

HCIL(NGH)-ENV/2023/50

To,  
The Member Secretary  
M.P. Pollution Control Board  
Paryavaran Parisar,  
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  
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**Date; 12.09.2023**

Th; E-mail & XGN Upload

**Sub.: Submission of Environment Statement Report (Form -V) for the period from Apr 2022 to Mar 2023 by M/s. Diamond Cements (Grinding Unit Imlai), (Prop. HeidelbergCement India Ltd.) Village &PO-Imlai, Distt. Damoh-470661 (M.P.)**

Dear Sir,

Please find enclosed herewith the Environment Statement Report (Form-V) of M/s. Diamond Cement (Grinding Unit Imlai), (Prop. HeidelbergCement India Ltd.) Village &PO-Imlai, Distt. Damoh-470661 (M.P.) for the FY 2022-23.

This is submitted for your kind perusal please.

Thanking you with regards,

For M/s **Diamond Cements (Prop: Heidelberg Cement India Ltd.)**



**Ashok Tiwari**

**Head Environment (Unit Narsingarh, Damoh M.P.)**

**Copy To:**

1. The Zonal Officer (Central),  
Central Pollution Control Board,  
Parivesh Bhawan, Paryavaran Parisar, E-5 , Arera Colony,  
Bhopal, Madhya Pradesh 462016
2. The Regional Officer  
M.P Pollution Control Board,  
Deen Dayal Nagar, Housing Board Colony, Sagar (MP)
3. Office Copy

**Encl:** As above

**ENVIRONMENT STATEMENT REPORT**

**(FORM-V)**

**[YEAR 2022 - 2023]**

**REPORT BY**

**HEIDELBERGCEMENT**

**M/s. Diamond Cements (Grinding Unit Imlai), (Prop.  
HeidelbergCement India Ltd.)  
Village & PO-Imlai,  
Distt. Damoh-470661 (M.P.)**

M/s. Diamond Cements (Grinding Unit Imlai)  
 (Prop. HeidelbergCement India Ltd.)  
 Village & PO-Imlai, Distt. Damoh-470661 (M.P.)  
 (For the Financial year ending 31st March 2023)

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**ANNEXURES**

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**AWARENESS PROGRAMME**

S. No.	Type	Details
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3	Annexure-9	Celebration of Lifestyle for Environment

***mycem*****HEIDELBERGCEMENT**

## INTEGRATED MANAGEMENT SYSTEM POLICY

We, at Heidelberg Cement India Limited are fully committed towards customer satisfaction, environmental protection, providing healthy & safe work environment to all concerned and our endeavour is to:

- Produce cement much better than the applicable standards to satisfy the customer needs.
- Comply with all applicable legal, social and other requirements.
- Involve and train human resource to upgrade their skills in all areas including safety.
- Regularly set and review objectives and targets for continual improvement in quality, productivity, work environment and health & safety performance.
- Prevention of pollution.
- Prevention in occupational injuries and ill health.

This policy has been communicated to all the employees and is also available to the public and interested parties on demand.

Date: 15<sup>th</sup> April 2013

-sd-  
CEO & Managing Director

**INTRODUCTION**

HeidelbergCement India Limited is a subsidiary of HeidelbergCement Group, Germany. The Company has its operations in Central India at Damoh (Madhya Pradesh), Jhansi (Uttar Pradesh) and in Southern India at Ammasandra (Karnataka). The Company entered India in 2006 with less than 3-million-ton capacity. Recently the company increased its Capacity from 5.4 million tons to 6.26 million tons in 2020. M/s Diamond Cements (Prop: HeidelbergCement India Ltd) is presently producing 3.1 million metric tonnes per annum (MTPA) of clinker at its unit located at Narsingarh, in Damoh district of Madhya Pradesh. The clinker is produced in three Clinker Lines (Line 1, 2 and 3). HeidelbergCement India limited is committed to excel Environmental Sustainability by putting all engineering the best efforts to prevent environmental degradation, minimize the waste generation, resource conservation and reutilization of waste.

Man is a part of nature, and not separate or independent; at the same time, man is unique in the influence he has over nature. Man derives all his food, clothing, shelter, and other amenities from nature. In that process, if he does not take care to protect and cherish nature, but decrease or destroys, he will find that his own life and that of his children is in jeopardy. In the words of our late Prime Minister, Mrs. Indira Gandhi “It is said that, in country after country, progress should become synonymous with an assault on nature. The higher standard of living must be achieved without alienating our people from their heritage and without despoiling of its beauty, freshness, and purity essential to our lives.” The environment is now catch for all, the industry, the government, the people. Hence, it is joint responsibility to protect, preserve the environment and avoid the perishing the natural treasures. At this critical junction of time and efforts, the Indian industry has fulfilled its commitment in maintaining the environmental integrity. The next few pages of this Environment Statement Report (ESR) of HeidelbergCement India Limited is based on factual data and verified record, will present a picture of more optimism for environmental care than ever before.

**ENVIRONMENTAL STATEMENT REPORT**

[FORM-V]  
(See rule 14)

**PART-A**

(i)	Name and address of the owner/ occupier: of the industry, operation, or process	Mr. Umesh Kumar Verma (Unit Head) M/s. Diamond Cements (Grinding Unit Imlai), (Prop. HeidelbergCement India Ltd.) Village & PO-Imlai, Distt. Damoh-470661 (M.P.)
(ii)	Industry category	Cement- LARGE SCALE
(iii)	Production capacity	2.5 million Ton/Annum D.G. Set 02 x 1000 KVA
(iv)	Year of establishment	Line – I 1983 Line – II 1993 Line – III 2013
(vi)	Date of the last Environmental statement submitted	28th Sep 2022

**PART-B**

**Water and Raw Material Consumption**

**(I) Water consumption M<sup>3</sup>/D**

Process & Cooling (M <sup>3</sup> /D)	74.3	Including Line1,2 and 3
Domestic (M <sup>3</sup> /D)	68.8	Domestic water, water used for plantation etc.

Name of products	Process water consumption per unit of products output	
	During the previous financial year	During the current financial year
	(1)	(2)
Cement	0.0197 KL/MT	0.0158
D.G. set (2 x 1000 KVA)	N.A	N.A

**(ii) Raw material consumption**

Name of raw materials	Name of products	Consumption of raw material per unit of output	
		During the previous financial year (%)	During the current financial year (%)
Clinker	Portland Pozzolana Cement	62.10	62.12
Gypsum		2.98	2.94
Pozzolana/Fly Ash		34.95	34.94
Diesel (KL/KWH)	D.G. set (2 x 1000 KVA)	0.0015 KL/KWH	0.0410

**PART-C**

Pollution discharged to environment/unit of output  
(Parameters as specified in the consent issued)

(i) Pollutants	Quantity of pollution discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Air	Ambient Air Quality Monitoring Report attached as Annexure-1 Stack Emission Monitoring Report attached as Annexure-2		
(b) Water	STP Water Quality Monitoring Report attached as Annexure-3		

**PART-D  
Hazardous Wastes**

[as specified under Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008]

Hazardous Wastes		Total Quantity (MT) disposed	
		During the Previous Financial year (MT)	During the Current Financial year (MT)
(a) From Process	(a) Spent/ Used Oil (Category 5.1)	0.00	4.530
	(b) Residue containing waste oil (Category 5.2)	4.140	6.061
(b) From Pollution control Facilities	N.A.	N.A	N.A

\* Hazardous waste is not generated from Grinding process. However, this waste is being generated from industrial related activity i.e. hydraulic movement of machines, oiling/ greasing etc., which is being sold to registered recycler.

**PART-E  
Solid Wastes**

Solid Wastes	Total Quantity (Solid waste) disposed	
	During the previous financial year (%)	During the current financial year (%)
(a) From process	N.A.	N.A.
(b) From pollution control facility	N.A.	N.A.
(c) Quantity recycled or re-utilized	N.A.	N.A.
Total Quantity (E- waste) disposed		
E- waste	During the previous financial year (MT)	During the current financial year (MT)
(a) *From Grinding unit, Clinker Plant & Patharia Mines	5.0	2.260

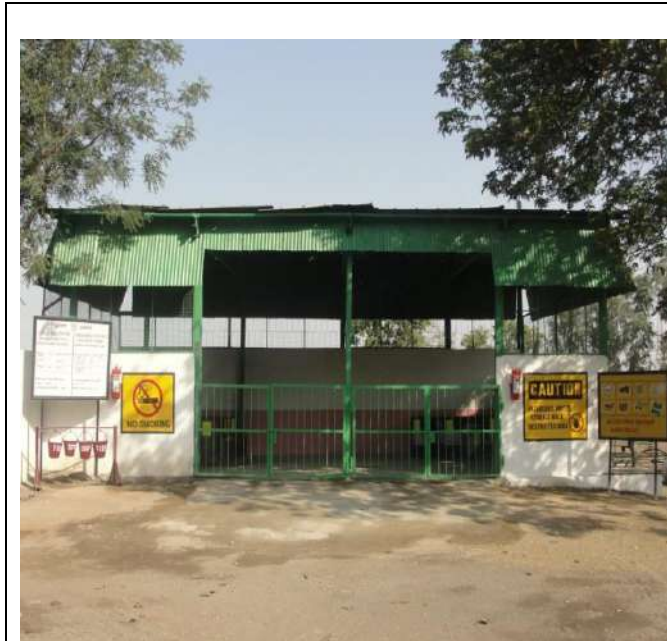
\* E-waste generated (including Clinker Plant, Grinding unit & Patharia Mines)



## PART-F

Please specify the characteristics (in terms of composition of quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1. Hazardous waste details given in Part –D. Hazardous waste is being sold to MPPCB authorized registered recycler.
2. We have separate storage yard for Hazardous waste as well as other type of waste.



**Hazardous waste Storage Yard for Category 5.1 & 5.2**



**Separate Storage yard for different type of waste such as filter bag, Glass, Used Batteries, E-waste, Turning Metals etc.**



**Training cum Mock drill on Hazardous Waste handling**



**Used Oil and Grease spill trapping, having all necessary PPEs**

## PART-G

Impact of pollution abatement measures taken on conservation of natural resources and on the cost of production.

Pollution control measure have already been taken at all the point of source and fugitive emission. This resulted good saving in total cement produced.

## PART-H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

Continuous efforts are always being made to maintain the environment clean and dust free and we have done upgradation of the existing pollution control system and also adequate quantity of Pollution Control Equipment i.e. Bag Houses, Dust Collectors, Dust Suppression System, Water Sprinkler, STP, Green Belt Development. Exist in the Grinding Unit Imlai. List of Pollution Control Devices given in **Annexure-5**

### EXPENDITURE ON ENVIRONMENT MANAGEMENT INCURRED IN 2022-23 AND PROPOSED FOR 2023-24

S. N.	DETAILS	COST RS. LAKHS (APPROX) IN 2022-23	COST RS. LAKHS (APPROX) PROPOSED FOR 2023-24
1	Stack and Ambient Air Quality Monitoring (Including Clinkerisation Unit Narsingarh, Lime Stone Mines Narsingarh & Lime Stone Mines Patharia)	33.74	33.8
2	Operation and maintenance of Sewage treatment plant	6.2	7.5
3	Continuous Ambient Air Quality Monitoring Station (CAAQMS) & Continuous Emission Monitoring System (CEMS)	9.0	11
4	Green belt Development and maintenance	16.9	18
5	House Keeping Expenses	25.5	27
6	Maintenance of Air Pollution Control Devices	8.4	9.5
7	Road Sweeping (manual) and through Auto sweeper	24.7	25
8	Maintenance of Rain water harvesting & construction of new RWHS	0.2	0.5
9	Municipal Waste Management System	1.8	2.0
10	Cost of Electricity consumed by Pollution control devices (Approx.)	34.6	35
11	Operation and maintenance of Sewage treatment plant	6.2	7.5



## Facilities available in Environment Laboratory at Diamond Cements (Prop. HeidelbergCement India Ltd.)

(Env. Lab is Common For Clinkerization unit, Grinding unit & Patharia Lime Stone Mines)

Sl. No.	Instrument Name	Quantity
1	Work table & Chair (set)	1
2	Respirable Dust Sampler (R.D.S.)	4
3	Fine Dust Sampler	4
4	Stack Monitoring Kit	1
5	NOx assembly	1
6	Digital Barometer	1
7	Noise Meter	1
8	Personal Sampler	2
9	Spectrophotometer	1
10	Weighing Balance	1
11	Kit (EC & Temp. )	1
12	pH Meter	1
13	Oven	1
14	Water Bath	1
15	Desiccator	1
16	Hot Plat	1
17	Refrigerator	1
18	Computers	1
19	Online Monitoring System	
A	CAAQMS	3
B	CEMS-Gaseous	3
C	CEMS-PM	9
20	Chemicals, Glassware and Consumables	-



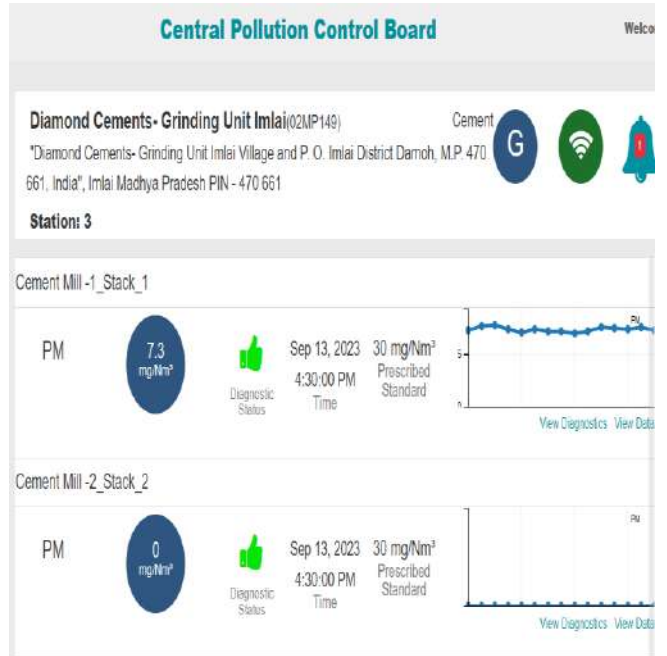
**Environmental Laboratory at Diamond Cements (Prop. HeidelbergCement India Ltd.)**



**Continuous Ambient Air Quality Monitoring stations at HCIL, Imlai (02 Nos Locations)**



**Photograph of CEMS Installed at Stack**



**CEMS data transferring to CPCB**

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

Month	Near Admin Bld.					Near Water Storage Tank (Behind D.G. Set)					Near Railway Siding					Near Worker Colony				
	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\mu\text{g}/\text{m}^3$ )
Apr-22	39	52	8	13	380	43	61	9	12	377	46	58	8	14	400	39	54	8	12	363
May-22	39	56	7	13	347	42	63	9	12	370	44	62	8	15	387	42	56	8	12	357
Jun-22	37	52	7	13	367	39	60	9	12	357	42	59	8	14	373	39	54	9	12	397
Jul-22	15	27	7	13	373	20	33	8	12	383	22	34	8	14	380	20	29	8	12	390
Aug-22	15	36	8	12	373	18	32	9	12	410	20	36	8	14	417	16	27	8	12	387
Sep-22	16	38	7	12	407	19	36	8	13	457	22	40	8	14	470	20	34	8	13	410
Oct-22	19	34	8	14	420	24	38	8	15	440	23	42	8	16	487	21	37	8	15	430
Nov-22	30	46	9	15	430	34	51	9	15	450	35	53	9	16	473	31	47	9	15	463
Dec-22	30	46	9	16	473	34	51	9	16	510	35	53	9	17	497	31	47	9	16	490
Jan-23	35	54	8	16	500	42	57	9	16	520	40	56	9	17	507	38	60	8	15	487
Feb-23	37	57	9	16	487	41	60	9	16	513	43	62	9	16	517	38	58	8	16	507
Mar-23	38	56	8	15	473	43	61	9	15	483	44	64	9	16	497	40	59	9	16	487
<b>Min</b>	<b>15</b>	<b>27</b>	<b>7</b>	<b>12</b>	<b>347</b>	<b>18</b>	<b>32</b>	<b>8</b>	<b>12</b>	<b>357</b>	<b>20</b>	<b>34</b>	<b>8</b>	<b>14</b>	<b>373</b>	<b>16</b>	<b>27</b>	<b>8</b>	<b>12</b>	<b>357</b>
<b>Max</b>	<b>39</b>	<b>57</b>	<b>9</b>	<b>16</b>	<b>500</b>	<b>43</b>	<b>63</b>	<b>9</b>	<b>16</b>	<b>520</b>	<b>46</b>	<b>64</b>	<b>9</b>	<b>17</b>	<b>517</b>	<b>42</b>	<b>60</b>	<b>9</b>	<b>16</b>	<b>507</b>
<b>Avg</b>	<b>29</b>	<b>46</b>	<b>8</b>	<b>14</b>	<b>419</b>	<b>33</b>	<b>50</b>	<b>9</b>	<b>14</b>	<b>439</b>	<b>35</b>	<b>52</b>	<b>8</b>	<b>15</b>	<b>450</b>	<b>31</b>	<b>47</b>	<b>8</b>	<b>14</b>	<b>431</b>

## Stack Monitoring Report

Month	Cement Mill-1	Cement Mill-2	Cement Mill-3
	PM (mg/Nm <sup>3</sup> )	PM (mg/Nm <sup>3</sup> )	PM (mg/Nm <sup>3</sup> )
Apr-22	12.8	11.6	16.4
May-22	13.6	15.2	14.6
Jun-22	11.8	16.7	12.5
Jul-22	12.6	15.4	13.8
Aug-22	11.4	15.1	17.4
Sep-22	14	13.2	-
Oct-22	12.5	14.8	13.5
Nov-22	13.5	-	11.6
Dec-22	14.5	13.2	15.4
Jan-23	12.4	13.7	-
Feb-23	11.7	13.1	14.2
Mar-23	13.2	14.3	12.6
Min	11	12	12
Max	15	17	17
Average	13	14	14

## STP Treated Water Quality Monitoring Report

Sl. No.	Parameters	Standard Limit	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
1	pH	5.5-9.0	7.4	7.41	7.44	7.30	7.20	7.35	7.2	7.3	7.4	7.3	7.4	7.2
2	Total Suspended Solid	10	7.9	7.4	7.7	8.3	7.5	7.1	7.5	7.2	7.5	7.6	7.1	8.4
3	Total Dissolved Solid	-	255	270	261	231	246	215	310	391	411	412	440	481
4	Biochemical Oxygen Demand (3 days at 27 °C)	10	7.1	7.3	7.1	7.3	7.5	7.8	7.7	7.2	7.3	7.25	9.5	6.3
5	Chemical Oxygen Demand (COD)	50	23.4	24.1	23.5	24.9	22.3	25.2	27.6	25.5	21.1	22.1	20.4	23.8
6	Oil & Grease (O&G)	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<1.0	<1.0	<1.0
7	Sodium Adsorption Ratio (SAR)	-	0.85	0.81	0.79	0.85	0.78	0.76	0.72	0.68	0.71	0.73	0.64	0.71
8	Fecal Coliform (FC) MPN/100ml	1000	98	95	88	86	79	71	70	73	78	77	78	82

- All values are in mg/l except pH and FC

## Annexure-4

### Ambient Noise Level Monitoring

Location→	Near ADM Building		Near Worker Colony		Near Railway Siding		Near Water Storage Tank (Behind D.G. Set)	
	Day Leq db(A)	Night Leq db(A)	Day Leq db(A)	Night Leq db(A)	Day Leq db(A)	Night Leq db(A)	Day Leq db(A)	Night Leq db(A)
Apr-22	55.2	47.0	49.7	43.6	65.3	57.6	63.0	59.0
May-22	53.7	46.4	54.5	45.2	64.8	58.1	62.7	58.6
Jun-22	54.2	45.3	53.7	44.2	64.1	55.3	61.5	58.2
Jul-22	56.9	48.2	53.7	44.0	65.8	57.0	63.6	59.5
Aug-22	55.3	49.1	54.5	43.3	66.1	55.5	62.8	52.7
Sep-22	57.1	47.6	56.8	44.0	68.1	54.1	63.2	55.6
Oct-22	58.2	46.5	52.7	44.3	70.1	60.2	63.2	57.5
Nov-22	55.4	47.3	51.9	43.5	68.3	59.4	61.6	56.7
Dec-22	52.6	48.1	57.6	49.3	69.8	62.6	65.3	61.9
Jan-23	51.8	47.3	55.2	45.0	68.5	60.1	66.6	62.5
Feb-23	52.4	45.6	54.7	43.4	66.7	59.6	68.2	63.1
Mar-23	54.1	44.3	53.2	45.0	65.4	60.4	67.8	62.5
Avg	54.74	46.89	54.02	44.57	66.92	58.33	64.13	58.98

## Annexure-5

### Details of Pollution Control Measures

Details of Pollution Control Measures installed at various locations  
Diamond Cements, Grinding Unit – Imlai, Damoh (M.P.)

S.N.	Location of PCM	Pollution Control Measures
1	Cement Mill -1	Bag House
2	Cement Mill -2	Bag House
3	Belt goes to yard, near Gypsum yard, feeding to hopper (Transfer Tower BC-32 TO BC-6/BC-33)	Bag Filter BFA
4	Belt coming from yard to hopper conveying Fly ash/ Gypsum (BC-02A TO BC-02B)	Bag Filter BF B
5	Belt from yard to transfer Tower, conveying clinker (BC-7 TO BC-8)	Bag Filter BFC
6	At Transfer Tower, clinker transfer point (BC-8- BC-9)	Bag Filter BFD
7	CM -2 Hopper top (BC-9 TO BC-11)	Bag Filter BFE
8	Top of the wagon loading hopper	Bag Filter BFH



9	Packing Plant No. 3	Bag Filter BFG
10	Rope way unloading hopper	Bag Filter BFF (S)
11	Packing Plant No. 2	Bag Filter
12	Packing Plant No. 4	Bag Filter
13	Top of cement Silo 1	Bag Filter
14	Top of cement Silo 2	Bag Filter
15	Top of cement Silo 3	Bag Filter
16	Top of cement Silo 4	Bag Filter
17	Air Lift	Bag Filter
18	BC-33 discharge to clinker stock pile	Bag Filter
19	BC-6 discharge to mills feed dump hoppers	Bag Filter
20	Cement Mill No. 1 feed hopper top	Bag Filter
21	Coal Dump Hopper at Imlai	Dust Suppression System
22	Clinker belt Bc-32, BC- 6 and BC-8	Dust Suppression System
23	Water Spray system in the Gypsum & Coal unloading yard	Dust Suppression System
24	Sewage Treatment Plant for Domestic Sewage	STP (90 KLD)
25	Green Belt Development in the premises	Green Belt Development
<b>Dry Fly ash management system embodied with following PCM at Imlai</b>		
1	Truck Tippler (Above Dump hopper)	Bag Filter
2	Truck Tippler (Above Dump hopper)	Bag Filter
3	Silo Extraction (Bottom)	Bag Filter
4	Silo Top	Bag Filter
5	Day Bin Top	Bag Filter
6	Control/ Calibration Bin	Bag Filter
7	Control/ Calibration Bin	Bag Filter

S. No.	Location of air pollution control equipment (main equipment/ transfer point)	Type of air pollution control equipment (Bag House/ Dust Collector)
1	BF080 Gypsum intake and crusher	Dust Collector
2	BF300 Gypsum intake and crusher, apron feeder	Dust Collector
3	BF320 Gypsum intake and crusher	Dust Collector
4	BF350 Gypsum intake and crusher	Dust Collector
5	212.BF400 Gypsum intake and crusher	Dust Collector
6	BF450 Gypsum intake and crusher	Dust Collector

7	BF070 Gypsum and coal storage	Dust Collector
8	BF170 Gypsum and coal storage	Dust Collector
9	BF035 Dry flyash transport to Cement mill	Dust Collector
10	BF050 Dry flyash transport to Cement mill	Dust Collector
11	BF210 Dry flyash transport to Cement mill	Dust Collector
12	.BF075 Clinker transport to storage	Dust Collector
13	.BF085 Clinker transport to storage	Dust Collector
14	471.BF090 Clinker transport to storage	Dust Collector
15	BF120 Clinker transport to storage	Dust Collector
16	BF150 Clinker transport to storage	Dust Collector
17	BF165 Clinker transport to storage	Dust Collector
18	BF175 Clinker transport to storage	Dust Collector
19	481.BF185 Clinker transport to storage	Dust Collector
20	BF290 Clinker transport to storage	Dust Collector
21	BF020 Cement mill feed	Dust Collector
22	511.BF030 Cement mill feed	Dust Collector
23	BF560 Cement mill feed	Dust Collector
24	BF215 Cement mill	Dust Collector
25	BF260 Cement mill	Dust Collector
26	BF420 Cement mill, o - sepa venting	Dust Collector
28	BF565 Cement mill	Dust Collector
29	BF570 Cement mill	Dust Collector
30	541.BF150 Cement transport to silo from existing cement mill	Dust Collector

31	BF1 (Top of cement silo)	Dust Collector
32	BF2 (Venting of collecting bin of cement silo)	Dust Collector
33	BF1 (For packer 1)	Dust Collector
34	BF2 (For packer 1)	Dust Collector
35	BF3 (For air slide-14)	Dust Collector
36	BF4 (For air slide-13)	Dust Collector
37	BF5 (For air slide-22 & boot of bucket elevator -3)	Dust Collector
38	BF6 (For air slide-11, 15 & boot of bucket elevator -4)	Dust Collector
39	BF1 (For packer-2)	Dust Collector
40	BF2 (For packer-2)	Dust Collector
41	BF1 (For packer-4)	Dust Collector
42	BF2 (For packer-4)	Dust Collector

## Annexure-6

### Year wise plantation Details Grinding Unit – Imlai

Year	Plantation (Nos.)
1983	50000
1984	10410
1985	17843
1986	31047
1987	33522
1988	19356
1989	16764
1990	26373
1991	24582
1992	27381
1993	19460
1994	11374
1995	11918
1996	14047

1997	16770
1998	10000
1999	13714
2000	10091
2001	7246
2002	4500
2003	6097
2004	6700
2005	4000
2006	4500
2007	4690
2008	3293
2009	3500
2010	3500
2011	6369
2012	2500
2013	6850
2014	5612
2015	5493
2016	5443
2017	3000
2018	1795
2019	1600
2020	940
2021	970
2022	1864
<b>TOTAL</b>	<b>455114</b>
Total area of Grinding Unit: 75 Ha	
Total area of Green Belt Development: 29.32	
% of green belt development: 39.09%	
<b>Types of Species planted:</b> Seesham, Teak, Parasonia, Subabool, Gulmohar, Neem, Bamboo, Aam, Guava, Jamun, Jack fruit, Citrus spp., Ashok Pendula, Bottle Palm, Thuja, Pipal, Bargad, Eucalyptus etc.	

## Water Consumption Report for FY 2022-23

Month	Industrial Water Consumption (KL)	Domestic Water Consumption (KL)	Total (KL)
Apr-21	3332	2010	5342
May-21	3145	2522	5667
Jun-21	2597	2028	4625
Jul-21	2444	2052	4496
Aug-21	1817	2221	4038
Sep-21	2230	2142	4372
Oct-21	1996	2313	4309
Nov-21	1375	1998	3373
Dec-21	1820	2040	3860
Jan-22	2171	1963	4134
Feb-22	1925	1828	3753
Mar-22	2273	1988	4261

### Celebration of World Water Day

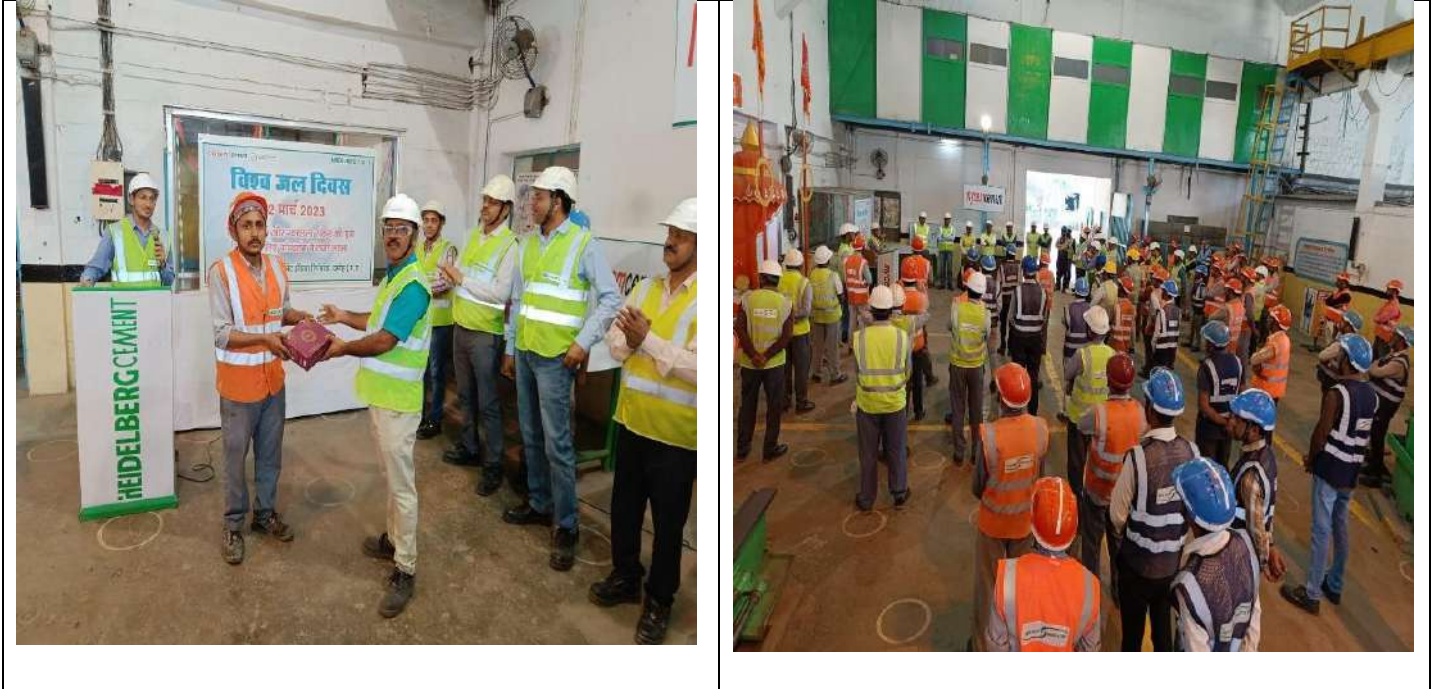
M/s HeidelbergCement India Ltd celebrated World Water Day at Damoh location on 22 March 2023. The Programme was inaugurated by Mr. Sunil Kumar Head Works and other senior management at all three locations i.e. Clinkerization Unit Narsingarh, Patharia Lime stone Mines and Imlai Grinding Unit. During the celebration All the employees and workers participated with full enthusiasm.

**1. M/s. Diamond Cements (Prop: Heidelberg Cement India Ltd.), Unit, Narsingarh (including WHRPP).**

World Water Day is held annually on 22 March as a means of focusing attention on the importance of freshwater and define approach for the sustainable management of freshwater resources. The Program was organised by Narsingarh Plant Environment Cell with the support of Technical team in Plant premise. The program started with awareness session on the importance of water conservation followed by Quiz Competition and award to the workmen for their contribution on water management. Global water withdrawal demand is projected to increase by 55 per cent by 2050 (as per OECD report) it is the right time to spread awareness on this issue. Mr. Akhilesh Tamrakar communicated water conservation tips to all all employee and workers and how we can reduce our own water requirement. Mr. Sudhir Nema maken very interesting to session through sharing water crises stories.







## 2. M/s. Diamond Cements (Prop: Heidelberg Cement India Ltd.), Grinding Unit, Imlai.

World Water Day celebrated at HeidelbergCement, Imlai Grinding Unit with full of enthusiasm. The main purpose of celebration is spread awareness amongst our employee and workers. If we talk about globally core focus of World Water Day is to support the achievement of Sustainable Development Goal 6: water and sanitation for all by 2030. World Water Day is held annually on 22 March as a means of focusing attention on the importance of freshwater and advocating for the sustainable management of freshwater resources. The theme for World Water Day 2023 is 'Accelerating Change.' World Water Day aims to address the sustainable management of water. Mr. Umesh Verma Communicated message regarding three top measures of water conservation as well as how we can improve our day-to-day habits such as vehicle washing through bucket, Using of flow controller etc. Maximum employee with workers delivers their experience related to water crises and make programme more interesting. All employees and worker taken pledge to conserve water for future. Programme was concluded through appreciation to winners.



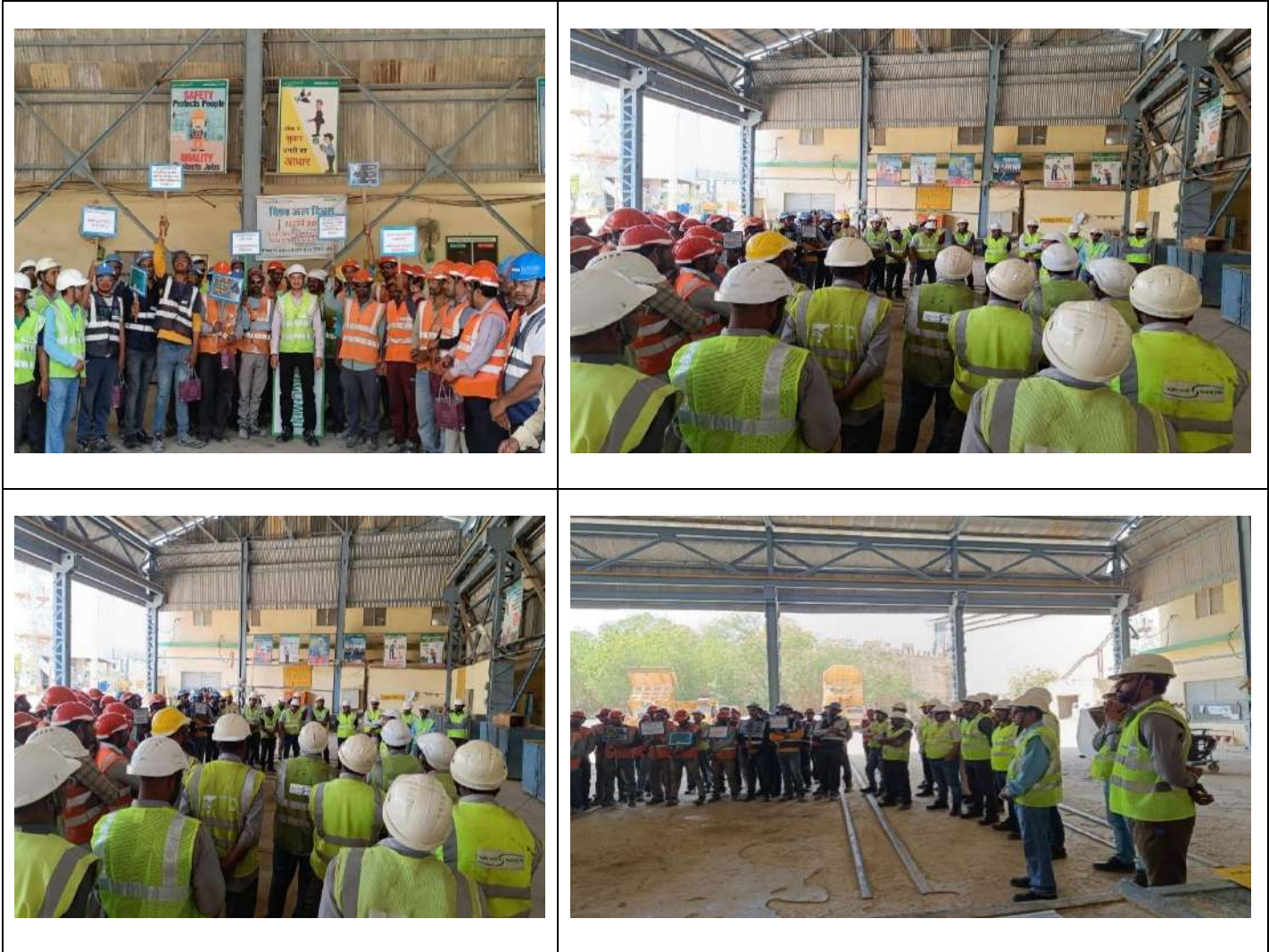




### 3. M/s. Diamond Cements (Prop: Heidelberg Cement India Ltd.), Limestone Mines, Patharia.

"World Water Day 2023 Celebration HeidelbergCement, Patharia Limestone Mines" with full of enthusiasm. The resolution to observe World Water Day was first adopted by the UN General Assembly on December 22, 1992, after which March 22 was declared as World Water Day and is celebrated around the world since then. Mr. Dayashankar Vyas communicated to all participants regarding importance of water Mr. Vyas said water is life it plays an important role to keep a normal temperature. Lubricate and cushion joints. Protect your spinal cord and other sensitive tissues. Get rid of wastes through urination, perspiration, and bowel movements. Water travels throughout your body carrying nutrients, oxygen, and wastes to and from your cells and organs. Water keeps your

body cool as part of your body's temperature regulating system. Water cushions your joints, and protects your tissues and organs from shock and damage. Mr. Ashok Sahu delivered a message regarding why need to celebrate water day. Mr. Abhishek Mishra communicated regarding how we can become more water positive in future and revert back to mother earth. Programme was concluded through appreciation to winners. Thanking You!





### Awareness drive on Lifestyle for Environment

World Environment Day 2023; As we know that Mission LIFE has been launched by our Hon'ble PM Shri Narendra Modi ji in the 75<sup>th</sup> year of India's Independence under Azadi ka Amrit Mahotsav to promote mass movement towards an environmentally conscious lifestyle. To promote the themes of Mission LIFE, we as Diamond Cement (Prop; HeidelbergCement India Limited) Unit Narsingarh, Damoh organized various awareness programmes continuously from 22 May to 05 June 2023. A small eye view is here as under-

1. Introductory awareness session under leadership of **Mr. Sunil Kumar (Head- Works)** organized on 23.05.2023 and 01.06.2023 to cover all our employee from Patharia, Imlai and Narsingarh Unit.
2. Banner/flex fixing at all prime locations of plant and colony area.
3. Poster competition and awareness session for kids on 25.05.2023 in association with Regional Office, Madhya Pradesh Pollution Control Board, Sagour M.P.
4. Best Env Photographs collection from mines and plant area.
5. World Environment Day Poster competition for employee and family members.
6. Best From Waste practices presentation by employees and family members.
7. Evolution and appreciation to participants.
8. Arrangement of an advertising vehicle with loudspeaker to spread awareness of environment friendly habits-
  - (i) Inauguration of Gyan Vahan through District Magistrate, Damoh M.P; To circulate message about Lifestyle for Environment at Damoh City.
  - (ii) Inauguration of Gyan Vahan through Unit Head HCIL Narsingarh Damoh M.P; To circulate message about Lifestyle for Environment at Plant, Colony, Patharia mines and adjoining Villages etc.
  - (iii) Environment Awareness session at nearby villages.
  - (iv) Educate to local peoples through audio visual method at maximum level in local market area.
  - (v) Staff and worker colony member participation in world Environment Day.
  - (vi) Community Participation.

### **Lifestyle for Environment Introductory awareness session.**







**Banner/flex fixing at all prime locations of plant and colony area**





## Poster competition and awareness session for kids.





Poster competition and awareness session for Employee and workers



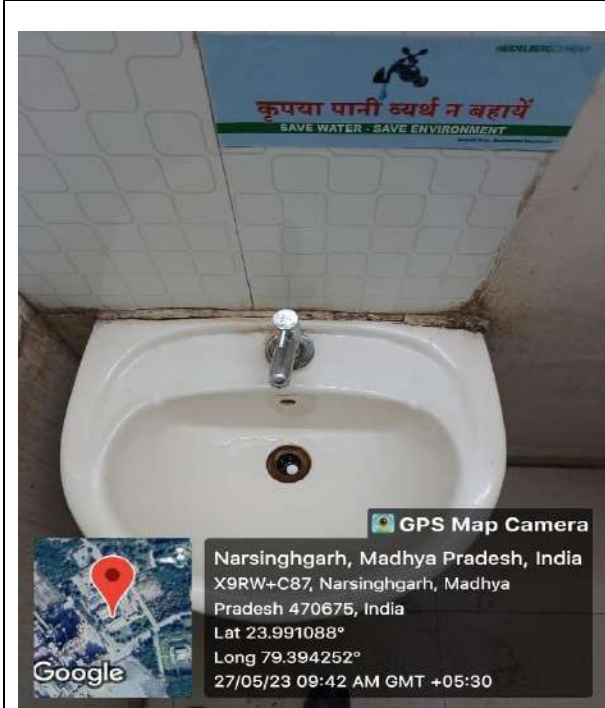
Best Practices from Waste Material



## Evaluation and Appreciation to Participants.







Water Saving Habits



Save electricity, habits

**पर्यावरण के प्रति जागरूक जीवन शैली के लिए जन अभियान**

**Save Water पानी की बचत**

**पानी बचाने के लिए उपयुक्त सुझाव**

- बाजरा जैसी कम पानी वाली फसलों की खेती को अपनाएं।
- फसल विविधीकरण का अभ्यास करें।
- कुशल जल बचत तकनीकों का उपयोग करें।
- घर/स्कूल/कार्यालयों में वर्षा जल संचयन के बुनियादी ढांचे का निर्माण करें।
- जहां भी संभव हो ड्रिप सिंचाई प्रणाली का उपयोग करें।
- धुली हुई सभिनियों के पानी का पुनः उपयोग पौधों को पानी देने और अन्य उद्देश्य के लिये करें।
- भारी बर्तनों को धोने से पहले मिगो दें।
- पौधों/फर्सा/वाहनों में पानी देने के लिये नली के पाइपों की वजह वास्तियों का उपयोग करें।
- फलैरा, नल, और पानी के पाइप में लीकेज को ठीक करें।
- एसी/आर ओ से निकलने वाले पानी को बर्तन साफ करने पौधों में पानी देने आदि के लिये दोबारा इस्तेमाल करें।
- जल शोधन प्रणाली को प्राथमिकता दें जो कम अपशिष्ट जल उत्पन्न करें।

**सौजन्य से- हाईडलबर्ग सीमेंट इंडिया लिमिटेड, नरसिंहगढ़ दमोह (म.प्र.)**

Water saving technique; 1000 Stickers distribution at Damoh City, bus stand, railway station and villages to promote environmentally conscious lifestyle.

**पर्यावरण के प्रति जागरूक जीवन शैली के लिए जन अभियान**

**मिशन लाइफ की थीम**

**ऊर्जा बचाएं \* पानी बचाएं \* सिंगल यूज प्लास्टिक को कहे "ना" \* सतत खाद्य प्रणाली \* कूड़ा कम करो \* हेल्दी लाईफ स्टार्टल अपनाएं \* ई-वेस्ट को कम करें**

- ऊर्जा बचाने हेतु सुझाव -**
  - अपल ई वी बल्ब/ट्यूबलाइट का प्रयोग करें।
  - सर्वांगिक वाहन/ई-वाहन/साईकिल का उपयोग करें।
  - छतों पर सोलर वाटर या सोलर कुकन हीटर लगाएं।
  - जल बर्ती/रिबे क्रासिभ पर वाहन के इंजन बंद करें।
- अपशिष्ट को कम करने के सुझाव -**
  - घरे में सूखे और गीले कचरे को अलग-अलग करने की आदत डालें।
  - बचती हुई और बिना पकी सब्जियां मशरूमों को हिलाएं।
  - पुराने फर्नीचर की परम्पत पुनः उपयोग और पुनः चक्रण करें।
  - पुनर्नवीनीकरण कागज से बने कागज उत्पाद खरीदें।
  - पुराने कपड़े और किताने दान करें।
- जल संरक्षण हेतु उपाय -**
  - जल, बातर जैसी कम पानी वाली कसलों की खेती को अपनाएं।
  - फसल विविधीकरण का अभ्यास करें।
  - ड्रिप सिंचाई प्रणाली का उपयोग करें एवं पौधों/फर्सा/वाहनों में पानी देने के लिये वाट्टी एवं मन का उपयोग करें।
- सिंगल यूज प्लास्टिक का उपयोग बंद करने हेतु उपाय -**
  - जल भी संभव हो अपनी खुद की पानी की बोतल ले जायें तथा कार्यक्रमां के दौरान गैर प्लास्टिक पर्यावरण के अनुकूल कटलरी का उपयोग करें।
  - फूड, ड्रग्स आदि के पैकेजिंग वेग को केवल आंशिक रूप से काटें ताकि प्लास्टिक के टुकड़ों को बायोडिग्रेडेबल कचरे में मिलाने से रोका जा सके।
  - शॉपिंग के लिये कपड़े के बैग का इस्तेमाल करें तथा बंधारण कलसे को लप में कांठ के कन्टेनर/डिसेजिन प्लास्टिक की वस्तुओं का पुनः उपयोग करें।
  - बांस की कमी और मीम के ट्यूबलाइट का पुनर्नवीकरण।
- सस्टेनेबल फूड सिस्टम अपनाने के लिये उपाय -**
  - ग्राह को मोबर से पेरिफेरिक खाद्य तैयार कर खेतों में डालें।
  - घर में खाने के कचरे को कम्पोस्ट करें।
  - भोजन की बर्बादी को बचाने के लिये वैगनिक भोजन के लिये छोटी प्लेटों का उपयोग करें।
  - अंगनवाड़ी, मद्यान्ह भोजन और पीपी योजना के माध्यम से आहार में बाजरे को शामिल करें।
- हेल्दी लाइफस्टाइल अपनाने के उपाय -**
  - सामुदायिक भोजन, और कपड़ा बेकों और एचु आभयों में खरीदना करें।
  - गीम, तुलसी, गिलोय, करी परत, अरुणका आदि जैहें औषधीय पौधे घर के परिवार में लगायें।
  - सामुदायिक स्तर पर जैव विविधता संरक्षण शुरू करें।
  - प्रदूषण के प्रभाव को कम करने के लिये पैठ लगाएं।
- ई-वेस्ट कम करने के उपाय -**
  - सनी हारो/शिक्षण संस्थाएं/शासकीय एवं गैर शासकीय संस्थाओं/बिजिनेस एवं स्वास्थ्य संस्थाओं से निकलने वाले ई-वेस्ट को ई-वेस्ट कलेक्शन सेंटर में डी उपस्थापना करें।

**सौजन्य से- हाईडलबर्ग सीमेंट इंडिया लिमिटेड, नरसिंहगढ़ दमोह (म.प्र.)**

1000 Stickers distribution at local market and villages to promote environmentally conscious lifestyle

Mass Plantation Activities







**Gyan Vahan with loudspeaker; To spread awareness regarding adopt environment friendly habits.**



**Inauguration of Gyan Vahan By Unit Head Diamond Cement (HCIL)**





Damoh, NH-12A, Damoh, Shrivastav Colony, Dr. Shyama Prasad Mukharji Nagar, Damoh, Madhya Pradesh 470661, A view after TL; Jointly Awareness session conducted by RO-MPPCB, mycem cement and Collector Damoh.



Awareness session at Collectorate Damoh.



Narsinghgarh, Madhya Pradesh, India  
 X9RW+FJM, NH 34, Narsinghgarh, Madhya Pradesh 470675, India  
 Lat 23.991204°  
 Long 79.396718°  
 29/05/23 12:37 PM GMT +05:30

A View During vehicle circulation



Damoh, Madhya Pradesh, India  
 Damoh, NH-12A, Damoh, Shrivastav Colony, Dr. Shyama Prasad Mukharji Nagar, Damoh, Madhya Pradesh 470661, India  
 Lat 23.817812°  
 Long 79.447433°  
 30/05/23 04:15 PM GMT +05:30

Gyan Vahan vehicle Mission LIFE awareness at Collectorate damoh.



GPS Map Camera  
 Damoh, Madhya Pradesh, India  
 RCPJ+7XX, Teen Gulli, Damoh, Madhya Pradesh 470661, India  
 Lat 23.835743°  
 Long 79.432371°  
 03/06/23 04:34 PM GMT +05:30

Gyan Vahan vehicle; Mission life theme awareness at Railway Station Damoh.



GPS Map Camera  
 Damoh, Madhya Pradesh, India  
 MP SH 49, Madhya Pradesh 470661, India  
 Lat 23.852493°  
 Long 79.441748°  
 03/06/23 04:17 PM GMT +05:30

Lifestyle for Environment; Participation by Police department.

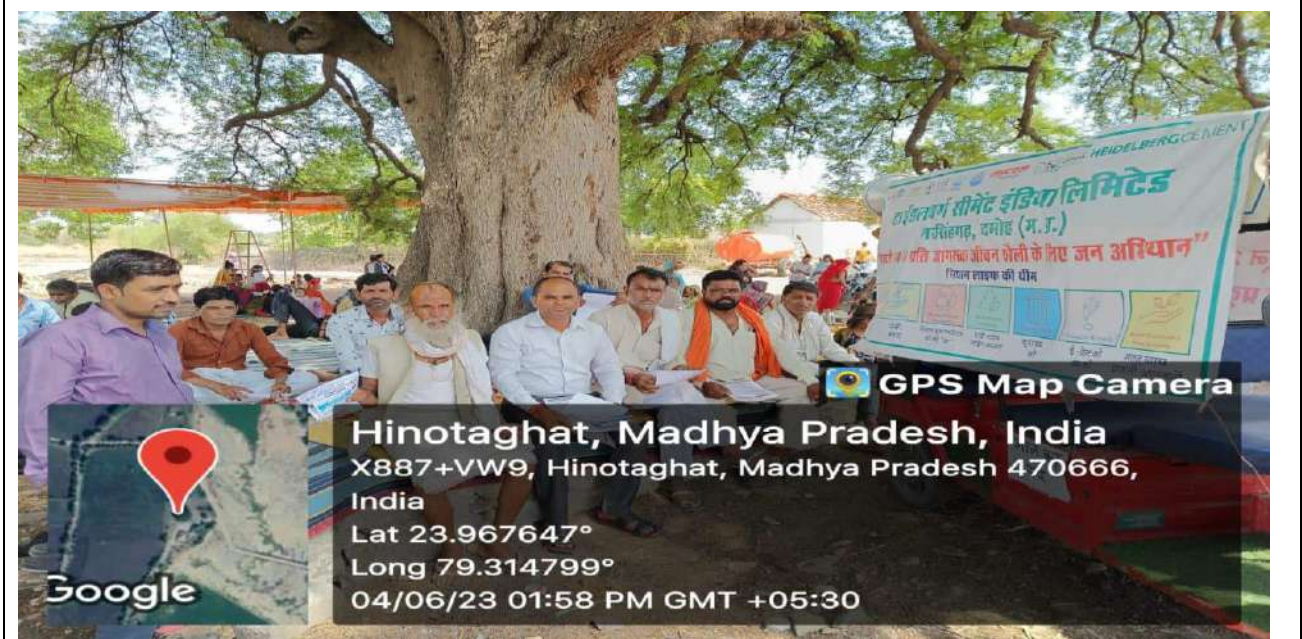


GPS Map Camera  
 Imli, Madhya Pradesh, India  
 VC8H+9WJ, Imli, Madhya Pradesh 470661, India  
 Lat 23.865093°  
 Long 79.429931°  
 01/06/23 05:32 PM GMT +05:30

Lifestyle for Environment Awareness session at our Imlai Grinding Unit.



Lifestyle for Environment Awareness; Community Participation.





दिनांक- 06/06/2023

**नईदुनिया**

## नरसिंहगढ़ सीमेंट फैक्ट्री में हुआ जागरूकता पखवाड़े का आयोजन

दमोह (नई दुनिया प्रतिनिधि)। म.प्र. प्रदूषण नियंत्रण बोर्ड, सागर एवं मायसेम सीमेंट नरसिंहगढ़ में फैक्ट्री प्रमुख सुनील कुमार के मार्गदर्शन में मिशन लाइफ कार्यक्रम के अंतर्गत जागरूकता पखवाड़ा का आयोजन किया गया। कार्यक्रम के दौरान नरसिंहगढ़ स्थित फैक्ट्री में चित्रकला प्रतियोगिता एवं पौधारोपण का आयोजन किया गया। जिसमें पाँच वर्ष से 13 वर्ष तक के बच्चों ने बड़े उत्साह से भाग लिया और चित्रकला के माध्यम से जल बचाओ एवं सिंगल यूज प्लास्टिक को कहेँ ना आदि सात मुख्य विषयों पर जोर दिया।



कार्यक्रम के दौरान बोर्ड के अधिकारी ने बताया, कि भारत के प्रधानमंत्री द्वारा संयुक्त राष्ट्र संघ में लाइफस्टाइल फॉर द एनवायरनमेंट को एक कैम्पेन के रूप में चलाए जाने का आह्वान किया गया था। जिसके क्रियान्वयन के लिए मिशन लाइफ अंतर्गत 18 मई से 5 जून तक पर्यावरण जन जागृति कार्यक्रम का आयोजन किया जा रहा है। जिसमें सात विषयों पर कंपनी या क्षेत्र में जनता के बीच जाकर जागृति देना है। म.प्र. प्रदूषण नियंत्रण बोर्ड, सागर के अधिकारी डॉ. आर. के जैन ने बच्चों को जल संरक्षण, ऊर्जा बचाव व सिंगल यूज प्लास्टिक

पौधा रोपण के दौरान मौजूद कंपनी के अधिकारीगण व अन्य लोग। •नईदुनिया

को कहेँ ना, सतत खाद्य प्रणाली, ई-वेस्ट एवं हेल्टी लाइफ स्टाइल एवं अपशिष्ट को कम करने के लिए उठाए जाने वाले कदमों के बारे में विस्तार से जानकारी दी। बच्चों के साथ-साथ अभिभावकों को भी पर्यावरण के प्रति जागरूकता कि शपथ दिलाई गई। जिससे हर व्यक्ति की आय स्रोत बढ़ने के साथ साथ बढ़ते प्रदूषण पर भी रोक लगेगी। हेडलबर्ग सीमेंट से पर्यावरण प्रमुख अशोक तिवारी ने कंपनी की टिकाऊ प्रगति जैसे की अधिक पानी संचय प्रणाली, नवीनकरण ऊर्जा का अधिकाधिक

प्रयोग एवं CO<sub>2</sub> उत्सर्जन को कम करने के बारे में विस्तृत व्याख्यान दिया। कंपनी अधिकारियों ने कहा कि एक बूंद पानी की कीमत बहुत अधिक है, यह किसी को जीवनदान दे सकता है। पृथ्वी का भूजल स्तर नीचे गिरता जा रहा है इसलिए जल संरक्षण के प्रति जागरूक होना बेहद जरूरी है। बोर्ड अधिकारियों एवं कंपनी अधिकारी वर्ग द्वारा लाइफ स्टाइल फॉर द एनवायरनमेंट कैम्पेन में बढ़चढ़ कर हिस्सा लिया गया। इसके अतिरिक्त कंपनी के परिसर में बरगद जैसे वृक्षों का पौधारोपण किया गया।

कार्यक्रम में प्रदूषण नियंत्रण बोर्ड के अधिकारी डॉ. आरके जैन, संजय जैन एवं हेडलबर्ग सीमेंट फैक्ट्री प्रमुख सुनील कुमार, आनंद प्रकाश, अखिलेश ताम्रकार, सुजीत मलिक, दीपक ठाकुर, डीपी तिवारी, एसके जैन, सुनील मोर्य, विजय श्रीवास्तव, अजय कुमार, बलवीर रावत आदि अधिकारी गण मौजूद रहे।

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