

HCIL(NGH)-ENV-F-101/2020/

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

Oct 06, 2020**Sub.: Monthly Environmental Monitoring Reports for Sep 2020**

Sir,

Please find enclosed herewith the Environmental Monitoring Report of the following for the month of **Sep 2020**

S. No.	Name of Plant / Mines	Monitoring Details
1.	Clinkerisation Unit, Narsingarh (including WHRPP)	Ambient Air Quality Monitoring including Ambient Noise Monitoring, Work zone noise, Fugitive monitoring, Stack Monitoring, 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, Work zone noise, Fugitive 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, Work zone noise, Fugitive monitoring, Stack Monitoring, Water, Waste water Quality Analysis Report and 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

September, 2020

Prepared by:



Certificate No.: T-2202

ecoMen

Ecomen Laboratories Pvt. Ltd.
(An approved Laboratory from NABL and MoEF&CC)
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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:05-08/09/20
ISSUE DATE : 30.09.2020

Month: Sep. 2020

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)
		03.09.2020	04.09.2020		03.09.2020	03.09.2020	03.09.2020
Near Hospital	06.00 am	18.57	30.00	06:00 am to 10:00 am	320	7.19	8.44
				10:00 am to 02:00 pm		8.39	11.42
				02:00 pm to 06:00 pm	320	8.37	12.74
				08:00 pm to 10:00 pm		7.81	12.57
				10:00 pm to 02:00 am	340	7.75	9.83
				02:00 am to 06:00 am		8.92	10.29
				Average Value	327	8.07	10.88
Near Gate of Mine Pit No.1	06.00 am	24.13	34.40	06:20 am to 10:20 am	300	8.92	12.20
				10:20 am to 02:20 pm		8.39	12.86
				02:20 pm to 06:20 pm	340	10.07	10.10
				08:20 pm to 10:20 pm		10.19	9.88
				10:20 pm to 02:20 am	350	9.52	12.09
				02:20 am to 06:20 am		7.57	10.12
				Average Value	330	9.11	11.21
Near STP Area	06.00 am	23.16	33.48	06:40 am to 10:40 am	310	8.35	10.79
				10:40 am to 02:40 pm		8.58	9.88
				02:40 pm to 06:40 pm	340	8.33	11.78
				06:40 pm to 10:40 pm		9.01	10.15
				10:40 pm to 02:40 am	310	8.97	9.86
				02:40 am to 06:40 am		8.39	8.44
				Average Value	320	8.60	10.15
Near Worker Colony	06.00 am	20.82	31.73	07:00 am to 11:00 am	370	7.77	9.86
				11:00 am to 03:00 pm		6.39	10.37
				03:00 pm to 07:00 pm	380	8.37	12.98
				07:00 pm to 11:00 pm		7.77	13.07
				11:00 pm to 03:00 am	350	9.34	11.19
				03:20 am to 07:00 am		7.79	11.09
				Average Value	360	8.24	11.43

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	80	100	80	80	2000
2		Annual	40	60	50	40	-

* Time mentioned above is the initial Time of Sampling.

SO₂ BDL < 1 (µg/m³) and NO₂ BDL < 8.1 (µg/m³)

Checked by


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Month: Sep. 2020

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Name of Plant/Mines :

M/s Diamond Cements -Grinding Unit
(Prop. HeidelbergCement India Limited), Imlai, 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)
		05.09.2020	07.09.2020		07.09.2020	07.09.2020	07.09.2020
Near Admin Bld.	06.00 am	18.03	28.22	06:00 am to 10:00 am	380	7.14	12.20
				10:00 am to 02:00 pm		7.19	12.54
				02:00 pm to 06:00 pm	370	7.75	8.16
				06:00 pm to 10:00 pm		6.57	10.10
				10:00 pm to 02:00 am	390	7.32	10.33
				02:00 am to 06:00 am		6.61	9.42
				Average Value	380	7.10	10.46
Near Water Storage Tank (Behind D.G. Set)	06.00 am	18.54	32.05	06:20 am to 10:20 am	370	8.88	9.74
				10:20 am to 02:20 pm		8.97	9.14
				02:20 pm to 06:20 pm	410	9.56	12.26
				06:20 pm to 10:20 pm		8.97	10.34
				10:20 pm to 02:20 am	390	8.29	10.71
				02:20 am to 06:20 am		7.66	9.96
				Average Value	390	8.71	10.36
Near Railway Siding	06.00 am	21.67	34.90	06:40 am to 10:40 am	380	8.37	9.86
				10:40 am to 02:40 pm		8.39	9.40
				02:40 pm to 06:40 pm	420	9.58	10.82
				06:40 pm to 10:40 pm		9.83	16.15
				10:40 pm to 02:40 am	410	8.99	13.02
				02:40 am to 06:40 am		8.97	9.86
				Average Value	403	9.02	11.52
Near Worker Colony	06.00 am	20.09	28.45	07:00 am to 11:00 am	310	7.77	8.18
				11:00 am to 03:00 pm		8.81	10.82
				03:00 pm to 07:00 pm	390	8.92	9.09
				07:00 pm to 11:00 pm		8.41	11.60
				11:00 pm to 03:00 am	400	8.37	12.98
				03:20 am to 07:00 am		7.79	11.93
				Average Value	387	8.34	10.77

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	60	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)

Checked by

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ISSUE DATE : 30.09.2020

Month: Sep. 2020

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Name of Plant/Minea :

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

AAQMS	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 ($\mu\text{g}/\text{m}^3$)
		01.09.2020	02.09.2020		02.09.2020	02.09.2020	02.09.2020
Near Main Office	08.00 am	15.31	29.38	06:00 am to 10:00 am	300	8.33	9.81
				10:00 am to 02:00 pm		8.16	10.79
				02:00 pm to 06:00 pm	410	8.37	12.98
				06:00 pm to 10:00 pm		8.39	9.88
				10:00 pm to 02:00 am	420	7.77	9.38
				02:00 am to 06:00 am		7.19	9.16
				Average Value	377	8.03	10.34
Near Back Filling Area	06.00 am	19.30	31.34	06:20 am to 10:20 am	390	7.19	12.43
				10:20 am to 02:20 pm		9.44	12.74
				02:20 pm to 06:20 pm	380	9.52	12.20
				06:20 pm to 10:20 pm		10.16	12.50
				10:20 pm to 02:20 am	410	9.01	12.32
				02:20 am to 06:20 am		8.99	10.85
				Average Value	393	9.05	12.18
Near Mine Pit	06.00 am	22.40	33.71	06:40 am to 10:40 am	340	8.37	11.54
				10:40 am to 02:40 pm		8.94	11.27
				02:40 pm to 06:40 pm	400	8.94	11.51
				06:40 pm to 10:40 pm		8.97	12.40
				10:40 pm to 02:40 am	390	8.81	10.82
				02:40 am to 06:40 am		8.37	9.86
				Average Value	377	8.73	11.24
Near Temple	06.00 am	17.28	28.68	07:00 am to 11:00 am	360	7.79	10.12
				11:00 am to 03:00 pm		8.37	10.34
				03:00 pm to 07:00 pm	300	8.35	9.83
				07:00 pm to 11:00 pm		8.37	12.48
				11:00 pm to 03:00 am	380	7.77	10.10
				03:20 am to 07:00 am		7.99	9.88
				Average Value	347	8.11	10.45

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 < 6.1 ($\mu\text{g}/\text{m}^3$)

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TEST REPORT NO. : ECO LAB/D/A:13-16 & M:13-16/06/20
ISSUE DATE : 30.09.2020

Month: Sep. 2020

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Name of Plant/Mines :

Lime Stone Mines, Patharia-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)
		25.09.2020	24.09.2020		24.09.2020	24.09.2020	24.09.2020
Near Main Office	06.00 am	14.80	25.25	06:00 am to 10:00 am	350	7.19	9.88
				10:00 am to 02:00 pm		7.77	10.10
				02:00 pm to 06:00 pm	390	6.39	13.29
				06:00 pm to 10:00 pm		8.20	12.29
				10:00 pm to 02:00 am	380	7.77	9.86
				02:00 am to 06:00 am		7.73	8.61
				Average Value	373	7.84	10.67
Near Back Filling Area	06.00 am	23.41	34.21	06:20 am to 10:20 am	290	8.97	10.82
				10:20 am to 02:20 pm		9.59	12.29
				02:20 pm to 06:20 pm	310	9.78	12.92
				06:20 pm to 10:20 pm		10.19	11.81
				10:20 pm to 02:20 am	320	8.94	9.83
				02:20 am to 06:20 am		8.97	13.28
				Average Value	307	9.40	11.82
Near Mine Pit	08.00 am	22.40	32.33	06:40 am to 10:40 am	340	8.33	12.20
				10:40 am to 02:40 pm		7.81	10.87
				02:40 pm to 06:40 pm	430	8.41	13.77
				06:40 pm to 10:40 pm		9.54	11.03
				10:40 pm to 02:40 am	380	6.92	11.72
				02:40 am to 06:40 am		8.14	9.81
				Average Value	383	8.52	11.57
Near Temple	06.00 am	19.22	24.83	07:00 am to 11:00 am	310	8.39	12.29
				11:00 am to 03:00 pm		6.99	10.85
				03:00 pm to 07:00 pm	370	9.58	9.88
				07:00 pm to 11:00 pm		8.88	12.03
				11:00 pm to 03:00 am	390	8.58	11.06
				03:20 am to 07:00 am		7.79	9.88
				Average Value	357	8.70	11.00

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)

Checked by

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TEST REPORT NO. : ECO LAB/D/N:01/09/20
ISSUE DATE: 30.09.2020

Month: September : 2020

TEST REPORT OF AMBIENT NOISE MONITORING

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

Date of Monitoring : 04.09.2020

Sl. No.	Location	Leq Value in dB(A)	
		Day Time	Night Time
1.	Near Hospital	52.5	43.0
2.	Near Gate of Mine Pit No.1	58.7	55.4
3.	Near STP Area	58.2	51.2
4.	Near Worker Colony	45.3	40.9

Checked by

[Signature]

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Noise (Ambient Standard) - Noise Pollution (Prevention & Control Rule 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 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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TEST REPORT NO. : ECO LAB/D/N:02/09/20
ISSUE DATE: 30.09.2020

Month: September : 2020

TEST REPORT OF AMBIENT NOISE MONITORING

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

Date of Monitoring : 07.09.2020

Sl. No.	Location	Leq Value in dB(A)	
		Day Time	Night Time
1.	Near ADM Bld.	53.4	48.2
2.	Near Worker Colony	49.5	42.2
3.	Near Railway Siding	60.3	54.3
4.	Near Water Storage Tank (Behind D.G.Set)	57.7	52.8

Checked by 

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Noise (Ambient Standard) - Noise Pollution (Prevention & Control) Rule 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 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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Month: September : 2020

TEST REPORT OF AMBIENT NOISE MONITORING

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

Date of Monitoring : 24.09.2020

Sl. No.	Location	Leq Value in dB(A)	
		Day Time	Night Time
1.	Near Main Office	61.2	55.7
2.	Near Back Filling Area	51.5	47.1
3.	Near Mine Pit	58.7	55.9
4.	Near Temple	61.2	57.6

Checked By

Authorized Signatory

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PH: 2746282, Fax:2745726

Noise (Ambient Standard) - Noise Pollution (Prevention & Control Rule 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/S:13,02 & 06/09/20
ISSUE DATE : 30.09.2020

Month: September 2020

TEST REPORT OF STACK MONITORING

Name of Plant/Mines :

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

Location	S-1	S-2	S-3
Date of Monitoring	*	08.09.2020	16.09.2020
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)	*	30	33
Stack Gas Temp (°C)	*	60	70
Exit Velocity of Gas (m/sec.)	*	6.98	7.07
Flow Rate (Nm ³ / sec.)	*	9.29	19.38
Lab Testing			
Particulate Matter(PM) (mg/Nm ³) (Isokinetic Samples)	*	17.3	13.9

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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FORMAT NO. : ECO/QS/D/FORMAT/03
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TEST REPORT NO. : ECO LAB/D/S:14,03 & 01/09/20
ISSUE DATE: : 30.09.2020

Month: September 2020

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	*	09.09.2020	04.09.2020
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)	*	32	30
Stack Gas Temp (°C)	*	140	111
Exit Velocity of Gas (m/sec.)	*	17.45	18.29
Flow Rate (Nm ³ / sec.)	*	63.42	197.61
(Test Conducted)			
Particulate Matter(PM) (mg/Nm ³) (Isokinetic Samples)	*	15.3	12.1


Stack Emission Standard = 30 mg/NM³

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

Note:

- 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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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	*	09.09.2020	04.09.2020
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	96	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)	*	32	30
Stack Gas Temp (°C)	*	140	111
Exit Velocity of Gas (m/sec.)	*	17.45	18.29
Flow Rate (Nm ³ / sec.)	*	63.42	197.61
Test Conducted			
Particulate Matter(PM) (mg/Nm ³) (Isokinetic Samples)	*	15.3	12.1
Oxygen (O ₂) (%)	*	11.5	10.1
Sulphur Dioxide (SO ₂)	(mg/Nm ³)	*	12.2
	at 10 % O ₂ Correction (mg/Nm ³)	*	14.1
Nitrogen Dioxides (NO _x)	(mg/Nm ³)	*	291.3
	at 10 % O ₂ Correction (mg/Nm ³)	*	337.8

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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TEST REPORT NO. : ECO LAB/D/S:15,08,09 & 11/09/20
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Month: September 2020

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	*	19.09.2020	21.09.2020	24.09.2020
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)	*	31	32	29
Stack Gas Temp (°C)	*	180	123	32
Exit Velocity of Gas (m/sec.)	*	12.78	11.45	6.03
Flow Rate (Nm ³ / sec.)	*	88.18	89.81	2.79
Particulate Matter(PM) (mg/Nm ³) (Isokinetic Samples)	*	18.8	14.7	19.5

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

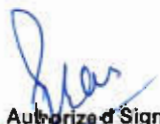
S-8 : Clinker Cooler No-2

S-9 : Clinker Cooler No-3

S-10 : Crusher

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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	12.09.2020	12.09.2020	21.09.2020
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)	35	29	30
Stack Gas Temp (°C)	80	76	92
Exit Velocity of Gas (m/sec.)	4.62	7.78	15.82
Flow Rate (Nm ³ / sec.)	5.47	10.54	11.44
(Test Conducted)			
Particulate Matter(PM) (mg/Nm ³) (Isokinetic Samples)	11.9	16.1	15.1

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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ISSUE DATE: : 30.09.2020

Month: September 2020

TEST REPORT OF STACK MONITORING

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

Location	S-4
Date of Monitoring	26.09.2020
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)	30
Stack Gas Temp (°C)	36
Exit Velocity of Gas (m/sec.)	22.38
Flow Rate (Nm ³ / sec.)	4.52
(Test Conducted)	
Particulate Matter(PM) (mg/Nm ³) Samples)	(Isokinetic) 21.7

Stack Emission Standard = 30 mg/NM³

Note:

S-4 : Packer No-3

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TEST REPORT NO. : ECO LAB/D/S:07/09/20
ISSUE DATE: : 30.09.2020

Month: September 2020

TEST REPORT OF STACK MONITORING

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

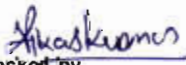
Location	S-01
Date of Monitoring	18.09.2020
Stack Details	
Material of Construction (Stack/Duct)	M.S.
Stack Attached to	Crusher
Name of Air Pollution Control Device	Bag House
Stack Height above the Groundlevel (m)	30
Stack Top	Circular
Inside Diameter of Stack (m)	1.5
Cross sectional area of Duct/Stack (m ²)	1.77
Ambient Temp (°C)	34
Stack Gas Temp (°C)	36
Exit Velocity of Gas (m/sec.)	11.94
Flow Rate (Nm ³ / sec.)	19.24
(Test Conducted)	
Particulate Matter(PM) (mg/Nm ³) (Isokinetic Samples)	23.3

Stack Emission Standard = 30 mg/NM³


Note:

S-1 : Crusher

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REV. NO. : 00TEST REPORT NO.: ECO LAB/D/F:01-07/09/20
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Month: September 2020

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

Sl. No.	Location	Date	Time	SPM ($\mu\text{g}/\text{m}^3$)
1	In between Lime Stone Stock Pile & Coal Yard	08.09.2020	09:00 am to 01:00 pm	871
2	Laterite Yard	08.09.2020	02:00 pm to 06:00 pm	759
3	Near Crusher	08.09.2020	09:00 am to 01:00 pm	694
4	Near Raw Mill Silo	08.09.2020	02:00 pm to 06:00 pm	863
5	Clinker Stock Pile	09.09.2020	09:00 am to 01:00 pm	769
6	Lime Stone Stock Area Line-3	09.09.2020	02:00 pm to 06:00 pm	746
7	Coal Stock Area Line-3	09.09.2020	09:00 am to 01:00 pm	872

Fugitive emission Standard for Cement Plants as per CPCB guidelines

Sl. No.	Particular	Fugitive Emission Standard
1	Coal handling area	2000 ($\mu\text{g}/\text{m}^3$)
2	Other than Coal handling area	5000 ($\mu\text{g}/\text{m}^3$)

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ISSUE DATE: 30.09.2020

Month: September 2020

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

SI. No.	Location	Date	Time	SPM (($\mu\text{g}/\text{m}^3$))
1	Clinker Stock Pile	11.09.2020	09:00 am to 01:00 pm	761
2	Coal Yard	11.09.2020	02:00 pm to 06:00 pm	735
3	Gypsum Yard	11.09.2020	09:00 am to 01:00 pm	763
4	Fly ash Handling System	11.09.2020	02:00 pm to 06:00 pm	664
5	Near Cement Silo	12.09.2020	09:00 am to 01:00 pm	884

Fugitive emission Standard for Cement Plants as per CPCB guidelines		
SI. No.	Particular	Fugitive Emission Standard
1	Coal handling area	2000 ($\mu\text{g}/\text{m}^3$)
2	Other than Coal handling area	5000 ($\mu\text{g}/\text{m}^3$)

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FORMAT NO. : ECO/QS/D/FORMAT/04
REV. NO. : 00TEST REPORT NO.:ECO LAB/D/F:13-17/09/20
ISSUE DATE: 30.09.2020

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TEST REPORT OF FUGITIVE EMISSION MONITORINGName of Plant/Mines : Lime Stone Mine ,Patharia - Diamond Cements
(Prop. HeidelbergCement India Limited),Damoh (M.P.)

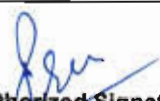
SI. No.	Location	Date	Time	SPM ((µg/m3)
1	Near Loading Point - Belt Conveyor	14.09.2020	09:00 am to 01:00 pm	725
2	Haulage Road	14.09.2020	02:00 pm to 06:00 pm	721
3	Near Crusher	14.09.2020	09:00 am to 01:00 pm	866
4	Near Lime Stone Stock Area	14.09.2020	02:00 pm to 06:00 pm	741
5	Near Drilling Area	15.09.2020	09:00 am to 01:00 pm	696

Fugitive emission Standard for Cement Plants as per CPCB guidelines

SI. No.	Particular	Fugitive Emission Standard
1	Coal handling area	2000 (µg/m3)
2	Other than Coal handling area	5000 (µg/m3)


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Month: September 2020

TEST REPORT OF WORK ZONE NOISE MONITORING

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

Monitoring Done By : Mr. Anubhav Trivedi

Sl. No.	Location	Date of Monitoring	Leq Value in dB(A)
1	D.G Set (Near CCR)	28.09.2020	63.4
2	D.G Set (Near WHR)	28.09.2020	70.1
3	Near Cooler-1	28.09.2020	87.2
4	Near Coal Mill-1	28.09.2020	90.9
5	Near Raw Mill-1	28.09.2020	84.6
6	Near Compressor House Line-1	28.09.2020	95.2
7	Near Blower Room for Kiln Firing Line-1	28.09.2020	64.8
8	Near Lime Stone Crusher	28.09.2020	70.1
9	Near Mechanical workshop	28.09.2020	78.3
10	Near Technical Building	28.09.2020	68.2
11	Near Electrical Workshop	28.09.2020	72.5
12	Near Coal Crusher	28.09.2020	92.4
13	Near Additive Cusher	28.09.2020	84.6
14	Near Stores	28.09.2020	67.3
15	T.G. Encloser	28.09.2020	76.1
16	WHR Plant	28.09.2020	78.3

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ISSUE DATE : 30.09.2020

Month: September 2020

TEST REPORT OF WORK ZONE NOISE MONITORING


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

Monitoring Done By : Mr. Anubhav Trivedi

Sl. No.	Location	Date of Monitoring	Leq Value in dB(A)
1	Near Compressor House Line-2	29.09.2020	88.1
2	Near Blower Room for Kiln Firing Line-2	29.09.2020	88.6
3	Near Blower Room Below Silo Line -2	29.09.2020	90.9
4	Near Kiln- 2	29.09.2020	87.2
5	Near Cooler-2	29.09.2020	96.7
6	In between Pump House Line 1 & 2	29.09.2020	78.3
7	Near Coal Mill-2	29.09.2020	92.5
8	Near Raw Mill-2	29.09.2020	95.8
9	Near Pump House Line-3	29.09.2020	86.2
10	Near Compressor House Line-3	29.09.2020	92.4
11	Near Blower Room for Kiln Firing Line-3	29.09.2020	83.7
12	Near Blower Room Below Silo Line-3	29.09.2020	81.3
13	Near Kiln- 3	29.09.2020	94.2
14	Near Cooler-3	29.09.2020	96.8
15	Near Coal Mill-3	29.09.2020	86.1
16	Near Raw Mill-3	29.09.2020	87.9
17	Near Additive Cusher Line-3	29.09.2020	91.7
18	Near Stacker Reclaimer	29.09.2020	85.5

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FORMAT NO. : ECO/QS/D/FORMAT/24
REV. NO. : 00

TEST REPORT NO. : ECO LAB/DWN:02/09/2020
ISSUE DATE : 30.09.2020

Month: September 2020

TEST REPORT OF WORK ZONE NOISE MONITORING


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

Monitoring Done By : Mr. Bhagchand kori

Sl. No.	Location	Date of Monitoring	Leq Value in dB(A)
1	Near Mechanical Workshop	11.09.2020	76.2
2	Near Pump House	11.09.2020	91.3
3	Near Compressor House	11.09.2020	93.1
4	Near Blower Room Below Silo	11.09.2020	76.1
5	Near Packing Plant Loading Platform	11.09.2020	81.4
6	Near Cement Mill-1	11.09.2020	92.5
7	Near Cement Mill-2	11.09.2020	83.2
8	Near Cement Mill-3	11.09.2020	85.6
9	Near Packer No. - 4	11.09.2020	66.3
10	Near DG Set Office	11.09.2020	73.9
11	Near Substation	11.09.2020	88.4
12	Near CCR	11.09.2020	81.7
13	Near Technical Building	11.09.2020	67.3

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FORMAT NO. : ECO/QS/D/FORMAT/24

TEST REPORT NO. : ECO LAB/D/WN:01/09/20

REV. NO. : 00

ISSUE DATE 30.09.2020

Month: September 2020

TEST REPORT OF WORK ZONE NOISE MONITORING


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

Monitoring Done By : Mr. Laxman Singh

Sl. No.	Location	Date of Monitoring	Leq Value in dB(A)
1	Drill (In Operator Cabin)	18.09.2020	80.5
2	Dumper (In Operator Cabin)	18.09.2020	83.4
3	Excavator (In Operator Cabin)	18.09.2020	76.3
4	Crusher Operator Cabin	18.09.2020	87.1
5	Near Screen House	18.09.2020	96.5
6	Near Crusher Impactor Platform	18.09.2020	99.8
7	Near Silo House Loading Point	18.09.2020	80.6
8	Near Transfer Tower- 1 (T.T.-1)	18.09.2020	88.2
9	Near Transfer Tower- 2 (T.T.-2)	18.09.2020	95.3
10	Near Transfer Tower- 3 (T.T.-3)	18.09.2020	91.7
11	Near Unloading Point Bunker Area No-1	18.09.2020	78.3
12	Near Silo Top	18.09.2020	83.1
13	Near Bubbler	18.09.2020	90.8
14	Near Dump Hopper	18.09.2020	75.9
15	Dumper operator in cabin (Private)	18.09.2020	90.7

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FORMAT NO. : ECO/QS/D/FORMAT/08
REV. NO. : 00

TEST REPORT NO. : ECO LAB/D/ELW:12432-12433/09/20
ISSUE DATE : 30.09.2020

Month: September 2020

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 : 24.09.2020

Source of Sample : Sewage Treatment Plant (STP)

Sl. No.	Parameters	Result		PCB Standards
		STP Inlet	STP Outlet	
1	pH	7.65	7.41	5.5 - 9.0
2	Total Suspended Solid (TSS)	345.1	7.8	10.0
3	Total Dissolved Solid (TDS)	725.3	354.1	-
4	Biochemical Oxygen Demand (3 days at 27 °C)	155.8	6.8	10.0
5	Chemical Oxygen Demand (COD)	263.1	28.1	50.0
6	Oil & Grease (O&G)	1.8	BDL	10.0
7	Sodium Adsorption Ratio (SAR)	1.2	0.95	-
8	Fecal Coliform (FC) MPN/100ml	-	81	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
REV. NO. : 00

TEST REPORT NO. : ECO LAB/D/ELW:12434-12435/09/20
ISSUE DATE : 30.09.2020

Month: September 2020

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 : 24.09.2020

Source of Sample : Sewage Treatment Plant (STP)


Sl. No.	Parameters	Result		PCB Standarda
		STP Inlet	STP Outlet	
1	pH	7.82	7.36	5.5 - 9.0
2	Total Suspended Solid (TSS)	255.3	7.9	10.0
3	Total Dissolved Solid (TDS)	452.5	281.4	-
4	Biochemical Oxygen Demand (3 days at 27 °C)	152.8	7.7	10.0
5	Chemical Oxygen Demand (COD)	352.1	15.4	50.0
6	Oil & Grease (O&G)	2.1	BDL	10.0
7	Sodium Adsorption Ratio (SAR)	1.8	1.2	-
8	Fecal Coliform (FC) MPN/100ml	-	72	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
REV. NO. : 00

TEST REPORT NO. : ECO LAB/D/ELW:12436/09/20
ISSUE DATE : 30.09.2020

Month: September 2020

TEST REPORT OF WASTE WATER ANALYSIS

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

Date of Sample Collection : 24.09.2020

Source of Sample : Septic tank

Sl. No.	Parameters	Result	PCB Standards
1	pH	7.4	5.5 - 9.0
2	Total Suspended Solid (TSS)	7.8	10.0
3	Total Dissolved Solid (TDS)	451.2	-
4	Biochemical Oxygen Demand (3 days at 27 °C)	8.4	10.0
5	Chemical Oxygen Demand (COD)	24.1	50.0
6	Oil & Grease (O&G)	BDL	10.0
7	Chloride(Cl)	36.5	1000.0

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:12437/09/20
ISSUE DATE : 30.09.2020

Month: September 2020

TEST REPORT OF WASTE WATER ANALYSIS

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

Date of Sample Collection : 24.09.2020

Source of Sample : Oil & Grease Trap


Sl. No.	Parameters	Result	PCB Standards
1	pH	7.6	5.5 - 9.0
2	Total Suspended Solid (TSS)	8.4	10
3	Total Dissolved Solid (TDS)	490.2	-
4	Biochemical Oxygen Demand (3 days at 27 °C)	7.1	10
5	Chemical Oxygen Demand (COD)	15.8	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:12438/09/20
ISSUE DATE : 30.09.2020

Month: September 2020

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 : 24.09.2020

Source of Sample : Mine Pit


Sl. No.	Parameters	Result
1	pH	7.1
2	Suspended Solid	75.6
3	Total Dissolved Solid (TDS)	386.4
4	Total Hardness as CaCO ₃	452
5	Oil & Grease (O&G)	BDL
6	Fluoride as F	0.05
7	Calcium as CaCO ₃	280
8	Magnesium as CaCO ₃	172
9	Sodium as Na	11.5
10	Total Alkalinity	19.2
11	Potassium	1.9
12	Chloride as Cl	10.1
13	Total Organic Carbon (TOC)	1.6

Note: All parameters are in mg/l except pH

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:12439/09/20
ISSUE DATE : 30.09.2020

Month: September 2020

TEST REPORT OF WASTE WATER ANALYSIS

Name of Plant/Mines

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

Date of Sample Collection : 24.09.2020

Source of Sample : Effluent Treatment Plant

Sl. No.	Parameters	Result	PCB Standards
1	pH	6.8	5.5 - 9.0
2	Total Suspended Solid (TSS)	15.4	100
3	Total Dissolved Solid (TDS)	498.7	2100
4	Biochemical Oxygen Demand (3 days at 27 °C)	4.2	30
5	Chemical Oxygen Demand (COD)	31.4	250
8	Oil & Grease (Q&G)	BDL	10
7	Chlorides	256.1	1000

Note: All parameters are in mg/l except pH

Oil & Grease BDL < 1.0 (mg/l)

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Data Report

FromTime : 01 Sep 2020 00:00:00 ToTime : 01 Oct 2020 00:00:00 Interval : hour

Patharia mines

Time	AAQMS1-PM10- µg/m3	AAQMS1-PM2.5- µg/m3	AAQMS1-SO2- µg/m3	AAQMS1-NO2- µg/m3	AAQMS1-CO- mg/m3
01 Sep 2020 00:00	61.09	19.85	40.51	10.58	0.04
01 Sep 2020 12:00	108.77	26.22	41.24	10.58	0.04
02 Sep 2020 00:00	92.07	28.78	44.41	10.56	0.05
02 Sep 2020 12:00	36.69	14.01	66.48	10.17	0.06
03 Sep 2020 00:00	44.32	12.91	68.96	10	0.08
03 Sep 2020 12:00	10.98	6.31	41.7	10.62	0.07
04 Sep 2020 00:00	8.82	11.66	40.81	10.51	0.04
04 Sep 2020 12:00	17.03	15.21	40.99	10.4	0.04
05 Sep 2020 00:00	22.14	26.96	40.91	10.43	0.05
05 Sep 2020 12:00	55.21	21.57	40.6	10.49	0.04
06 Sep 2020 00:00	27.2	25.24	40.9	10.52	0.05
06 Sep 2020 12:00	133.46	37.55	41.2	10.52	0.04
07 Sep 2020 00:00	75.26	34.71	41.21	10.58	0.06
07 Sep 2020 12:00	53.2	24.8	54.39	10.42	0.04
08 Sep 2020 00:00	25.1	25.73	66.7	10.24	0.06
08 Sep 2020 12:00	21.38	20.88	41.55	10.52	0.06
09 Sep 2020 00:00	19.97	23.03	41.44	10.51	0.04
09 Sep 2020 12:00	24.19	21.39	41.29	10.51	0.04
10 Sep 2020 00:00	16.1	19.33	40.72	10.5	0.04
10 Sep 2020 12:00	17.24	24.79	41	10.44	0.04
11 Sep 2020 00:00	7.6	11.54	40.37	10.42	0.04
11 Sep 2020 12:00		35.6	40.81	10.47	0.05
12 Sep 2020 00:00		43.37	40.92	10.47	0.06
12 Sep 2020 12:00	22.16	43.56	53.97	10.39	0.04
13 Sep 2020 00:00	30.21	28.33	64.58	10.21	0.07
13 Sep 2020 12:00	21.25	34.36	41.87	10.53	0.05
14 Sep 2020 00:00	26.36	29.11	42.01	10.54	0.05
14 Sep 2020 12:00	36.75	35.85	41.58	10.53	0.05
15 Sep 2020 00:00	207.96		41.45	10.44	0.05
15 Sep 2020 12:00	35.32		41.44	10.37	0.04
16 Sep 2020 00:00	33.79	40.5	42.06	10.47	0.05
16 Sep 2020 12:00	45.92	37.9	44.09	10.59	0.05
17 Sep 2020 00:00	32.14	42.04	43.34	10.57	0.05
17 Sep 2020 12:00	76.31	56.65	43.53	10.63	0.06
18 Sep 2020 00:00	65.32	53.09	43.97	10.66	0.06
18 Sep 2020 12:00	107.46	37.58	44.67	10.57	0.04
19 Sep 2020 00:00	46.98	28.01	44.75	10.62	0.04
19 Sep 2020 12:00	72.54	37.69	43.22	10.65	0.04
20 Sep 2020 00:00	85.02	49.39	42.2	10.51	0.05
20 Sep 2020 12:00	71.91	38.1	42.4	10.31	0.05
21 Sep 2020 00:00			43.95	10.55	0.04

21 Sep 2020 12:00	36.99	32.95	43.28	10.54	0.04
22 Sep 2020 00:00	32.03	19.59	43.73	10.48	0.03
22 Sep 2020 12:00	26.39	16.04	43.72	10.54	0.03
23 Sep 2020 00:00	9.03	17.99	43.95	10.52	0.03
23 Sep 2020 12:00	4.34	14.85	43.73	10.53	0.03
24 Sep 2020 00:00	4.9	12.04	44.19	10.61	0.03
24 Sep 2020 12:00	22.38	21.61	44.65	10.59	0.03
25 Sep 2020 00:00	29.64	30.53	44.16	10.55	0.03
25 Sep 2020 12:00	75.68	33.17	44.74	10.59	0.03
26 Sep 2020 00:00	77.36	30.77	44.44	10.63	0.03
26 Sep 2020 12:00	61.65	23.66	44.59	10.61	0.03
27 Sep 2020 00:00	65.84	22.49	44.45	10.58	0.03
27 Sep 2020 12:00	35.5	18.89	44.92	10.48	0.03
28 Sep 2020 00:00	21.56	14.75	44.86	10.54	0.03
28 Sep 2020 12:00	55.76	16.08	44.88	10.57	0.03
29 Sep 2020 00:00	19.61	17.65	44.83	10.54	0.03
29 Sep 2020 12:00	74.26	45.36	44.75	10.56	0.05
30 Sep 2020 00:00	66.18	35.19	44.97	10.55	0.05
30 Sep 2020 12:00	104.57	48.68	42.21	10.53	0.05

Data Report

FromTime : 01 Sep 2020 00:00:00 ToTime : 01 Oct 2020 00:00:00 Interval : hour

Narsingam Worker Colony

Time	AAQMS2-PM10- µg/m3	AAQMS2-PM2.5- µg/m3	AAQMS2-SO2- µg/m3	AAQMS2-NO2- µg/m3	AAQMS2-CO- mg/m3
01 Sep 2020 00:00	48.29	13.6	8.47	24.8	0.02
01 Sep 2020 12:00	77.67	21.53	7.97	24.88	0.05
02 Sep 2020 00:00	45.33	20.16	7.77	24.79	0.03
02 Sep 2020 12:00	37.67	17.33	11.96	24.86	0.03
03 Sep 2020 00:00	16.19	13.61	11.93	24.89	0.03
03 Sep 2020 12:00	13.64	10	11.9	24.82	0.01
04 Sep 2020 00:00	13.04	9.05	11.91	24.87	0.01
04 Sep 2020 12:00	26.11	11.72	11.87	24.85	0.02
05 Sep 2020 00:00	17.5	16.33	11.93	24.89	0.02
05 Sep 2020 12:00	31.59	15.6	12	24.79	0.01
06 Sep 2020 00:00	24.82	17.94	13.05	24.48	0.01
06 Sep 2020 12:00	63.14	28.65	17.94	22.78	0.04
07 Sep 2020 00:00	41.36	26.92	16.67	23.03	0.05
07 Sep 2020 12:00	33	21.92	19.37	22.5	0.03
08 Sep 2020 00:00	49.08	25.08	17.13	23.05	0.02
08 Sep 2020 12:00	33.55	20.67	20.63	22.38	0.05
09 Sep 2020 00:00		19.75	16.58	23.23	0.03
09 Sep 2020 12:00		13.18	17.46	22.9	0.03
10 Sep 2020 00:00	97	12.83	15.14	23.66	0.03
10 Sep 2020 12:00	40.58	31.25	13.38	24.9	0.04
11 Sep 2020 00:00	23.08	12.08	13.29	24.85	0.02
11 Sep 2020 12:00	73.92	39.32	13.35	24.72	0.07
12 Sep 2020 00:00	54.75	39.42	13.43	24.89	0.06
12 Sep 2020 12:00	72.77	47	13.45	24.87	0.1
13 Sep 2020 00:00	68.12	45.35	13.44	24.77	0.08
13 Sep 2020 12:00	51	36.06	13.44	24.87	0.05
14 Sep 2020 00:00	40.45	25.71	13.45	24.78	0.04
14 Sep 2020 12:00	42.31	25.48	13.48	24.87	0.04
15 Sep 2020 00:00	29.93	23.75	13.53	24.84	0.04
15 Sep 2020 12:00	32.5	23.05	13.51	24.8	0.03
16 Sep 2020 00:00	31.96	24.48	13.58	24.9	0.04
16 Sep 2020 12:00	56.92	32.61	13.71	24.87	0.06
17 Sep 2020 00:00	38.68	30.68	13.71	24.86	0.04
17 Sep 2020 12:00	150.34	72.64	13.78	24.79	0.1
18 Sep 2020 00:00	82.56	53.28	13.73	24.86	0.07
18 Sep 2020 12:00	75.81	35.02	13.68	24.9	0.05
19 Sep 2020 00:00	28.31	22	13.72	24.88	0.03
20 Sep 2020 00:00	99.05	63.06	13.91	24.81	0.07
20 Sep 2020 12:00	70.87	45.96	13.99	24.81	0.08
21 Sep 2020 00:00	73.61	46.82	13.86	24.8	0.06
21 Sep 2020 12:00	63.33	39.6	13.95	24.78	0.06

22 Sep 2020 00:00	54.97	26.07	14	24.82	0.04
22 Sep 2020 12:00	60.66	21.83	14.03	24.74	0.03
23 Sep 2020 00:00	17.9	13.95	13.97	24.7	0.01
23 Sep 2020 12:00	10.52	8.78	13.93	24.87	0.01
24 Sep 2020 00:00	10.55	8.9	13.99	24.78	0.02
24 Sep 2020 12:00	22.31	15.94	13.97	24.75	0.03
25 Sep 2020 00:00	32.48	23.12	14.01	24.86	0.03
25 Sep 2020 12:00	54.34	31.07	14.17	24.76	0.04
26 Sep 2020 00:00	28.01	19.33	14.11	24.81	0.03
26 Sep 2020 12:00	34.62	21.67	14.12	24.76	0.03
27 Sep 2020 00:00	23.73	17.24	14.15	24.88	0.03
27 Sep 2020 12:00	43.91	25.02	14.14	24.76	0.04
28 Sep 2020 00:00	35.6	28	14.21	24.93	0.04
28 Sep 2020 12:00	36.74	23.67	14.23	24.82	0.04
29 Sep 2020 00:00	34.54	24.56	14.25	24.88	0.05
29 Sep 2020 12:00	96.84	57.18	14.32	24.74	0.1
30 Sep 2020 00:00	55.8	36.87	14.35	24.71	0.07
30 Sep 2020 12:00	109.24	61.09	14.38	24.69	0.14

Data Report

FromTime : 01 Sep 2020 00:00:00 ToTime : 01 Oct 2020 00:00:00 Interval : hour

Narsingam Hospital

Time	AAQMS3-PM-10- µg/m ³	AAQMS3-PM-2.5- µg/m ³	AAQMS3-CO- mg/m ³	AAQMS3-NO ₂ - µg/m ³	AAQMS3-SO ₂ - µg/m ³
01 Sep 2020 00:00	43.67	15.33	0.21	6.44	20.49
01 Sep 2020 12:00	75.53	27.28	0.22	6.1	21.07
02 Sep 2020 00:00	72.93	24.21	0.22	5.93	20.8
02 Sep 2020 12:00	29.22	14.49	0.21	6.08	21.24
03 Sep 2020 00:00	34.56	17.44	0.24	6.47	20.98
03 Sep 2020 12:00	24.02	12.28	0.17	6.63	21.63
04 Sep 2020 00:00	33.14	12.44	0.19	6.13	20.95
04 Sep 2020 12:00	42.31	17.27	0.19	6.14	21.69
05 Sep 2020 00:00	48.73	19.91	0.22	6.1	22.22
05 Sep 2020 12:00	43.22	19.15	0.18	5.92	22.43
06 Sep 2020 00:00		23.45	0.21	6.19	20.36
06 Sep 2020 12:00		33.21	0.22	5.98	20.13
07 Sep 2020 00:00	67.5	36.06	0.29	5.99	20.5
07 Sep 2020 12:00	79.44	39.82	0.23	5.95	22.14
08 Sep 2020 00:00	57.35	29.29	0.23	6.46	21.98
08 Sep 2020 12:00	66.09	29.44	0.27	6.11	22.48
09 Sep 2020 00:00	51.76	27.73	0.24	6.14	22.34
09 Sep 2020 12:00	55.44	26.84	0.25	5.99	22.56
10 Sep 2020 00:00	64.39	22.33	0.24	6.06	22.89
10 Sep 2020 12:00	47.36	28.93	0.26	6.27	23.09
11 Sep 2020 00:00	36.93	15.66	0.22	5.98	22.82
11 Sep 2020 12:00	75.31	38.6	0.27	6.6	23.57
12 Sep 2020 00:00	88.5	45.23	0.35	6.18	23.05
12 Sep 2020 12:00	91.63	66.56	0.45	6.7	23.67
13 Sep 2020 00:00	78.29	55.93	0.4	6.75	23.21
13 Sep 2020 12:00	50.09	39.9	0.26	6.07	23.52
14 Sep 2020 00:00	45.53	31.65	0.27	6.24	23.02
14 Sep 2020 12:00	44.2	29.47	0.26	6.49	37.79
15 Sep 2020 00:00	58	30	0.31	5.06	47.8
15 Sep 2020 12:00	39.84	20.9	0.24	6.72	26.28
16 Sep 2020 00:00	53	11	0.28	5.83	20.63
16 Sep 2020 12:00	83.79	34.3	0.31	6.13	28.79
17 Sep 2020 00:00	59.86	37.86	0.3	6.23	26.21
17 Sep 2020 12:00	130.92	77.23	0.45	6.15	26.36
18 Sep 2020 00:00	116.38	68.34	0.41	6.15	26.72
18 Sep 2020 12:00	68.51	33.67	0.24	6.09	27.12
19 Sep 2020 00:00	56.72	26.01	0.23	6.14	27.57
19 Sep 2020 12:00	72.16	44.5	0.3	6.02	27.67
20 Sep 2020 00:00	87.01	58.8	0.36	6.13	27.52
20 Sep 2020 12:00	67.83	48.75	0.37	6.02	27.86
21 Sep 2020 00:00	63.25	51.38	0.33	6.57	27.66

21 Sep 2020 12:00	42.97	36.13	0.27	5.93	27.63
22 Sep 2020 00:00	35.33	27.47	0.25	6.47	27.41
22 Sep 2020 12:00	31.6	27.88	0.23	6.26	28.02
23 Sep 2020 00:00	27.24	15.4	0.18	6.16	27.79
23 Sep 2020 12:00	33.36	14.69	0.2	6.26	28.1
24 Sep 2020 00:00	41.55	11.82	0.2	6.15	27.94
24 Sep 2020 12:00	98.46	26.1	0.21	5.96	28.35
25 Sep 2020 00:00	65.51	29.23	0.23	6	28.13
25 Sep 2020 12:00	70.15	38.68	0.31	6.5	28.75
26 Sep 2020 00:00	46.41	18.83	0.23	6.31	28.41
26 Sep 2020 12:00	45.57	20	0.23	6.15	29.02
27 Sep 2020 00:00	32.47	16.52	0.22	6.11	28.61
27 Sep 2020 12:00	34.1	17.88	0.22	6.52	28.86
28 Sep 2020 00:00	43.96	24.38	0.28	6.26	28.82
28 Sep 2020 12:00	36.68	19.09	0.24	5.71	29.31
29 Sep 2020 00:00	34.25	20	0.27	6.16	29.11
29 Sep 2020 12:00	69.53	36.2	0.39	6.18	29.57
30 Sep 2020 00:00	61.03	30.12	0.34	6.21	29.28
30 Sep 2020 12:00	84.93	47.8	0.48	6.23	29.64

Report Name : Average Report

From: 01-09-2020 - 00:00:00 To: 30-09-2020 - 23:59:00

Date (DD-MM-YYYY)	AAQMS_1 PM10 (ug/m3)Normalized	AAQMS_1 SO2 (ug/m3)Normalized	AAQMS_1 NO2 (ug/m3)Normalized	AAQMS 1 PM2.5 (ug/m3) Normalized	AAQMS_1 NOx (ug/m3)Normalized	AAQMS_1 NO (ug/m3)Normalized
Avg	73.62	31.52	1.54	52.27	4.52	2.12
Min	19.73	29.76	1.42	10.45	4.00	1.85
Max	128.39	40.33	1.59	372.11	4.74	2.23
Geom.Mean	73.62	31.52	1.54	52.27	4.52	2.12
Median	26.05	2.26	0.04	76.33	0.13	0.07
Mode	99.25	30.76	1.53	25.62	4.51	2.12
Std.Deviation	78.16	30.76	1.53	29.35	4.53	2.12
Prescribed Standard	100.0	80.0	80.0	60.0	80.0	80.0
First Max occurred at	18-09-2020	16-09-2020	21-09-2020	15-09-2020	24-09-2020	24-09-2020
First Min occurred at	22-09-2020	01-09-2020	16-09-2020	22-09-2020	16-09-2020	16-09-2020
Valid Data Points	29	29	29	29	29	29
Total Data Points	29	29	29	29	29	29
Data Availability %	100	100	100	100	100	100
Uncertainty	0	0	0	0	0	0
01-09-2020	99.25	29.76	1.52	25.62	4.51	2.12
02-09-2020	89.27	29.92	1.53	26.18	4.51	2.11
03-09-2020	55.48	29.97	1.54	15.27	4.51	2.11
04-09-2020	49.54	30.03	1.56	16.21	4.56	2.13
05-09-2020	66.89	30.16	1.52	19.9	4.51	2.12
06-09-2020	84.79	30.24	1.56	35.04	4.56	2.13
07-09-2020	59.96	30.4	1.51	29.35	4.49	2.11
08-09-2020	53.58	30.55	1.53	26.72	4.5	2.11
09-09-2020	54.82	30.35	1.55	22.15	4.51	2.11
10-09-2020	78.16	30.38	1.53	28.09	4.51	2.11
11-09-2020	73.39	30.69	1.57	32.77	4.53	2.09
12-09-2020	93.26	30.52	1.53	56.07	4.53	2.12
13-09-2020	86.47	30.88	1.55	49.57	4.53	2.12



Real Time Data Acquisition And Monitoring



14-09-2020	79.68	31.17	1.54	36.37	4.53	2.12
15-09-2020	55.81	37.97	1.46	372.11	4.15	1.92
16-09-2020	35.21	40.33	1.42	277.62	4	1.85
17-09-2020	116.82	30.76	1.56	67.38	4.58	2.14
18-09-2020	128.39	30.71	1.53	46.36	4.58	2.16
19-09-2020	55.01	30.76	1.53	23.79	4.58	2.15
20-09-2020	79.45	31.09	1.56	32.1	4.62	2.17
21-09-2020	46.95	31.28	1.59	22.87	4.59	2.12
22-09-2020	19.73	31.26	1.49	10.45	4.54	2.16
23-09-2020	31.6	31.46	1.58	18.44	4.59	2.14
24-09-2020	112.02	31.48	1.59	24.68	4.74	2.23
25-09-2020	111.43	31.55	1.52	56.58	4.6	2.17
26-09-2020	57.51	31.68	1.52	28.41	4.56	2.15
28-09-2020	91.02	32.7	1.53	39.45	4.55	2.17
29-09-2020	88.08	32.89	1.53	38.25	4.52	2.12
30-09-2020	81.42	33.07	1.59	38.13	4.6	2.14

Report Name : Average Report(Continued)

Date (DD-MM-YYYY)	AAQMS_1 CO (mg/m3)Normalized
Avg	0.26
Min	0.00
Max	0.41
Geom.Mean	0.26
Median	0.09
Mode	0.32
Std.Deviation	0.27
Prescribed Standard	4.0
First Max occurred at	17-09-2020
First Min occurred at	16-09-2020
Valid Data Points	29
Total Data Points	29
Data Availability %	100
Uncertainty	0
01-09-2020	0.3
02-09-2020	0.33
03-09-2020	0.32
04-09-2020	0.31
05-09-2020	0.32
06-09-2020	0.33
07-09-2020	0.34
08-09-2020	0.35
09-09-2020	0.34
10-09-2020	0.32
11-09-2020	0.25
12-09-2020	0.27
13-09-2020	0.26
14-09-2020	0.2
15-09-2020	0.06

16-09-2020	0
17-09-2020	0.41
18-09-2020	0.26
19-09-2020	0.23
20-09-2020	0.29
21-09-2020	0.27
22-09-2020	0.21
23-09-2020	0.17
24-09-2020	0.17
25-09-2020	0.27
26-09-2020	0.19
28-09-2020	0.21
29-09-2020	0.24
30-09-2020	0.31

Report Name : Average Report

From: 01-09-2020 - 00:00:00 To: 30-09-2020 - 23:59:00

Date (DD-MM-YYYY)	AAQMS_2 NOx (ug/m3)Normalized	AAQMS_2 NO (ug/m3)Normalized	AAQMS_2 CO (mg/m3)Normalized	AAQMS_2 SO2 (ug/m3)Normalized	AAQMS_2 NO2 (ug/m3)Normalized	AAQMS 2 PM2.5 (ug/m3) Normalized
Avg	4.46	2.24	0.11	18.61	1.23	23.43
Min	4.44	2.22	0.08	18.61	1.19	12.17
Max	4.48	2.25	0.14	18.61	1.25	41.10
Geom.Mean	4.46	2.24	0.11	18.61	1.23	23.43
Median	0.01	0.01	0.02	0	0.01	7.43
Mode	4.46	2.24	0.1	18.61	1.23	15.44
Std.Deviation	4.46	2.24	0.1	18.61	1.23	22.27
Prescribed Standard	80.0	80.0	4.0	80.0	80.0	60.0
First Max occurred at	01-09-2020	15-09-2020	20-09-2020	01-09-2020	01-09-2020	20-09-2020
First Min occurred at	15-09-2020	22-09-2020	06-09-2020	01-09-2020	15-09-2020	11-09-2020
Valid Data Points	27	27	27	27	27	27
Total Data Points	27	27	27	27	27	27
Data Availability %	100	100	100	100	100	100
Uncertainty	0	0	0	0	0	0
01-09-2020	4.48	2.24	0.1	18.61	1.25	15.44
02-09-2020	4.47	2.24	0.1	18.61	1.24	18.17
03-09-2020	4.46	2.24	0.1	18.61	1.24	14.89
04-09-2020	4.46	2.24	0.09	18.61	1.23	16.05
05-09-2020	4.46	2.23	0.09	18.61	1.25	17.62
06-09-2020	4.45	2.23	0.08	18.61	1.23	22.27
07-09-2020	4.47	2.23	0.1	18.61	1.25	25.76
08-09-2020	4.45	2.23	0.11	18.61	1.23	26.08
09-09-2020	4.45	2.23	0.11	18.61	1.24	20.94
10-09-2020	4.45	2.24	0.11	18.61	1.22	21.91
11-09-2020	4.45	2.24	0.1	18.61	1.23	12.17
15-09-2020	4.44	2.25	0.11	18.61	1.19	20.09
16-09-2020	4.48	2.25	0.12	18.61	1.23	25.36

17-09-2020	4.48	2.24	0.13	18.61	1.25	39.73
18-09-2020	4.47	2.24	0.13	18.61	1.24	35.18
19-09-2020	4.46	2.24	0.12	18.61	1.22	32.08
20-09-2020	4.46	2.23	0.14	18.61	1.23	41.1
21-09-2020	4.44	2.23	0.14	18.61	1.23	33.07
22-09-2020	4.45	2.22	0.1	18.61	1.24	21.39
23-09-2020	4.46	2.23	0.09	18.61	1.23	15.03
24-09-2020	4.47	2.24	0.09	18.61	1.23	14.17
25-09-2020	4.45	2.23	0.1	18.61	1.23	28.03
26-09-2020	4.47	2.24	0.1	18.61	1.24	22.29
27-09-2020	4.46	2.24	0.1	18.61	1.23	22.96
28-09-2020	4.44	2.24	0.1	18.61	1.22	23.28
29-09-2020	4.44	2.23	0.11	18.61	1.22	25.56
30-09-2020	4.46	2.24	0.13	18.61	1.24	21.94

Report Name : Average Report(Continued)

Date (DD-MM-YYYY)	AAQMS_2 PM10 (ug/m3)Normalized
Avg	123.18
Min	36.76
Max	269.70
Geom.Mean	123.18
Median	55.16
Mode	36.76
Std.Deviation	113.57
Prescribed Standard	100.0
First Max occurred at	21-09-2020
First Min occurred at	01-09-2020
Valid Data Points	27
Total Data Points	27
Data Availability %	100
Uncertainty	0
01-09-2020	36.76
02-09-2020	122.41
03-09-2020	110.14
04-09-2020	148.39
05-09-2020	150.57
06-09-2020	102.65
07-09-2020	63.75
08-09-2020	67.39
09-09-2020	99.3
10-09-2020	134.28
11-09-2020	111.52
15-09-2020	61.47
16-09-2020	70.45
17-09-2020	97.2
18-09-2020	145.71

19-09-2020	201.59
20-09-2020	113.57
21-09-2020	269.7
22-09-2020	263.34
23-09-2020	174.37
24-09-2020	139.6
25-09-2020	114.08
26-09-2020	124.13
27-09-2020	99.81
28-09-2020	151.22
29-09-2020	102.74
30-09-2020	49.72

DIAMOND CEMENTS - DAMOH

PERFORMANCE OF ESPs/ BAG HOUSES

Sep-20

PCM ATTACHED TO	Plant Operation		PCM Operation		PCM Stoppage Hrs.	No. OF ESP Trippings	% OF ESP		Remarks
	Hrs.	Min	Hrs.	Min			Trippings	R.Hrs	
ESP To KILN NO. 1 + RAW MILL NO.1	0	0	0	0	0.000	0	0.00		
ESP To KILN NO. 2 + RAW MILL NO. 2	682	10	682	10	0.000	0	100.00		
REVERSE AIR BAG HOUSE(RABH) To KILN NO. 3 + RAW MILL NO. 3	536	5	536	5	0.000	0			
BAG HOUSE To COAL MILL NO. 1	0	0	0	0	0.000	0			
BAG HOUSE To COAL MILL NO. 2	523	30	523	30	0.000	0			
BAG HOUSE To COAL MILL NO. 3	497	35	497	35	0.000	0			
ESP To COOLER NO. 1	0	0	0	0	0.000	0	0.00		
ESP To COOLER NO. 2	682	10	682	8	0.033	2	99.995		
ESP To COOLER NO. 3	536	5	536	5	0.000	0	100.00		
BAG HOUSE To CEMENT MILL NO. 1	589	9	589	9	0.000	0			
BAG HOUSE To CEMENT MILL NO. 2	312	35	312	35	0.000	0			
BAG HOUSE To CEMENT MILL NO. 3	142	50	142	50	0.000	0			

DIAMOND CEMENTS DAMOH

Energy Meter Reading

Month : September - 20

S.No.	Location	Month	Consumption (KWH)	Remarks, If Any
Clinkerisation Unit Narsingarh				
1	Hybrid ESP For KILN/ RAW MILL NO.1	Sep-20	0	
2	Hybrid ESP For KILN/ RAW MILL NO.2	Sep-20	8153	
3	RABH For KILN / RAW MILL NO. 3	Sep-20	127310	
4	ESP For COOLER NO. 1	Sep-20	0	
5	ESP For COOLER NO. 2	Sep-20	28833	
6	ESP For COOLER NO. 3	Sep-20	11430	
7	BAG HOUSE For COAL MILL NO. 1	Sep-20	0	
8	BAG HOUSE For COAL MILL NO. 2	Sep-20	112326	
9	BAG HOUSE For COAL MILL NO. 3	Sep-20	238301	
10	SEWAGE TREATMENT PLANT	Sep-20	8963	
Grinding Unit Imlai				
1	BAG HOUSE For CEMENT MILL NO. 1	Sep-20	7916	
2	BAG HOUSE For CEMENT MILL NO. 2	Sep-20	7131	
3	BAG HOUSE For CEMENT MILL NO. 3	Sep-20	3693	
4	SEWAGE TREATMENT PLANT	Sep-20	13720	

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, IIInd 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
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, ANF 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**

LAS UID No: **MSCB-132-76321**

Date of initial registration: **15 July 2015**

Date of this Certificate: **14 July 2018**

Surveillance auditor on before: **14 July 2019**

Recertification Due / Certificate expiry: **14 July 2021**

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

[Signature]
Director

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



ACCREDITED

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