00	34.34	8.06	18.13	10.51	0.04
28 Feb 2021 12:00	76.43	9.59	19.19	10.59	0.09



Real Time Data Acquisition And Monitoring



Created By: glensAdmin
Created At: 2021-03-03 09:24:16

Report Name : Average Report

From: 01-02-2021 - 00:00:00 To: 28-02-2021 - 23:59:00

Date (DD-MM-YYYY)	AAQMS_1 SO2 (ug/m3)Normalized	AAQMS_1 PM2.5 (ug/m3) Normalized	AAQMS_1 NO2 (ug/m3)Normalized	AAQMS_1 NO (ug/m3)Normalized	AAQMS_1 NOx (ug/m3)Normalized	AAQMS_1 CO (mg/m3)Normalized
Avg	29.68	25.55	1.60	2.14	4.62	0.38
Max	31.18	51.21	1.64	2.18	4.71	0.48
Min	28.43	7.72	1.56	2.10	4.55	0.26
Prescribed Standard	80.0	60.0	89.0	80.0	80.0	2.0
First Max occurred at	28-02-2021	12-02-2021	10-02-2021	03-02-2021	03-02-2021	01-02-2021
First Min occurred at	01-02-2021	18-02-2021	12-02-2021	26-02-2021	23-02-2021	18-02-2021
Valid Data Points	28	28	28	28	28	28
Total Data Points	28	28	28	28	28	28
Data Availability %	100	100	100	100	100	100
Uncertainty	0	0	0	0	0	0
MCERT Certified Analyzer	No	No	No	No	No	No
01-02-2021	28.43	47.79	1.57	2.16	4.61	0.48
02-02-2021	28.54	37.25	1.61	2.17	4.68	0.46
03-02-2021	28.57	37.26	1.63	2.18	4.71	0.46
04-02-2021	28.75	41.51	1.63	2.16	4.67	0.48
05-02-2021	28.82	38.37	1.61	2.16	4.65	0.42
06-02-2021	29.04	42.8	1.59	2.16	4.64	0.4
07-02-2021	28.97	37.1	1.62	2.17	4.69	0.36
08-02-2021	28.95	32.71	1.63	2.17	4.69	0.39
09-02-2021	29.06	32.79	1.63	2.17	4.68	0.41
10-02-2021	29.19	39.7	1.64	2.15	4.66	0.41
11-02-2021	29.29	50.16	1.62	2.13	4.62	0.36
12-02-2021	29.37	51.21	1.56	2.16	4.61	0.37
13-02-2021	29.37	15.42	1.62	2.16	4.65	0.39
14-02-2021	29.42	17.97	1.58	2.15	4.62	0.37
15-02-2021	29.56	16.79	1.6	2.16	4.64	0.41
16-02-2021	29.65	12.24	1.59	2.15	4.61	0.35
17-02-2021	29.75	9.82	1.59	2.16	4.63	0.27

ALERT: This report contains NON VALIDATED data.(External Sources)
NOTE: This document contains only Non-MCERT parameters



Real Time Data Acquisition And Monitoring



18-02-2021	29.8	7.72	1.62	2.13	4.63	0.26
19-02-2021	29.88	11.64	1.6	2.14	4.61	0.3
20-02-2021	30.24	16.32	1.59	2.14	4.6	0.36
21-02-2021	30.57	18.75	1.57	2.13	4.57	0.4
22-02-2021	30.54	14.93	1.57	2.13	4.56	0.4
23-02-2021	30.57	13.08	1.58	2.11	4.55	0.4
24-02-2021	30.66	15.68	1.58	2.12	4.57	0.41
25-02-2021	30.82	17.18	1.57	2.12	4.57	0.41
26-02-2021	30.91	14.95	1.59	2.1	4.56	0.34
27-02-2021	31.01	11.65	1.59	2.1	4.56	0.35
28-02-2021	31.18	12.68	1.59	2.11	4.57	0.36

Report Name : Average Report(Continued)

Date (DD-MM-YYYY)	AAQMS_1 PM10 (ug/m3)Normalized
Avg	86.40
Max	305.62
Min	26.64
Prescribed Standard	100.0
First Max occurred at	12-02-2021
First Min occurred at	17-02-2021
Valid Data Points	28
Total Data Points	28
Data Availability %	100
Uncertainty	0
MCERT Certified Analyzer	No
01-02-2021	125.69
02-02-2021	96.15
03-02-2021	99.52
04-02-2021	130.69
05-02-2021	74.85
06-02-2021	86.75
07-02-2021	142.64
08-02-2021	92.16
09-02-2021	73.78
10-02-2021	116.94
11-02-2021	178.75
12-02-2021	305.62
13-02-2021	56.84
14-02-2021	72.25
15-02-2021	57.31
16-02-2021	31.47
17-02-2021	26.64
18-02-2021	28.29

19-02-2021	32.52
20-02-2021	74.4
21-02-2021	86.89
22-02-2021	51.24
23-02-2021	38.77
24-02-2021	61.57
25-02-2021	71.37
26-02-2021	90.35
27-02-2021	50.44
28-02-2021	62.43



Real Time Data Acquisition And Monitoring



Created By: glensAdmin
Created At: 2021-03-03 09:28:15

Report Name : Average Report

From: 01-02-2021 - 00:00:00 To: 28-02-2021 - 23:59:00

Date (DD-MM-YYYY)	AAQMS_2 PM10 (ug/m3)Normalized	AAQMS_2 NOx (ug/m3)Normalized	AAQMS_2 NO (ug/m3)Normalized	AAQMS_2 CO (mg/m3)Normalized	AAQMS_2 PM2.5 (ug/m3) Normalized	AAQMS_2 NO2 (ug/m3)Normalized
Avg	54.34	4.46	2.24	0.15	18.77	1.22
Max	122.91	4.52	2.27	0.19	41.38	1.25
Min	22.06	4.39	2.21	0.11	2.05	1.18
Prescribed Standard	100.0	80.0	80.0	2.0	60.0	80.0
First Max occurred at	10-02-2021	07-02-2021	02-02-2021	03-02-2021	12-02-2021	04-02-2021
First Min occurred at	13-02-2021	27-02-2021	19-02-2021	18-02-2021	20-02-2021	16-02-2021
Valid Data Points	25	28	28	28	28	28
Total Data Points	28	28	28	28	28	28
Data Availability %	89	100	100	100	100	100
Uncertainty	0	0	0	0	0	0
MCERT Certified Analyzer	No	No	No	No	No	No
01-02-2021	64.1	4.49	2.25	0.18	29.64	1.24
02-02-2021	65.62	4.5	2.27	0.18	27.71	1.23
03-02-2021	104.41	4.5	2.27	0.19	28.67	1.23
04-02-2021	112.55	4.51	2.26	0.19	28.63	1.25
05-02-2021	44.19	4.47	2.26	0.18	33	1.22
06-02-2021	0	4.47	2.26	0.16	32.7	1.21
07-02-2021	25.31	4.52	2.27	0.14	20.72	1.24
08-02-2021	0	4.49	2.27	0.15	22.74	1.21
09-02-2021	67.95	4.49	2.25	0.16	26.27	1.24
10-02-2021	122.91	4.49	2.25	0.15	26.42	1.24
11-02-2021	76.14	4.5	2.25	0.15	39.83	1.25
12-02-2021	27.05	4.46	2.24	0.14	41.38	1.23
13-02-2021	22.06	4.47	2.24	0.13	31.01	1.24
14-02-2021	0	4.46	2.24	0.13	13.38	1.23
15-02-2021	68.37	4.45	2.24	0.16	13.52	1.2
16-02-2021	41.48	4.43	2.24	0.14	12.14	1.18
17-02-2021	41.46	4.46	2.24	0.12	3.11	1.21

ALERT: This report contains NON VALIDATED data.(External Sources)
NOTE: This document contains only Non-MCERT parameters



Real Time Data Acquisition And Monitoring



18-02-2021	27.75	4.44	2.22	0.11	2.33	1.22
19-02-2021	39.16	4.44	2.21	0.11	2.54	1.22
20-02-2021	50.82	4.43	2.22	0.12	2.05	1.19
21-02-2021	50.64	4.43	2.22	0.14	2.86	1.21
22-02-2021	42.8	4.43	2.22	0.14	2.73	1.21
23-02-2021	39.48	4.42	2.22	0.14	8.5	1.2
24-02-2021	22.24	4.4	2.21	0.15	10.29	1.19
25-02-2021	39.1	4.42	2.21	0.15	14.86	1.21
26-02-2021	46.66	4.42	2.21	0.12	9.12	1.21
27-02-2021	59.86	4.39	2.22	0.14	21.73	1.18
28-02-2021	56.28	4.4	2.22	0.14	18.74	1.18

Report Name : Average Report(Continued)

Date (DD-MM-YYYY)	AAQMS_2 SO2 (ug/m3)Normalized
Avg	<i>18.63</i>
Max	<i>18.71</i>
Min	<i>18.61</i>
Prescribed Standard	<i>80.0</i>
First Max occurred at	<i>05-02-2021</i>
First Min occurred at	<i>12-02-2021</i>
Valid Data Points	<i>28</i>
Total Data Points	<i>28</i>
Data Availability %	<i>100</i>
Uncertainty	<i>0</i>
MCERT Certified Analyzer	<i>No</i>
01-02-2021	<i>18.66</i>
02-02-2021	<i>18.67</i>
03-02-2021	<i>18.68</i>
04-02-2021	<i>18.66</i>
05-02-2021	<i>18.71</i>
06-02-2021	<i>18.63</i>
07-02-2021	<i>18.63</i>
08-02-2021	<i>18.63</i>
09-02-2021	<i>18.63</i>
10-02-2021	<i>18.65</i>
11-02-2021	<i>18.62</i>
12-02-2021	<i>18.61</i>
13-02-2021	<i>18.62</i>
14-02-2021	<i>18.61</i>
15-02-2021	<i>18.61</i>
16-02-2021	<i>18.61</i>
17-02-2021	<i>18.61</i>
18-02-2021	<i>18.61</i>

19-02-2021	18.61
20-02-2021	18.61
21-02-2021	18.61
22-02-2021	18.61
23-02-2021	18.61
24-02-2021	18.61
25-02-2021	18.61
26-02-2021	18.61
27-02-2021	18.61
28-02-2021	18.61

DIAMOND CEMENTS - DAMOH

PERFORMANCE OF ESPs / BAG HOUSES

Feb-21

PCM ATTACHED TO	Plant Operation		PCM Operation		PCM Stoppage	No. OF ESP Trippings	% OF ESP	Remarks
	Hrs.	Min	Hrs.	Min				
			Hrs.		Hrs.		R.Hrs	
ESP To KILN NO. 1 + RAW MILL NO.1	200	55	200	55	0.000	0	100.000	
ESP To KILN NO. 2 + RAW MILL NO. 2	608	25	608	25	0.000	0	100.000	
REVERSE AIR BAG HOUSE(RABH) To KILN NO. 3 + RAW MILL NO. 3	556	28	556	28	0.000	0	100.000	
BAG HOUSE To COAL MILL NO. 1	141	50	141	50	0.000	0	100.000	
BAG HOUSE To COAL MILL NO. 2	530	55	530	55	0.000	0	100.000	
BAG HOUSE To COAL MILL NO. 3	493	0	493	0	0.000	0	100.000	
ESP To COOLER NO. 1	200	55	200	55	0.000	0	100.000	
ESP To COOLER NO. 2	608	25	608	24	0.017	1	99.997	
ESP To COOLER NO. 3	556	28	556	27	0.017	1	99.997	
BAG HOUSE To CEMENT MILL NO. 1	641	0	641	0	0.000	0	100.000	
BAG HOUSE To CEMENT MILL NO. 2	624	10	624	10	0.000	0	100.000	
BAG HOUSE To CEMENT MILL NO. 3	391	40	391	40	0.000	0	100.000	

DIAMOND CEMENTS DAMOH

Energy Meter Reading

Month : February - 21

S.No.	Location	Month	Consumption (KWH)	Remarks, If Any
Clinkerisation Unit Narsingarh				
1	Hybrid ESP For KILN/ RAW MILL NO.1	Feb-21	6868	
2	Hybrid ESP For KILN/ RAW MILL NO.2	Feb-21	11164	
3	RABH For KILN / RAW MILL NO. 3	Feb-21	181000	
4	ESP For COOLER NO. 1	Feb-21	19762	
5	ESP For COOLER NO. 2	Feb-21	52689	
6	ESP For COOLER NO. 3	Feb-21	11520	
7	BAG HOUSE For COAL MILL NO. 1	Feb-21	21981	
8	BAG HOUSE For COAL MILL NO. 2	Feb-21	80890	
9	BAG HOUSE For COAL MILL NO. 3	Feb-21	281190	
10	SEWAGE TREATMENT PLANT	Feb-21	9010	
Grinding Unit Imlai				
1	BAG HOUSE For CEMENT MILL NO. 1	Feb-21	10912	
2	BAG HOUSE For CEMENT MILL NO. 2	Feb-21	15440	
3	BAG HOUSE For CEMENT MILL NO. 3	Feb-21	45677	
4	SEWAGE TREATMENT PLANT	Feb-21	11330	

ABBREVIATIONS

S. No.	Abbreviation	Full Form
1.	SPM	Suspended Particulate Matter
2.	RABH	Reverse Air Bag House
3.	PM	Particulate Matter
4.	PM ₁₀	Particulate Matter of less than 10 micron size
5.	PM _{2.5}	Particulate Matter of less than 2.5 micron size
6.	SO ₂	Sulphur Dioxide
7.	NO ₂	Nitrogen Dioxide
8.	CO	Carbon Monoxide
9.	AAQMS	Ambient Air Quality Monitoring Station
10.	BDL	Below Detection Limit
11.	dB	Decibel
12.	°C	Degree Centigrade
13.	m/sec	Meter per second
14.	m ²	Meter square
15.	Nm ³ /sec	Normal cubic meter per second
16.	µg/m ³	Micro Grams per cubic meter
17.	mg/Nm ³	Milli Grams per Normal cubic meter
18.	mg/l	Milli Grams per liter



**National Accreditation Board for
Testing and Calibration Laboratories**
(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

ECOMEN LABORATORIES PVT. LTD.

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

Flat 5-8, IInd Floor, Arif Chamber V, Sector-H, Aliganj,
Lucknow, Uttar Pradesh

in the field of

TESTING

Certificate Number TC-7587 (in lieu of T-2202)

Issue Date 25/07/2018

Valid Until 24/07/2020

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL



89076970100030001777

Anil Relia

Anil Relia
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



26.06.2020

Extension in Validity of Accreditation

NABL Policy: It is decided to extend the validity of accreditation for a period of one year to all conformity assessment bodies (CABs) where renewal of accreditation is to take place and accreditation validity date is between 01.01.2020 and 30.06.2022 **subject to the following:**

1. Providing satisfactory documents based on NABL-218 wrt compliance to the requirements of the relevant Standard and NABL requirements.
2. The CABs are required to conduct additional internal audit to ensure compliance with the standard requirements (by increasing the existing frequency of their audit plan) and submit the document.
3. The CABs are required to provide control charts and trends for assuring the validity of results.
4. CABs are required to provide an undertaking to undergo unannounced assessment (onsite and/or remotely, depending on the situation) and actions as per NABL-216 thereof, at any point of time during the validity period.
5. Making payment of **annual accreditation fee** for the extended period.

Examples:

- Accredited CABs with date of issue 15.01.2018 and valid till 14.01.2020, then their Accreditation validity will be extended till 14.01.2021.
- Accredited CABs with date of issue 15.02.2019 and valid till 14.02.2021, then their Accreditation validity will be extended till 14.02.2022.
- Accredited CABs with date of issue 15.06.2020 and valid till 14.06.2022, then their Accreditation validity will be extended till 14.06.2023

NOTE:

1. The above will be applicable to the laboratories for which transition to ISO/IEC 17025:2017 version has been completed. For the laboratories which are accredited as per ISO/IEC 17025:2005 version, they have to undergo transition assessment (onsite and/or remotely, depending on the situation) and follow transition plan defined.
2. The above is not applicable to CABs where there will be a change in name of CAB and/or legal identity change and/or Premises change.
3. Also, **the above is not applicable to the CABs which are not registered in portal** (exemption- International accredited CABs).
4. Routine assessments will take place for any scope extension /addition.
5. Payment due to NABL can be deferred (postpone the payment) upto a period of Six (6) months. There will be no waive-off of any fee for any CABs. If payments are not made, then action as per procedure (NABL-216) will be initiated. There will be no relaxations wrt payment from 01.01.2021.

N.Venkateswaran
CEO, NABL



CERTIFICATE

*This is to Certify that the
Occupational Health & Safety Management System
of*

ECOMEN LABORATORIES PVT. LTD.
FLAT NO. 5-8, 2ND FLOOR, ARIF CHAMBER-V, SECTOR- H,
ALIGANJ, LUCKNOW- 226024, (U.P.) INDIA.

has been independently assessed and is compliant
with the requirements of

OHSAS 18001:2007

This Certificate is applicable to the following product or service ranges:

**ENVIRONMENTAL MONITORING, STUDIES, TESTING SERVICES IN
CHEMICAL FIELD, ENVIRONMENTAL IMPACT ASSESSMENT,
ENVIRONMENTAL MANAGEMENT PLAN AND
CONSULTANCY SERVICES**

Certificate No.: IN32538C

IAS UID No.: MSCB-132-76321

Date of initial registration	15 July 2015
Date of this Certificate	14 July 2018
Surveillance audit on or before	14 July 2019
Recertification Due / Certificate expiry	14 July 2021

This Certificate is property of LMS Certifications and remains valid
subject to satisfactory surveillance audits.



Director

For verification and updated information concerning the present certificate visit to www.lmscert.com
This Certificate is the property of LMS Certification Limited and shall be returned immediately when demanded.



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