

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

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

HeidelbergCement India Limited  
CIN: L26942HR1958FLC042301  
Village and P. O. Narsingarh  
District Damoh,  
Madhya Pradesh 470675  
Phone +91-7601-241301, 02 & 05  
Fax +91-7601-241235  
Website: www.mycemco.com

**Jul 07, 2021****Sub.: Monthly Environmental Monitoring Reports for Jun-2021**

Sir,

Please find enclosed herewith the Environmental Monitoring Report of the following for the month of **Jun- 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, Fugitive 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, Stack Monitoring, Fugitive 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, Stack Monitoring, Fugitive 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**

Registered Office:  
2<sup>nd</sup> Floor, Plot No. 68, Sector-44,  
Gurugram, Haryana 122002



# Environmental Monitoring Report



(MONTHLY REPORT: JUNE-2021)

**Sponsor:**

**HEIDELBERGCEMENT**

M/s. DIAMOND CEMENTS  
(Prop. HeidelbergCement India Limited)  
Village & Post: Narsingarh,  
Damoh, Madhya Pradesh, India.

**Report Prepared by:**

**Vimta**  
Driven by Quality Inspired by Balance

**Vimta Labs Ltd.**

142, IDA, Phase-II, Cherlapally  
Hyderabad-500 051

env@vimta.com, www.vimta.com

*(QCI/NABET Accredited EIA Consultancy Organization,  
NABL Accredited & ISO 17025 Certified and MoEF & CC Recognized Laboratory)*

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**Environmental Monitoring Reports:**

***Clinkerisation Unit (Prop: HCIL), Narsingarh, Damoh, M.P.***



TC-5418

**ISSUED TO:**

M/s. DIAMOND CEMENTS.  
(Prop: Heidelberg Cement India Limited),  
A1& PO: Narsingarh, Dist: Damoh,  
Madhya Pradesh-470675, India.

Report Number : VLL/VLS/21/03363/001  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : AMBIENT AIR QUALITY MONITORING  
**Place of Work/Plant/Mines** : Diamond Cements- Clinkerisation Unit (Prop: HCL), Narsingarh, Damoh, M.P.

## TEST REPORT

Location Name	Date/Time*	PM <sub>2.5</sub>		Time	CO		SO <sub>2</sub>		NO <sub>2</sub>	
		04.06.2021	03.06.2021		04.06.2021	04.06.2021	04.06.2021	04.06.2021		
Near Hospital	06:00 am	25.61	36.51	06:00 am to 10:00	390	10.26	12.18			
				10:00 am to 02:00	370	8.51	12.73			
				02:00 pm to 06:00	370	9.88	13.05			
				06:00 pm to 10:00	330	10.92	14.56			
				10:00 pm to 02:00	330	7.86	12.21			
				02:00 am to 06:00	330	9.14	11.85			
				<b>Average Value</b>	<b>363</b>	<b>9.43</b>	<b>12.76</b>			
Near Gate of Mine Pit No.1	06:20 am	34.81	40.71	06:20 am to 10:20	390	9.61	12.12			
				10:20 am to 02:20	370	10.92	13.83			
				02:20 pm to 06:20	370	10.42	12.51			
				06:20 pm to 10:20	330	7.19	11.31			
				10:20 pm to 02:20	330	8.96	12.27			
				02:20 am to 06:20	330	10.83	14.11			
				<b>Average Value</b>	<b>363</b>	<b>9.65</b>	<b>12.69</b>			
Near STP Area	06:40 am	28.62	45.48	06:40 am to 10:40	330	9.14	11.62			
				10:40 am to 02:40	390	8.09	13.15			
				02:40 pm to 06:40	390	9.61	13.69			
				06:40 pm to 10:40	370	10.86	12.18			
				10:40 pm to 02:40	370	8.64	12.89			
				02:40 am to 06:40	370	10.16	13.63			
				<b>Average Value</b>	<b>363</b>	<b>9.42</b>	<b>12.86</b>			
Near Worker Colony	07:00 am	23.58	39.74	07:00 am to 11:00	360	10.94	12.27			
				11:00 am to 03:00	330	8.07	13.12			
				03:00 pm to 07:00	330	9.59	13.80			
				07:00 pm to 11:00	340	10.23	11.93			
				11:00 pm to 03:00	340	8.34	12.30			
				03:20 am to 07:00	340	9.01	13.69			
				<b>Average Value</b>	<b>343</b>	<b>9.36</b>	<b>12.85</b>			

**Ambient Air Quality Standards as per MoEF&CC GSR Notification 824E**

S.NO.	Standard	Time	PM 2.5	PM 10	SO2	NO2	CO
1	(µg/m <sup>3</sup> )	24 hours	≤ 60.0	≤ 100.0	≤ 80.0	≤ 80.0	≤ 2000
2		Annual	≤ 40.0	≤ 60.0	≤ 50.0	≤ 40.0	-

\* Time mentioned above is the initial Time of Sampling.  
Below Detection Limits for SO<sub>2</sub> is 4.0 µg/m<sup>3</sup> and NO<sub>2</sub> is 6.0 µg/m<sup>3</sup>  
All Units are Expressed in µg/m<sup>3</sup>



*Dr. SubbaReddy Mallampati*  
Group Leader - Environment



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**ISSUED TO:**

M/s. DIAMOND CEMENTS.  
(Prop: Heidelberg Cement India Limited),  
At& PO: Narsingarh, Dist: Damoh,  
Madhya Pradesh-470675, India.

Report Number : VLL/VLS/21/03363/005  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : AMBIENT NOISE MONITORING  
**Place of Work/Plant/Mines** : Diamond Cements- Clinkerisation Unit (Prop: HCIL), Narsingarh, Damoh, M.P.  
**Date of Monitoring** : 03-06-2021

## TEST REPORT

Sr. No.	Name of the Location	Leq Value in dB(A)	
		Day Time	Night Time
1.	Near Hospital	47.4	41.4
2.	Near Gate of Mine Pit No.1	58.8	52.3
3.	Near STP Area	62.4	56.5
4.	Near Worker Colony	45.4	42.1

Ambient Noise Standards as per The Noise Pollution (Regulation And Control) Rules, 2000 S.O. 50 (E)			
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:**

- Day time is reckoned in between 6:00 AM and 10:00 PM.
- Night time is reckoned in between 10:00 PM and 6:00 AM
- 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.
- 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.



*Dr. SubbaReddy Mallampati*  
Dr. SubbaReddy Mallampati  
Group Leader - Environment

**Vimta Labs Limited**

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**M/s. DIAMOND CEMENTS.**  
(Prop: Heidelberg Cement India Limited),  
At& PO: Narsingarh, Dist: Damoh,  
Madhya Pradesh-470675, India.

Report Number : VLL/VLS/21/03363/008  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS : STACK EMISSION MONITORING**  
Place of Work/Plant/Mines : Diamond Cements- Clinkerisation Unit (Prop: HCIL), Narsingarh, Damoh, M.P.

**TEST REPORT**

Stack ID/Code		S-1	S-2	S-3
Date of Monitoring	UoM	12.06.2021	25.06.2021	01.06.2021
<b>Stack Details</b>				
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 Ground level	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	Sq.m	1.65	1.65	3.53
Ambient Temp	°C	27	30	30
Stack Gas Temp	°C	48	65	68
Exit Velocity of Gas	m/sec	7.52	11.63	11.91
Volumetric Flow Rate	Nm <sup>3</sup> / sec	10.75	15.72	30.29
<b>Test Conducted</b>				
Particulate Matter(PM) by Iso-kinetic Sampling	mg/Nm <sup>3</sup>	12.4	17.7	13.7

**Standard for Stack Emission:  $\leq 30.0$  mg/Nm<sup>3</sup>**

**Note:**

**Stack ID/Code:**  
S-1: Coal Mill-1  
S-2: Coal Mill-2  
S-3: Coal Mill-3

**Dr. SubbaReddy Mallampati**  
Group Leader – Environment



TC-5418

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M/s. DIAMOND CEMENTS.  
(Prop: Heidelberg Cement India Limited),  
At& PO: Narsingarh, Dist: Damoh,  
Madhya Pradesh-470675, India.

Report Number : VLL/VLS/21/03363/009  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : **STACK EMISSION MONITORING**  
**Place of Work/Plant/Mines** : **Diamond Cements- Clinkerisation Unit (Prop: HCIL), Narsingarh, Damoh, M.P.**

## TEST REPORT

Stack ID/Code		S-7	S-8	S-9	S-10
Date of Monitoring	UoM	15.06.2021	14.06.2021	24.06.2021	26.06.2021
<b>Stack Details</b>					
Material of Construction (Stack/Duct)	--	M.S.	M.S.	M.S.	M.S.
Stack Attached to	--	Clinker Cooler No-1	Clinker Cooler No-2	Clinker Cooler No-3	Crusher
Name of Air Pollution Control Device	--	ESP	ESP	ESP	Bag House
Stack Height above the Ground level	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	Sq.m	6.95	11.05	11.05	0.282
Ambient Temp	°C	31	36	37	35
Stack Gas Temp	°C	110	105	126	40
Exit Velocity of Gas	m/sec	6.8	8.1	9.38	6.56
Volumetric Flow Rate	Nm <sup>3</sup> / sec	34.71	66.34	72.8	2.97
<b>Test Conducted</b>					
Particulate Matter(PM) by Iso-kinetic Sampling	mg/Nm <sup>3</sup>	14.8	15.8	16.1	22.1

**Standard for Stack Emission: ≤ 30.0 mg/Nm<sup>3</sup>**

**Note:**

**Stack ID/Code:**

**S-7: Clinker Cooler No-1**

**S-8: Clinker Cooler No-2**

**S-9: Clinker Cooler No-3**

**S-10: Crusher**



*Dr. SubbaReddy Mallampati*  
**Dr. SubbaReddy Mallampati**  
Group Leader - Environment



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(Prop: Heidelberg Cement India Limited),  
At& PO: Narsingarh, Dist: Damoh,  
Madhya Pradesh-470675, India.

Report Number : VLL/VLS/21/03363/013  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : **STACK EMISSION MONITORING**  
**Place of Work/Plant/Mines** : **Diamond Cements- Clinkerisation Unit (Prop: HCL), Narsingarh, Damoh, M.P.**

**TEST REPORT**

Stack ID/Code		S-4	S-5	S-6
<b>Date of Monitoring</b>	UoM	22.06.2021	03.06.2021	28.06.2021
<b>Stack Details</b>				
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 Ground level	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	Sq.m	4.52	5.51	15.90
Ambient Temp	°C	33	31	25
Stack Gas Temp	°C	120	142	80
Exit Velocity of Gas	m/sec	19.54	18.93	10.57
Volumetric Flow Rate	Nm <sup>3</sup> / sec	60.68	70.32	132.51
<b>Test Conducted</b>				
Particulate Matter(PM) by Iso-kinetic Sampling	mg/Nm <sup>3</sup>	18.8	19.2	20.0
Measured Oxygen	%	12.3	11.1	9.2
Sulphur Dioxide as SO <sub>2</sub>	mg/Nm <sup>3</sup>	12.5	10.3	13.7
Sulphur Dioxide as SO <sub>2</sub> at 10 % O <sub>2</sub> Correction	mg/Nm <sup>3</sup>	15.8	11.4	12.8
Nitrogen Dioxides ,NOx as NO <sub>2</sub>	mg/Nm <sup>3</sup>	502.60	427.61	647.71
Nitrogen Dioxides ,NOx as NO <sub>2</sub> at 10 % O <sub>2</sub> Correction	mg/Nm <sup>3</sup>	635.3	475.1	603.8

**Standard for Stack Emission:**  
PM: ≤ 30.0 mg/Nm<sup>3</sup>;  
SO<sub>2</sub>: ≤ 100 mg/Nm<sup>3</sup> at 10 % O<sub>2</sub>;  
NOx as NO<sub>2</sub>: ≤ 800 mg/Nm<sup>3</sup> at 10 % O<sub>2</sub>

**Note:**  
Stack ID/Code:  
S-4: Kiln / Raw Mill No-1  
S-5: Kiln / Raw Mill No-2  
S-6: Kiln / Raw Mill No-3



*Dr. SubbaReddy Mallampati*  
Group Leader – Environment



**Vimta Labs Limited**

Registered Office  
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TC-5418

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**ISSUED TO:**

M/s. DIAMOND CEMENTS.  
(Prop: Heideiberg Cement India Limited),  
At& PO: Narsingarh, Distt: Damoh,  
Madhya Pradesh-470675, India.

Report Number : VLL/VLS/21/03363/032  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : FUGITIVE EMISSION MONITORING  
**Place of Work/Plant/Mines** : Diamond Cements- Clinkerisation Unit (Prop: HCIL), Narsingarh, Damoh, M.P.

**TEST REPORT**

Sr. No.	Name of the Location	Date	Time of monitoring	SPM ( $\mu\text{g}/\text{m}^3$ )
1	In between Lime Stone Stock Pile & Coal Yard	18.06.2021	09:00 am to 01:00 pm	924
2	Laterite Yard	18.06.2021	02:00 pm to 06:00 pm	895
3	Near Crusher	18.06.2021	09:00 am to 01:00 pm	745
4	Near Raw Mill Silo	18.06.2021	02:00 pm to 06:00 pm	724
5	Clinker Stock Pile	19.06.2021	09:00 am to 01:00 pm	765
6	Lime Stone Stock Area Line-3	19.06.2021	02:00 pm to 06:00 pm	889
7	Coal Stock Area Line-3	19.06.2021	09:00 am to 01:00 pm	866

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

**Dr. SubbaReddy Mallampati**  
Group Leader - Environment



**ISSUED TO:**

M/s. DIAMOND CEMENTS.  
(Prop: Heidelberg Cement India Limited),  
At& PO: Narsingarh, Dist: Damoh,  
Madhya Pradesh-470675, India.

Report Number : V11/VLS/21/03363/015  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

SAMPLE PARTICULARS : Sewage Treatment Plant (STP)  
Place of Work/Plant/Mines : Diamond Cements- Clinkerisation Unit (Prop: HCL), Narsingarh, Damoh, M.P.

Sample Collection Date	: 15.06.2021	Sample Registration Date	: 19.06.2021
Analysis Starting Date	: 19.06.2021	Analysis Completion Date	: 29.06.2021
Samples Collected by Vimta Labs Limited.			

## TEST REPORT

Sr. No.	Parameters	Results		PCB Standards
		STP Inlet	STP Outlet	
1	pH	7.55	7.55	5.5 - 9.0
2	Total Suspended Solid (TSS)	375.1	7.3	10.0
3	Total Dissolved Solid (TDS)	812.9	345.8	-
4	Biochemical Oxygen Demand (3 days at 27 °C)	176.1	5.5	10.0
5	Chemical Oxygen Demand (COD)	67.1	24.3	50.0
6	Oil & Grease (O&G)	1.4	BDL	10.0
7	Sodium Adsorption Ratio (SAR)	1.5	0.84	-
8	Fecal Coliform (FC) MPN/100ml	-	69	1000

Note: All parameters are in mg/l except pH and SAR  
Oil & Grease BDL < 1.0 (mg/l)



*Dr. SubbaReddy Mallampati*

Dr. SubbaReddy Mallampati  
Group Leader-Environment



**ISSUED TO:**

M/s. DIAMOND CEMENTS.  
(Prop: Heidelberg Cement India Limited),  
At& PO: Narsingarh, Dist: Damoh,  
Madhya Pradesh-470675, India.

Report Number : VLL/VLS/21/03363/019  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : Effluent Treatment Plant (ETP) Wastewater  
**Place of Work/Plant/Mines** : Diamond CementsClinkerisation Unit (Prop: HCIL), Narsingarh, Damoh, M.P.

Sample Collection Date	: 15.06.2021	Sample Registration Date	: 19.06.2021
Analysis Starting Date	: 19.06.2021	Analysis Completion Date	: 29.06.2021
Samples Collected by Vimta Labs Limited.			

## TEST REPORT

Sr. No.	Parameters	Results	PCB Standards
1	pH	7.3	5.5 - 9.0
2	Total Suspended Solid (TSS)	14.4	100
3	Total Dissolved Solid (TDS)	435.2	2100
4	Biochemical Oxygen Demand (3 days at 27 °C)	1.5	30
5	Chemical Oxygen Demand (COD)	35.3	250
6	Oil & Grease (O&G)	BDL	10
7	Chlorides	275.1	1000

Note: All parameters are in mg/l except pH  
Oil & Grease BDL < 1.0 (mg/l)



*Dr. SubbaReddy Mallampati*  
Dr. SubbaReddy Mallampati  
Group Leader-Environment

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**Environmental Monitoring Reports:**

***Grinding Unit (Prop: HCIL), Narsingarh, Damoh, M.P.***



TC-5418

**ISSUED TO:**

M/s. DIAMOND CEMENTS.  
(Prop: Heidelberg Cement India Limited),  
At& PO: Narsingarh, Dist: Damoh,  
Madhya Pradesh-470675, India.

Report Number : VLL/VLS/21/03363/002  
issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : AMBIENT AIR QUALITY MONITORING  
**Place of Work/Plant/Mines** : Diamond Cements- Grinding Unit (Prop: HCIL), Imlai, Damoh, M.P.

## TEST REPORT

Location Name	Date/ Time*	PM <sub>2.5</sub>	PM <sub>10</sub>	Time	CO	SO <sub>2</sub>	NO <sub>2</sub>
		15.06.2021	15.06.2021		15.06.2021	15.06.2021	15.06.2021
Near Admin Bld.	06:00 am	27.32	38.43	06:00 am to 10:00	330	7.92	12.30
				10:00 am to 02:00		9.43	12.51
				02:00 pm to 06:00	400	9.61	12.86
				06:00 pm to 10:00		8.43	13.05
				10:00 pm to 02:00		7.46	12.92
				02:00 am to 06:00	390	10.18	13.67
				<b>Average Value</b>	<b>373</b>	<b>8.84</b>	<b>12.89</b>
Near Water Storage Tank (Behind D.G. Sel)	06:20 am	31.79	42.37	06:20 am to 10:20	390	10.86	12.41
				10:20 am to 02:20		9.10	13.83
				02:20 pm to 06:20	370	8.07	12.53
				06:20 pm to 10:20		8.41	12.80
				10:20 pm to 02:20		10.33	12.05
				02:20 am to 06:20	330	9.75	12.47
				<b>Average Value</b>	<b>363</b>	<b>9.42</b>	<b>12.68</b>
Near Railway Siding	06:40 am	33.72	47.22	06:40 am to 10:40	400	10.92	12.70
				10:40 am to 02:40		9.63	12.55
				02:40 pm to 06:40	330	9.21	12.99
				06:40 pm to 10:40		8.49	12.92
				10:40 am to 02:40		7.86	13.12
				02:40 am to 06:40	410	10.33	12.50
				<b>Average Value</b>	<b>380</b>	<b>9.41</b>	<b>12.80</b>
Near Worker Colony	07:00 am	24.31	45.04	07:00 am to 11:00	390	9.56	12.06
				11:00 am to 03:00		8.60	14.38
				03:00 pm to 07:00	410	10.31	12.24
				07:00 pm to 11:00		7.92	12.99
				11:00 pm to 03:00		8.98	12.17
				03:20 am to 07:00	330	10.86	11.73
				<b>Average Value</b>	<b>377</b>	<b>9.37</b>	<b>12.60</b>

**Ambient Air Quality Standards as per MoE, E.O.C. GSR Notification 826E**

S.NO.	UoM	Time	PM 2.5	PM 10	SO2	NO2	CO
1	(µg/m <sup>3</sup> )	24 hours	≤ 60.0	≤ 100.0	≤ 80.0	≤ 80.0	≤ 2000
2		Annual	≤ 40.0	≤ 60.0	≤ 50.0	≤ 40.0	-

\* Time mentioned above is the initial Time of Sampling.  
Below Detection Limits for SO<sub>2</sub> is 4.0 µg/m<sup>3</sup> and NO<sub>2</sub> is 6.0 µg/m<sup>3</sup>  
All Units are Expressed in µg/m<sup>3</sup>



*Dr. SubbaReddy Mallampati*  
Dr. SubbaReddy Mallampati  
Group Leader - Environment



TC-5418

**ISSUED TO:**

M/s. DIAMOND CEMENTS.  
(Prop: Heidelberg Cement India Limited),  
At& PO: Narsingarh, Distt: Damoh,  
Madhya Pradesh-470675, India.

Report Number : VLL/VLS/21/03363/006  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : **AMBIENT NOISE MONITORING**  
**Place of Work/Plant/Mines** : **Diamond Cements- Grinding Unit, (Prop: HCIL), -Imlal, Damoh, M.P. Damoh M.P.**  
**Date of Monitoring** : **15-06-2021**

## TEST REPORT

Sr. No.	Name of the Location	Leq Value in dB(A)	
		Day Time	Night Time
1.	Near ADM Bld.	51.1	45.3
2.	Near Worker Colony	49.5	42.3
3.	Near Railway Siding	63.1	59.2
4.	Near Water Storage Tank (Behind D.G. Set)	61.4	58.1

Ambient Noise Standards as per The Noise Pollution (Regulation And Control) Rules, 2000 S.O. 50 (E)			
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:**

- Day time is reckoned in between 6:00 AM and 10:00 PM.
- Night time is reckoned in between 10:00 PM and 6:00 AM
- 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.
- 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.



*Dr. SubbaReddy Mallampati*  
Group Leader - Environment



TC-5418

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(Prop: Heidelberg Cement India Limited),  
At& PO: Narsingarh, Dist: Damoh,  
Madhya Pradesh-470675, India.

Report Number : VLL/VLS/21/03363/010  
Issued Date : 2021-07-05  
Purchase Order No : 4470559692  
P.O. Date : 24-05-2021

Page 1 of 1

SAMPLE PARTICULARS : STACK EMISSION MONITORING  
Place of Work/Plant/Mines : Diamond Cements- Grinding Unit (Prop: HCIL), Imlai, Damoh, M.P.

**TEST REPORT**

Stack ID/Code		S-1	S-2	S-3
Date of Monitoring	UoM	28.06.2021	09.06.2021	12.06.2021
<b>Stack Details</b>				
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 Ground level	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	Sq.m	1.65	1.77	0.985
Ambient Temp	°C	37	40	40
Stack Gas Temp	°C	85	80	120
Exit Velocity of Gas	m/sec	6.47	8.81	14.44
Volumetric Flow Rate	Nm <sup>3</sup> / sec	8.11	11.94	10.04
<b>Test Conducted</b>				
Particulate Matter(PM) by Iso-kinetic Sampling	mg/Nm <sup>3</sup>	11.4	10.8	12.4

Standard for Stack Emission: ≤ 30.0 mg/Nm<sup>3</sup>

**Note:**

Stack ID/Code:

S-1: Cement Mill No-1

S-2: Cement Mill No-2

S-3: Cement Mill No-3



*(Signature)*

Dr. SubbaReddy Mallampati  
Group Leader – Environment

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**Madhya Pradesh-470675, India.**

Report Number : VLL/VLS/21/03363/011  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 24-05-2021

Page 1 of 1

**SAMPLE PARTICULARS** : **STACK EMISSION MONITORING**  
**Place of Work/Plant/Mines** : **Diamond Cements- Grinding Unit (Prop: HCIL), Imlai, Damoh, M.P.**

**TEST REPORT**

Stack ID/Code		S-4
Date of Monitoring	UoM	03.06.2021
<b>Stack Details</b>		
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 Ground level	m	30
Stack Top	--	Circular
Inside Diameter of Stack	m	0.53
Cross sectional area of Duct/Stack	Sq.m	0.22
Ambient Temp	°C	40
Stack Gas Temp	°C	35
Exit Velocity of Gas	m/sec	20.70
Volumetric Flow Rate	Nm <sup>3</sup> / sec	4.23
<b>Test Conducted</b>		
Particulate Matter(PM) by Iso-kinetic Sampling	mg/Nm <sup>3</sup>	23.4

**Standard for Stack Emission:  $\leq 30.0$  mg/Nm<sup>3</sup>**

**Note:**

**S-4: Packer No-3**



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Report Number : VII/VLS/21/03363/033  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : FUGITIVE EMISSION MONITORING  
**Place of Work/Plant/Mines** : Diamond Cements- Grinding Unit (Prop: HCIL), Imlai, Damoh, M.P.

**TEST REPORT**

Sr. No.	Name of the Location	Date	Time of monitoring	SPM ( $\mu\text{g}/\text{m}^3$ )
1	Clinker Stock Pile	22.06.2021	09:00 am to 01:00 pm	722
2	Coal Yard	22.06.2021	02:00 pm to 06:00 pm	658
3	Gypsum Yard	22.06.2021	09:00 am to 01:00 pm	687
4	Fly ash Handling System	22.06.2021	02:00 pm to 06:00 pm	735
5	Near Cement Silo	23.06.2021	09:00 am to 01:00 pm	812

**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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Report Number : VLL/VLS/21/03363/0014  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : Sewage Treatment Plant (STP)  
**Place of Work/Plant/Mines** : Diamond Cements- Grinding Unit (Prop: HCL), Imial, Damoh, M.P

Sample Collection Date	: 15.06.2021	Sample Registration Date	: 19.06.2021
Analysis Starting Date	: 19.06.2021	Analysis Completion Date	: 29.06.2021
Samples Collected by Vimta Labs Limited.			

**TEST REPORT**

Sr. No.	Parameters	Results		PCB Standards
		STP Inlet	STP Outlet	
1	pH	7.44	7.22	5.5 - 9.0
2	Total Suspended Solid (TSS)	358.1	7.9	10.0
3	Total Dissolved Solid (TDS)	380.2	245.2	-
4	Biochemical Oxygen Demand (3 days at 27 °C)	203.5	6.5	10.0
5	Chemical Oxygen Demand (COD)	382.0	23.2	50.0
6	Oil & Grease (O&G)	1.5	BDL	10.0
7	Sodium Adsorption Ratio (SAR)	1.6	1.1	-
8	Fecal Coliform (FC) MPN/100ml	-	75	1000

**Note:** All parameters are in mg/l except pH and SAR  
Oil & Grease BDL < 1.0 (mg/l)



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CIN : L24110TG1990PLC011977

The page features an abstract graphic design. It consists of three overlapping circles of varying shades of gray, arranged in a triangular pattern. Two thin, light gray diagonal lines intersect at the center of the page, forming an 'X' shape. The circles are positioned in the top right, middle right, and bottom right areas of the page.

**Environmental Monitoring Reports:**

***Patharia Lime Stone Mines (Prop: HCIL), Narsingarh, Damoh, M.P.***

**Vimta Labs Limited**

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Report Number : VLL/VLS/21/03363/003  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : AMBIENT AIR QUALITY MONITORING  
**Place of Work/Plant/Mines** : Diamond Cements- Patharia Lime Stone Mines (Prop: HCIL), Damoh, M.P.

## TEST REPORT

Location Name	Date/ Time*	PM <sub>2.5</sub>	PM <sub>10</sub>	Time	CO	SO <sub>2</sub>	NO <sub>2</sub>
		02.06.2021	01.06.2021		01.06.2021	01.06.2021	01.06.2021
Near Main Office	06:00 am	22.68	41.37	06:00 am to 10:00	330	8.94	12.57
				10:00 am to 02:00		9.61	13.69
				02:00 pm to 06:00	410	11.43	12.18
				06:00 pm to 10:00		9.10	13.60
				10:00 pm to 02:00	400	7.92	12.08
				02:00 am to 06:00		10.18	11.64
				<b>Average Value</b>	<b>380</b>	<b>9.53</b>	<b>12.63</b>
Near Back Filling Area	06:20 am	32.67	50.69	06:20 am to 10:20	390	10.83	12.38
				10:20 am to 02:20		9.93	11.76
				02:20 pm to 06:20	400	9.12	13.75
				06:20 pm to 10:20		7.77	11.39
				10:20 am to 02:20	380	8.49	14.28
				02:20 am to 06:20		10.23	12.79
				<b>Average Value</b>	<b>390</b>	<b>9.39</b>	<b>12.73</b>
Near Mine Pit	06:40 am	30.50	46.48	06:40 am to 10:40	360	9.58	13.66
				10:40 am to 02:40		10.89	14.47
				02:40 pm to 06:40	390	8.62	13.81
				06:40 pm to 10:40		10.33	12.95
				10:40 pm to 02:40	370	8.96	13.28
				02:40 am to 06:40		7.92	12.08
				<b>Average Value</b>	<b>373</b>	<b>9.39</b>	<b>13.35</b>
Near Temple	07:00 am	29.49	35.45	07:00 am to 11:00	350	10.81	12.57
				11:00 am to 03:00		9.05	13.19
				03:00 pm to 07:00	410	10.31	14.51
				07:00 pm to 11:00		8.37	13.85
				11:00 pm to 03:00	340	7.99	12.99
				03:20 am to 07:00		9.68	12.66
				<b>Average Value</b>	<b>367</b>	<b>9.37</b>	<b>13.30</b>

Ambient Air Quality Standards as per MoEF&CG GSR Notification 82&E

S.NO.	UoM	Time	PM 2.5	PM 10	SO2	NO2	CO
1	(µg/m <sup>3</sup> )	24 hours	60	100	80	80	2000
2		Annual	40	60	50	40	-

\* Time mentioned above is the initial Time of Sampling.  
Below Detection Limits for SO<sub>2</sub> is 4.0 µg/m<sup>3</sup> and NO<sub>2</sub> is 6.0 µg/m<sup>3</sup>  
All Units are Expressed in µg/m<sup>3</sup>



*Dr. Subba Reddy Mallampati*  
**Dr. Subba Reddy Mallampati**  
Group Leader - Environment



TC-5418

**ISSUED TO:**

M/s. DIAMOND CEMENTS.  
(Prop: Heidelberg Cement India Limited),  
A/R PO: Narsingarh, Dist: Damoh,  
Madhya Pradesh-470675, India.

Report Number : VLL/VLS/21/03363/004  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : AMBIENT AIR QUALITY MONITORING  
**Place of Work/Plant/Mines** : Diamond Cements- Patharia Lime Stone Mines (Prop: HCIL), Damoh, M.P.

## TEST REPORT

Location Name	Date/Time*	PM <sub>2.5</sub> 18.06.2021	PM <sub>10</sub> 17.06.2021	Time	CO 17.06.2021	SO <sub>2</sub> 17.06.2021	NO <sub>2</sub> 17.06.2021
Near Main Office	06:00 am	20.81	36.12	06:00 am to 10:00	410	10.81	12.12
				10:00 am to 02:00		9.65	13.76
				02:00 pm to 06:00	340	10.31	12.65
				06:00 pm to 10:00		9.75	15.27
				10:00 pm to 02:00	380	9.48	12.66
				02:00 am to 06:00		8.49	14.96
				<b>Average Value</b>	<b>377</b>	<b>9.75</b>	<b>13.57</b>
Near Back Filling Area	06:20 am	26.35	48.61	06:20 am to 10:20	330	10.16	13.63
				10:20 am to 02:20		9.05	12.03
				02:20 pm to 06:20	390	8.09	15.42
				06:20 pm to 10:20		8.51	14.77
				10:20 pm to 02:20	410	7.82	12.83
				02:20 am to 06:20		9.83	12.54
				<b>Average Value</b>	<b>377</b>	<b>8.91</b>	<b>13.54</b>
Near Mine Pit	06:40 am	21.36	49.27	06:40 am to 10:40	370	10.89	12.21
				10:40 am to 02:40		9.73	12.68
				02:40 pm to 06:40	390	8.41	12.35
				06:40 pm to 10:40		10.14	11.70
				10:40 pm to 02:40	400	7.88	12.02
				02:40 am to 06:40		10.21	12.80
				<b>Average Value</b>	<b>387</b>	<b>9.54</b>	<b>12.29</b>
Near Temple	07:00 am	19.70	37.36	07:00 am to 11:00	410	9.56	12.51
				11:00 am to 03:00		8.51	13.02
				03:00 pm to 07:00	370	10.97	12.99
				07:00 pm to 11:00		9.28	12.63
				11:00 pm to 03:00	330	7.88	12.92
				03:00 am to 07:00		8.37	13.63
				<b>Average Value</b>	<b>370</b>	<b>9.10</b>	<b>12.95</b>

Ambient Air Quality Standards as per MoE, T&CC GSE Notification B2&E

S.NO.	UoM	Time	PM 2.5	PM 10	SO2	NO2	CO
1	(µg/m <sup>3</sup> )	24 hours	60	100	80	80	2000
2		Annual	40	60	50	40	-

\* Time mentioned above is the initial Time of Sampling.  
Below Detection Limits for SO<sub>2</sub> is 4.0 µg/m<sup>3</sup> and NO<sub>2</sub> is 6.0 µg/m<sup>3</sup>  
All Units are Expressed in µg/m<sup>3</sup>



*Dr. SubbaReddy Mallampati*  
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 At& PO: Narsingarh, Dist: Damoh,  
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Report Number : VLL/VLS/21/03363/007  
 issued Date : 2021-07-05  
 Purchase Order No : 4470559682  
 P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : **AMBIENT NOISE MONITORING**  
**Place of Work/Plant/Mines** : **Diamond Cements- Lime Stone Mines, (Prop: HCIL), -Patharla, Damoh, M.P.**  
**Date of Monitoring** : **17-06-2021**

**TEST REPORT**

Sr. No.	Name of the Location	Leq Value in dB(A)	
		Day Time	Night Time
1.	Near Main Office	54.4	49.5
2.	Near Back Filling Area	50.9	46.2
3.	Near Mine Pit	61.2	57.8
4.	Near Temple	65.7	58.5

Ambient Noise Standards as per The Noise Pollution (Regulation And Control) Rules, 2000 S.O. 50 (E)			
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:**

- Day time is reckoned in between 6:00 AM and 10:00 PM.
- Night time is reckoned in between 10:00 PM and 6:00 AM
- 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.
- 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.



**Dr. SubbaReddy Mallampati**  
**Group Leader - Environment**



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At& PO: Narsingarh, Distt: Damoh,  
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Report Number : VLL/VLS/21/03363/012  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : **STACK EMISSION MONITORING**  
**Place of Work/Plant/Mines** : **Diamond Cements- Lime Stone Mines (Prop: HCIL), Patharia, Damoh, M.P.**

**TEST REPORT**

Stack ID/Code		S-1
Date of Monitoring	UoM	29.06.2021
<b>Stack Details</b>		
Material of Construction (Stack/Duct)		M.S.
Stack Attached to		Crusher
Name of Air Pollution Control Device		Bag House
Stack Height above the Ground level	m	30
Stack Top	-	Circular
Inside Diameter of Stack	m	1.5
Cross sectional area of Duct/Stack	Sq.m	1.77
Ambient Temp	°C	38
Stack Gas Temp	°C	45
Exit Velocity of Gas	m/sec	15.66
Volumetric Flow Rate	Nm <sup>3</sup> / sec	24.75
<b>Test Conducted</b>		
Particulate Matter(PM) by Iso-kinetic Sampling	mg/Nm <sup>3</sup>	21.2

**Standard for Stack Emission: ≤ 30.0 mg/Nm<sup>3</sup>**

**Note:**

**S-1: Crusher**



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**Madhya Pradesh-470675, India.**

Report Number : VLL/VLS/21/03363/034  
 Issued Date : 2021-07-05  
 Purchase Order No : 4470559682  
 P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : **FUGITIVE EMISSION MONITORING**  
**Place of Work/Plant/Mines** : **Diamond Cements- Patharia Lime Stone Mines (Prop: HCIL), Damoh, M.P.**

**TEST REPORT**

Sr. No	Name of the Location	Date	Time of monitoring	SPM ( $\mu\text{g}/\text{m}^3$ )
1	Near Loading Point - Belt Conveyor	24.06.2021	09:00 am to 01:00 pm	718
2	Haulage Road	24.06.2021	02:00 pm to 06:00 pm	669
3	Near Crusher	24.06.2021	09:00 am to 01:00 pm	874
4	Near Lime Stone Stock Area	24.06.2021	02:00 pm to 06:00 pm	635
5	Near Drilling Area	25.06.2021	09:00 am to 01:00 pm	605

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

**Dr. SubbaReddy Mallampati**  
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At& PO: Narsingarh, Dist: Damoh,  
Madhya Pradesh-470675, India.

Report Number : VLL/VLS/21/03363/016  
Issued Date : 2021-07-05  
Purchase Order No : 4470559682  
P.O. Date : 2021-05-24

Page 1 of 1

SAMPLE PARTICULARS : Septic Tank Water  
Place of Work/Plant/Mines : Diamond Cements- Lime Stone Mines (Prop: HCLL), Patharia, Damoh, M.P.

Sample Collection Date	: 15.06.2021	Sample Registration Date	: 19.06.2021
Analysis Starting Date	: 19.06.2021	Analysis Completion Date	: 29.06.2021
Samples Collected by Vimta Labs Limited.			

**TEST REPORT**

Sr. No.	Parameters	Results	PCB Standards
1	pH	7.5	5.5 - 9.0
2	Total Suspended Solid (TSS)	7.2	10.0
3	Total Dissolved Solid (TDS)	438.5	-
4	Biochemical Oxygen Demand (3 days at 27 °C)	6.3	10.0
5	Chemical Oxygen Demand (COD)	23.3	50.0
6	Oil & Grease (O&G)	BDL	10.0
7	Chloride(Cl)	45	1000.0

Note: All parameters are in mg/l except pH and SAR  
Oil & Grease BDL < 1.0 (mg/l)



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**Dr. SubbaReddy Mallampati**  
Group Leader-Environment

Life Sciences Campus. # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, Telangana, India  
T : +91 40 6740 4040 E : mdoffice@vimta.com URL : www.vimta.com

CIN : L24110TG1990PLC011977

**Vimta Labs Limited**

Registered Office

142, IDA Phase II, Cherlapally

Hyderabad-500 051, Telangana, India

T : +91 40 2726 4141

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TC-5416

**Vimta**

Driven by Quality. Inspired by Science.

**ISSUED TO:**

M/s. DIAMOND CEMENTS.  
 (Prop: Heidelberg Cement India Limited),  
 At& PO: Narsingarh, Distt: Damoh,  
 Madhya Pradesh-470675, India.

Report Number : VLL/VLS/21/03363/017  
 Issued Date : 2021-07-05  
 Purchase Order No : 4470559682  
 P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : Oil & Grease Trap Wastewater  
**Place of Work/Plant/Mines** : Diamond Cements- Lime Stone Mines (Prop: HCIL), Patharia, Damoh, M.P.

Sample Collection Date	: 15.06.2021	Sample Registration Date	: 19.06.2021
Analysis Starting Date	: 19.06.2021	Analysis Completion Date	: 29.06.2021
Samples Collected by Vimta Labs Limited.			

**TEST REPORT**

Sr. No.	Parameters	Results	PCB Standards
1	pH	7.3	5.5 - 9.0
2	Total Suspended Solid (TSS)	7.7	10
3	Total Dissolved Solid (TDS)	368.2	-
4	Biochemical Oxygen Demand (3 days at 27 °C)	7	10
5	Chemical Oxygen Demand (COD)	23.8	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)



*[Signature]*  
**Dr. SubbaReddy Mallampati**  
 Group Leader-Environment

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Report Number : VLL/VLS/21/03363/018  
Issued Date : 2021-07-05  
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P.O. Date : 2021-05-24

Page 1 of 1

**SAMPLE PARTICULARS** : Mine Pit Water

**Place of Work/Plant/Mines** : Diamond Cements- Lime Stone Mines (Prop: HCIL), Patharia, Damoh, M.P.

Sample Collection Date	: 15.06.2021	Sample Registration Date	: 19.06.2021
Analysis Starting Date	: 19.06.2021	Analysis Completion Date	: 29.06.2021
Samples Collected by Vimta Labs Limited.			

## TEST REPORT

Sr. No.	Parameters	Results
1	pH	7.3
2	Suspended Solid	87.3
3	Total Dissolved Solid (TDS)	366.6
4	Total Hardness as CaCO <sub>3</sub>	423.4
5	Oil & Grease (O&G)	BDL
6	Fluoride as F	0.06
7	Calcium as CaCO <sub>3</sub>	266.4
8	Magnesium as CaCO <sub>3</sub>	157
9	Sodium as Na	15.5
10	Total Alkalinity	24.6
11	Potassium	1.4
12	Chloride as Cl	15.1
13	Total Organic Carbon (TOC)	1.1

Note: All parameters are in mg/l except pH  
Oil & Grease BDL < 1.0 (mg/l)



*Dr. SubbaReddy Mallampati*

**Dr. SubbaReddy Mallampati**  
Group Leader-Environment



## Report Name : Average Report

From: 01-05-2021 - 00:00:00 To: 31-05-2021 - 15:21:00

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	28.2	39.81	1.59	9.02	4.58	2.12
Min	3.44	36.20	1.55	3.15	4.54	2.09
Max	85.92	41.46	1.64	20.07	4.67	2.15
Geom.Mean	28.2	39.81	1.59	9.02	4.58	2.12
Median	17	1.57	0.02	3.31	0.02	0.01
Mode	36.44	36.2	1.57	13.1	4.58	2.12
Std.Deviation	25.13	40.28	1.58	8.63	4.58	2.12
Prescribed Standard	100.0	80.0	80.0	60.0	80.0	80.0
First Max occurred at	05-05-2021	31-05-2021	20-05-2021	05-05-2021	22-05-2021	22-05-2021
First Min occurred at	19-05-2021	01-05-2021	01-05-2021	19-05-2021	29-05-2021	19-05-2021
Valid Data Points	31	31	31	31	31	31
Total Data Points	31	31	31	31	31	31
Data Availability %	100	100	100	100	100	100
Uncertainty	0	0	0	0	0	0
01-05-2021	36.44	36.2	1.58	13.1	4.56	2.11
02-05-2021	25.13	36.36	1.57	9.98	4.56	2.12
03-05-2021	25.66	36.57	1.57	7.83	4.57	2.12
04-05-2021	21.37	36.62	1.6	8.63	4.59	2.11
05-05-2021	85.92	36.74	1.59	20.07	4.58	2.11
06-05-2021	43.58	39.32	1.59	12.67	4.58	2.11
07-05-2021	31.44	41.06	1.57	10.48	4.59	2.13
08-05-2021	14.28	39.93	1.6	8.95	4.6	2.12
09-05-2021	15.91	39.29	1.55	6.8	4.55	2.12
10-05-2021	13.13	40.14	1.6	6.26	4.56	2.1
11-05-2021	17.1	39.37	1.58	5.03	4.57	2.12
12-05-2021	20.58	39.82	1.56	7	4.55	2.12
13-05-2021	13.27	39.7	1.59	6.51	4.61	2.14

14-05-2021	39.87	39.87	1.61	8.64	4.59	2.11
15-05-2021	14.57	39.94	1.57	8.15	4.58	2.13
16-05-2021	14.01	40.08	1.57	7.12	4.59	2.13
17-05-2021	11.42	40.28	1.57	5.62	4.58	2.12
18-05-2021	6.91	40.49	1.59	5.91	4.58	2.12
19-05-2021	3.44	40.64	1.63	3.15	4.57	2.09
20-05-2021	36.19	40.66	1.64	7.28	4.6	2.1
21-05-2021	26.55	40.57	1.6	8.53	4.61	2.13
22-05-2021	29.32	40.68	1.62	10.31	4.67	2.15
23-05-2021	40.17	40.77	1.58	10.4	4.55	2.11
24-05-2021	53.7	40.76	1.57	14.49	4.56	2.11
25-05-2021	47.95	40.78	1.58	12.05	4.57	2.12
26-05-2021	44.37	40.98	1.56	11.48	4.55	2.13
27-05-2021	37.7	41.12	1.6	11.4	4.58	2.12
28-05-2021	31.17	41.15	1.58	7.94	4.58	2.13
29-05-2021	13.04	41.26	1.58	4.21	4.54	2.1
30-05-2021	49.93	41.4	1.57	9.85	4.56	2.12
31-05-2021	39.43	41.46	1.57	9.76	4.6	2.15

## Report Name : Average Report(Continued)

Date (DD-MM-YYYY)	AAQMS_1 CO (mg/m3)Normalized
Avg	0.31
Min	0.23
Max	0.43
Geom.Mean	0.31
Median	0.04
Mode	0.3
Std.Deviation	0.3
Prescribed Standard	4.0
First Max occurred at	01-05-2021
First Min occurred at	19-05-2021
Valid Data Points	31
Total Data Points	31
Data Availability %	100
Uncertainty	0
01-05-2021	0.43
02-05-2021	0.36
03-05-2021	0.34
04-05-2021	0.33
05-05-2021	0.33
06-05-2021	0.35
07-05-2021	0.35
08-05-2021	0.31
09-05-2021	0.3
10-05-2021	0.27
11-05-2021	0.27
12-05-2021	0.27
13-05-2021	0.28
14-05-2021	0.31
15-05-2021	0.32

## Real Time Data Acquisition And Monitoring

16-05-2021	0.28
17-05-2021	0.26
18-05-2021	0.26
19-05-2021	0.23
20-05-2021	0.23
21-05-2021	0.29
22-05-2021	0.3
23-05-2021	0.29
24-05-2021	0.32
25-05-2021	0.34
26-05-2021	0.37
27-05-2021	0.37
28-05-2021	0.31
29-05-2021	0.29
30-05-2021	0.3
31-05-2021	0.26





## Real Time Data Acquisition And Monitoring



Created By: glensAdmin  
Created At: 2021-06-05 15:36:06

### Report Name : Average Report

From: 01-05-2021 - 00:00:00 To: 31-05-2021 - 23:59:15

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	4.43	2.24	0.05	18.64	1.2	17.42
Min	4.38	2.22	0.02	18.61	1.17	9.26
Max	4.47	2.26	0.10	18.72	1.23	28.35
Geom.Mean	4.43	2.24	0.05	18.64	1.2	17.42
Median	0.02	0.01	0.02	0.04	0.01	4.81
Mode	4.43	2.24	0.04	18.61	1.19	25.57
Std.Deviation	4.43	2.24	0.04	18.62	1.2	17.66
Prescribed Standard	80.0	80.0	4.0	80.0	80.0	60.0
First Max occurred at	01-05-2021	11-05-2021	01-05-2021	31-05-2021	17-05-2021	04-05-2021
First Min occurred at	26-05-2021	21-05-2021	19-05-2021	04-05-2021	26-05-2021	20-05-2021
Valid Data Points	31	31	31	31	31	31
Total Data Points	31	31	31	31	31	31
Data Availability %	100	100	100	100	100	100
Uncertainty	0	0	0	0	0	0
01-05-2021	4.47	2.25	0.1	18.67	1.22	25.57
02-05-2021	4.47	2.25	0.07	18.65	1.22	24.23
03-05-2021	4.44	2.25	0.06	18.65	1.19	15.83
04-05-2021	4.43	2.24	0.05	18.61	1.2	28.35
05-05-2021	4.43	2.24	0.04	18.61	1.2	17.66
06-05-2021	4.42	2.24	0.05	18.61	1.19	22.74
07-05-2021	4.45	2.25	0.05	18.61	1.21	20.8
08-05-2021	4.45	2.25	0.05	18.63	1.2	18.92
09-05-2021	4.44	2.25	0.04	18.65	1.2	15.88
10-05-2021	4.44	2.25	0.04	18.67	1.2	12.32
11-05-2021	4.45	2.26	0.03	18.68	1.19	11.91
12-05-2021	4.44	2.24	0.04	18.71	1.22	12.79
13-05-2021	4.45	2.25	0.04	18.7	1.2	15.23

14-05-2021	4.41	2.24	0.01	18.71	1.21	15.34
15-05-2021	4.43	2.25	0.05	18.69	1.19	19.07
16-05-2021	4.44	2.24	0.04	18.7	1.21	14.55
17-05-2021	4.45	2.24	0.03	18.67	1.2	12.55
18-05-2021	4.44	2.25	0.03	18.61	1.19	14.13
19-05-2021	4.41	2.24	0.02	18.61	1.18	9.7
20-05-2021	4.43	2.24	0.02	18.61	1.19	9.26
21-05-2021	4.41	2.22	0.04	18.61	1.19	18.31
22-05-2021	4.41	2.24	0.04	18.61	1.19	18.83
23-05-2021	4.41	2.23	0.04	18.61	1.19	16.63
24-05-2021	4.4	2.23	0.04	18.61	1.19	27.3
25-05-2021	4.41	2.24	0.04	18.61	1.18	18.51
26-05-2021	4.38	2.22	0.06	18.61	1.17	18.37
27-05-2021	4.43	2.24	0.06	18.61	1.19	21.69
28-05-2021	4.41	2.24	0.05	18.61	1.18	17.84
29-05-2021	4.43	2.22	0.03	18.62	1.22	10.04
30-05-2021	4.44	2.24	0.07	18.7	1.21	18.87
31-05-2021	4.43	2.24	0.03	18.72	1.2	16.67

**Report Name : Average Report(Continued)**

<b>Date (DD-MM-YYYY)</b>	<b>AAQMS_2 PM10 (ug/m3)Normalized</b>
Avg	73.84
Min	16.36
Max	400.42
Geom.Mean	73.84
Median	84.32
Mode	73.4
Std.Deviation	48.01
Prescribed Standard	100.0
First Max occurred at	26-05-2021
First Min occurred at	23-05-2021
Valid Data Points	30
Total Data Points	31
Data Availability %	96
Uncertainty	
01-05-2021	73.4
02-05-2021	39.82
03-05-2021	36.85
04-05-2021	32.1
05-05-2021	44.23
06-05-2021	98.57
07-05-2021	57.35
08-05-2021	51.25
09-05-2021	33.16
10-05-2021	19.56
11-05-2021	43.97
12-05-2021	32.7
13-05-2021	57.93
14-05-2021	57.53
15-05-2021	67.15

### Real Time Data Acquisition And Monitoring

16-05-2021	46.09
17-05-2021	30.56
18-05-2021	52.39
19-05-2021	33.21
20-05-2021	18.04
21-05-2021	87.12
22-05-2021	47.82
23-05-2021	16.36
24-05-2021	#
25-05-2021	67.84
26-05-2021	48.01
27-05-2021	222.63
28-05-2021	400.42
29-05-2021	309.78
30-05-2021	51.68
31-05-2021	37.67

**DIAMOND CEMENTS DAMOH**

**Energy Meter Reading**

Month : June - 21

S.No.	Location	Month	Consumption (KWH)	Remarks, if Any
<b>Clinkerisation Unit Narsingarh</b>				
1	Hybrid ESP For KILN/ RAW MILL NO.1	Jun-21	3309	
2	Hybrid ESP For KILN/ RAW MILL NO.2	Jun-21	10226	
3	RABH For KILN / RAW MILL NO. 3	Jun-21	136379	
4	ESP For COOLER NO. 1	Jun-21	22549	
5	ESP For COOLER NO. 2	Jun-21	23998	
6	ESP For COOLER NO. 3	Jun-21	13785	
7	BAG HOUSE For COAL MILL NO. 1	Jun-21	11094	
8	BAG HOUSE For COAL MILL NO. 2	Jun-21	124487	
9	BAG HOUSE For COAL MILL NO. 3	Jun-21	185070	
10	SEWAGE TREATMENT PLANT	Jun-21	6230.00	
<b>Grinding Unit Imlai</b>				
1	BAG HOUSE For CEMENT MILL NO. 1	Jun-21	7892.00	
2	BAG HOUSE For CEMENT MILL NO. 2	Jun-21	15652	
3	BAG HOUSE For CEMENT MILL NO. 3	Jun-21	23417	
4	SEWAGE TREATMENT PLANT	Jun-21	14520	

**DIAMOND CEMENTS - DAMOH**

**PERFORMANCE OF ESPs / BAG HOUSES**

Jun-21

PCM ATTACHED TO	Plant Operation		PCM Operation		PCM Stoppage Hrs.	No. OF ESP Trippings	% OF		Remarks
	Hrs.	Min	Hrs.	Min			ESP	R.Hrs	
ESP To KILN NO. 1 + RAW MILL NO.1	472	0	472	0	0.000	0	100.000		
ESP To KILN NO. 2 + RAW MILL NO. 2	676	45	676	45	0.000	0	100.000		
REVERSE AIR BAG HOUSE(RABH) To KILN NO. 3 + RAW MILL NO. 3	225	15	225	15	0.000	0	100.000		
BAG HOUSE To COAL MILL NO. 1	382	0	382	0	0.000	0	100.000		
BAG HOUSE To COAL MILL NO. 2	595	46	595	46	0.000	0	100.000		
BAG HOUSE To COAL MILL NO. 3	343	24	343	24	0.000	0	100.000		
ESP To COOLER NO. 1	472	0	471	58	0.033	1	99.993		
ESP To COOLER NO. 2	676	45	676	45	0.000	0	100.000		
ESP To COOLER NO. 3	225	15	225	15	0.000	0	100.000		
BAG HOUSE To CEMENT MILL NO. 1	678	40	678	40	0.000	0	100.000		
BAG HOUSE To CEMENT MILL NO. 2	225	15	225	15	0.000	0	100.000		
BAG HOUSE To CEMENT MILL NO. 3	79	30	79	30	0.000	0	100.000		

## Detail of Water Consumption & Waste water Treated by HeidelbergCement India Limited, Damoh

Month-Jun-2021

<b>Water Consumption (KL)</b>				
Diamond cements-Clinkerisation unit Narsingarh (KL)				
Month	Water consumption by Clinkrisation Unit	Water consumption by Waste Heat recovery Boiler (WHRB)	Water consumption for Plantation & Domestic purpose at colonies and water supply to near by village area under CSR	Ground water consumption at colony for Drinking
Jun-21	16420	2430	67560	2759

<b>Diamond cements-Patharia Lime Stone Mines (KL)</b>	
Month	Industrial Water Consumption
Jun-21	6913

<b>Diamond Cements- Grinding Unit, Imlai (KL)</b>	
Month	Industrial Water Consumption
Jun-19	3238

<b>Waste Water Treated (KL)</b>		
Month	STP (600 KLD) Clinkrisation unit, Narsingarh	STP (90 KLD) Grinding Unit, Imlai
Jun-19	3124	650
		Effluent water for WHRB
		595



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



## **CERTIFICATE OF ACCREDITATION**

### **VIMTA LABS LIMITED**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

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

for its facilities at

**LIFE SCIENCES FACILITY, PLOT NO. 5, M.N.PARK, GENOME VALLEY, SHAMIRPET, HYDERABAD,  
MEDCHAL, TELANGANA, INDIA**

in the field of

**TESTING**

**Certificate Number: TC-5418**

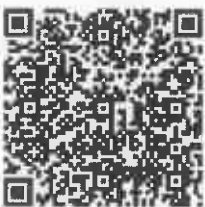
**Issue Date: 31/03/2019**

**Valid Until: 30/03/2021**

**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](http://www.nabl-india.org))**

**Signed for and on behalf of NABL**



**N. Venkateswaran  
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