

Received  
25/9/18

HCIL:GMP:-304:2018:

The Regional Officer,  
U.P. Pollution Control Board  
U.P. Avas Vikas Parishad  
Talpura Yojna  
Kanpur Road  
Jhansi (UP)

**Diamond Cement**

(Prop: HeidelbergCement India Limited)  
CIN: L26942HR1958FLC0423C1

Village : Madora, P.O :Baratha Kaian,  
District : Jhansi, U.P - 284 121, India  
Phone +91-510-2750548, 49  
Fax +91-510-2750544  
Website: www.mycemco.com

22nd, Sep, 2018

**Sub: Environment Statement Report (Form – V) of Grinding Unit, Jhansi**

Dear Sir,

Please find enclosed herewith Environmental Audit Report for the Financial Year ended 31<sup>st</sup> March 2018 in triplicate.

Kindly acknowledge receipt.

Thanking you,

Yours faithfully,  
For Diamond Cements

**Manoj Vaish**  
General Manager(Production)

Encl:a/a

Encl: As above

cc: MEMBER SECRETARY  
U P POLLUTION CONTROL BOARD  
TC-12 V, VIBHUTI KHAND  
GOMTI NAGAR, LUCNOW(UP)

o/c

HEIDELBERGCEMENT

# ENVIRONMENT STATEMENT REPORT

(Form-V)

[Year 2017 - 2018]

REPORT BY

**HEIDELBERGCEMENT**

**DIAMOND CEMENTS**  
**(Prop. HeidelbergCement India Ltd.)**  
**Grinding Unit**  
**Jhansi Kanpur Road**  
**Village- Madora**  
**Distt.-Jhansi (U.P.) - 284121**

## DIAMOND CEMENTS - Grinding Unit

(Prop. HeidelbergCement India Ltd.)

Jhansi Kanpur Road

Village-Madora

DIST. JHANSI (U.P.) -

(For the Financial year ending 31<sup>st</sup> March 2018)

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## Integrated Management System Policy

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

- Produce cement much better than the applicable standards to satisfy the customer needs.
- Conform to all requirements of SA 8000 Standard and to respect the International instruments on social accountability
- Comply with all applicable legal, social and other requirements
- Involve and train human resources to upgrade their skills in all areas including safety.
- Regularly set and review objectives and targets for continual improvement in the quality, productivity, work environment, health & safety performance, energy, and Social accountability.
- Ensuring availability of Information and necessary resources to achieve Objectives and Targets
- Prevention of pollution.
- Prevention in occupational injuries and ill health. Eliminating hazards and reducing OH&S risks
- Supporting the purchase of energy efficient & eco-friendly technologies, products, services and design for energy performance improvement.
- Consultation and participation of workers, and, where they exist, workers' representatives.

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

**Date: 01.07.2018**

**-sd-  
Managing Director**

## INTRODUCTION

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.

The environment is now a catch for all, the industry, the government, the people. Hence, it is a joint responsibility to protect, preserve the environment and avoid the perishing of the natural treasures. At this critical junction of time and efforts, the Indian industry has fulfilled its commitment in maintaining the environmental integrity.

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.

The next few pages of this Environment Statement Report (ESR) of HeidelbergCement India Limited is based on factual data and verified records, will present a picture of more optimism for environmental care than ever before.

# **PART A, B & C**

# ENVIRONMENTAL STATEMENT REPORT

[FORM-V]

(See rule 14)

## PART-A

- (i) Name and address of the Owner/occupier of the industry, Operation or process : DIAMOND CEMENTS  
(Prop:HeidelbergCement India Limited)  
Jhansi-Kanpur Road  
Vill: Madora
- (ii) Industry category : Heavy
- (iii) Production capacity : 2.70 Million Ton/Annum
- (iv) Year of establishment : Cement Mill – 1 1989  
Cement Mill-2 2013
- (v) Date of the last Environmental statement submitted: 21.09.2017

## PART-B

### Water and Raw Material Consumption

(I) Water consumption M3  
Process} 41482 (April -17 to March – 18)  
Cooling} -  
Domestic } 32637

Name of products	Process water consumption per unit of products output	
	During the previous financial year	During the current financial year
	(1)	(2)
(1) Water	0.01892 KL/MT	0.01691 KL/MT

**(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 (%)
Fly Ash	Portland Pozzolna Cement	34.856	34.889
Gypsum		3.127	2.978
Clinker		62.018	62.133

**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) Water	Please see Annexure-3		
(b) Air	Please see Annexure-1 & Annexure-2		



# **PART D, E, F & G**

**PART-D  
Hazardous Wastes**

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

Hazardous Wastes		Total Quantity (kg)	
		During the Previous Financial year (MT)	During the Current Financial year (MT)
(a) From Process	(a) Spent/ Used Oil (Category 5.1) (Including TPP)	2.52	4.83
	(b) Residue containing waste oil (Category 5.2) Including( TPP)	1.62	2.88
(b) From Pollution control Facilities	N.A.	N.A.	N.A.

\* The above Hazardous Waste is not being generated from process, However this is generated from hydraulic machineries, gear oil, lubrication of machines and its related activities, which is being sold to registered to recycler

**PART-E  
Solid Wastes**

	Total Quantity	
	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.

## PART-F

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

Details given in Part –D. Hazardous waste is being sold to registered recycler.

We have separate storage yard for Hazardous waste.



Hazardous waste Storage Yard for Category 5.1 & 5.2 at Grinding Unit-Jhansi



## PART-G

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Impact of pollution abatement measures taken on conservation of natural resources.

Regular monitoring of Ambient air quality, stack emissions have been taken up to evaluate the efficiency of pollution control system and control measures on the overall emissions from stack and ambient air. Pollution control measures have already been taken at all the point of source emission and fugitive emission. Online CEMS data transmitted to CPCB & SPCB.



**Road Sweeping Machine**

# **PART H**

## 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 up gradation of the existing pollution control system and also adequate quantity of Pollution Control Equipment i.e. We have replaced the ESP of Cement Mill-1 by Bag house, Bag House, Dust Collectors, Water Sprinkler, STP, Green Belt Development. List of Pollution Control Devices given below.(In Annex.5)

### EXPENDITURE ON ENVIRONMENT MANAGEMENT INCURRED IN 2017-18

S. NO.	DETAILS	COST RS. LAKHS (APPROX)
1.	Stack and Ambient Air Quality Monitoring	5.95.
2.	Operation and maintenance of Sewage treatment plant	14.57
3.	Green belt Development and maintenance	21.47
4.	House Keeping Expenses	30.92
5.	Maintenance of Air Pollution Control Devices	28.20
6.	Operation & Maintenance of Municipal Solid waste	2.30
7.	Road Sweeping (Mechanized)	5.20
8.	Operation & Maintenance of CEMS & AAQMS	7.59
	<b>Total</b>	<b>116.20</b>

### PROPOSED EXPENDITURE ON ENVIRONMENT MANAGEMENT (FOR 2018-19)

S. NO.	DETAILS	COST RS. LAKHS (APPROX)
1.	Stack and Ambient Air Quality Monitoring	6.0
2.	Operation and maintenance of Sewage treatment plant	17.0
3.	Green belt Development and maintenance	25.0
4.	House Keeping Expenses	25.0
5.	Operation & Maintenance of Municipal Solid waste	3.0
6.	Maintenance of Air Pollution Control Devices	30.0
7.	Operation and Maintenance of CEMS & AAQMS	10.0
8.	Road sweeping (Mechanized)	6.0
	<b>Total</b>	<b>122.0</b>

## ANNEXURE-1

### Stack Emission results of Grinding Unit - Jhansi

Month	Cement Mill-1 (mg/nm <sup>3</sup> )	Cement Mill-2 (mg/nm <sup>3</sup> )
Apr-17	24.50	21.20
May-17	22.8	15.50
Jun-17	19.70	14.80
Jul-17	21.90	17.20
Aug-17	22.70	18.80
Sep-17	20.60	16.90
Oct-17	22.80	18.70
Nov-17	28.20	19.80
Dec-17	26.40	18.70
Jan-18	22.14	16.82
Feb-18	24.10	17.65
Mar-18	22.80	18.85

Monitored by Ecomen Laboratories (P) Ltd.  
Flat No.5-8, 2nd Floor, Arif Chamber V, Sector H, Aliganj, Lucknow - 226 024

## ANNEXURE-2

**M/s Diamond Cement (Prop. HeidelbergCement India Limited)  
Grinding Unit-Jhansi(UP)  
Ambient Air Quality Report (Monthly Average)**

Month: April 2017

Location	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
Near ADM building	65.50	33.85	258	10.96	21.12
Near Khatibaba Temple	70.10	37.20	254	10.92	21.23
Behind New Weigh bridge	74.90	42.10	255	11.04	21.32
Near 132 Kv switch yard	70.30	37.60	259	10.92	21.29

Month: May 2017

Location	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
Near ADM building	68.20	31.90	262	11.13	21.30
Near Khatibaba Temple	72.50	34.80	254	11.10	21.44
Behind New Weigh bridge	74.60	40.60	257	11.04	21.47
Near 132 Kv switch yard	69.80	36.80	261	11.10	21.38

Month: June 2017

Location	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
Near ADM building	64.10	28.40	257	10.31	19.95
Near Khatibaba Temple	65.30	30.20	251	9.97	19.53
Behind New Weigh bridge	71.80	35.20	256	10.24	19.76
Near 132 Kv switch yard	63.70	33.90	260	10.20	19.50



<b>TEST REPORT OF AMBIENT AIR QUALITY MONITORING</b>
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Month: July 2017

Location	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
Near ADM building	68.25	28.90	260	11.11	21.71
Near Khatibaba Temple	70.50	32.85	253	11.09	19.53
Behind New Weigh bridge	71.65	36.60	257	11.06	21.34
Near 132 Kv switch yard	64.50	33.80	254	11.08	21.51

Month: August 2017

ocation	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
Near ADM building	67.70	29.20	249	11.05	21.39
Near Khatibaba Temple	69.30	33.50	246	10.96	20.86
Behind New Weigh bridge	70.80	37.80	250	11.10	21.19
Near 132 Kv switch yard	65.70	34.30	248	10.89	21.04

Month: September 2017

Location	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
Near ADM building	65.70	29.45	258	11.07	21.60
Near Khatibaba Temple	69.50	33.10	254	11.0	21.03
Behind New Weigh bridge	70.20	35.85	257	11.09	21.09
Near 132 Kv switch yard	62.40	32.90	256	11.03	21.13

Month: October 2017

Location	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
Near ADM building	62.80	30.25	258	11.03	21.06
Near Khatibaba Temple	65.50	34.10	256	10.98	20.87
Behind New Weigh bridge	72.50	38.60	262	11.09	21.17
Near 132 Kv switch yard	64.60	33.10	257	10.97	20.85

Month: November 2017

Location	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
Near ADM building	60.35	29.50	259	11.16	21.03
Near Khatibaba Temple	62.80	32.25	256	10.98	20.87
Behind New Weigh bridge	70.25	36.80	262	11.14	20.93
Near 132 Kv switch yard	62.70	32.30	260	11.25	20.64

Month: December 2017

Location	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
Near ADM building	61.75	30.60	252	11.45	21.39
Near Khatibaba Temple	67.60	31.80	264	11.44	20.93
Behind New Weigh bridge	69.80	35.45	265	11.43	21.37
Near 132 Kv switch yard	64.40	32.10	263	11.45	21.14

Month: January 2018

Location	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
Near ADM building	70.35	33.80	273	11.82	21.28
Near Khatibaba Temple	73.60	35.60	272	11.79	21.04
Behind New Weigh bridge	78.50	42.40	274	12.23	21.59
Near 132 Kv switch yard	75.20	41.50	273	12.01	21.45

Month: February 2018

Location	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
Near ADM building	60.20	29.62	268	11.98	21.59
Near Khatibaba Temple	74.60	34.85	271	11.81	21.36
Behind New Weigh bridge	76.80	36.90	272	12.05	21.96
Near 132 Kv switch yard	68.60	30.80	268	11.89	22.13

Month: March 2017

Location	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
Near ADM building	62.75	26.60	266	11.38	20.97
Near Khatibaba Temple	71.85	30.50	287	11.83	21.27
Behind New Weigh bridge	74.80	32.30	263	11.24	20.86
Near 132 Kv switch yard	67.20	29.40	265	11.47	20.51

Location	Ozone ( $\mu\text{g}/\text{m}^3$ )	Ammonia ( $\mu\text{g}/\text{m}^3$ )	Lead ( $\mu\text{g}/\text{m}^3$ )	Benzene ( $\mu\text{g}/\text{m}^3$ )	Benzo(a) Pyrene ( $\mu\text{g}/\text{m}^3$ )	Arsenic ( $\mu\text{g}/\text{m}^3$ )	Nickel ( $\mu\text{g}/\text{m}^3$ )
Near ADM building	4.62	3.95	BDL	BDL	BDL	BDL	BDL
Near Khatibaba Temple	5.10	3.68	BDL	BDL	BDL	BDL	BDL
Behind New Weigh bridge	4.96	3.93	BDL	BDL	BDL	BDL	BDL
Near 132 Kv switch yard	4.83	4.10	BDL	BDL	BDL	BDL	BDL

ANNEXURE-3

M/s Diamond Cement (Prop. HeidelbergCement India Limited)  
Grinding Unit-Jhansi (UP)

Results of Treated Sewage Water

S. No.	Parameters	14-04-17	10-05-17	22-06-17	15-07-17	31-08-17	13-09-17	19-10-17	18-11-17	19-12-17	13-01-18	18-02-18	20-03-18
		STP Outlet	STP Outlet	STP Outlet	STP Outlet	STP Outlet	STP Outlet	STP Outlet	STP Outlet	STP Outlet	STP Outlet	STP Outlet	STP Outlet
1	pH	7.40	7.68	7.50	7.38	7.30	7.26	7.38	7.45	7.56	7.48	7.68	7.55
2	TSS	42.60	48.0	46.0	41.50	44.50	42.0	40.60	56.50	52.0	59.60	59.0	64.0
3	BOD	18	22.60	18.40	16.0	21.0	18.0	20.50	23.0	20.0	22.0	21.0	20.0
4	COD	54.0	62.98	58.50	52.0	63.0	58.0	60.0	78.0	72.0	80.0	76.0	80.0
5	Oil & Grease	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

**Note:** All parameters are in mg/l except pH  
ND- Not Detectable

Monitored by Ecomen Laboratories (P) Ltd  
Flat No.5-8, 2nd Floor, Arif Chamber V, Sector H, Aliganj, Lucknow - 226 024

**ANNEXURE-4**

M/s Diamond Cements (Prop. HeidelbergCement India Limited)  
Grinding Unit-Jhansi(UP)

AMBIENT NOISE LEVEL [Leq Value in dB(A)]

Location→	Nr Khatibaba Temple		Near Hostel		Near Sub Station		Nr. Worker Colony	
	Day	Night	Day	Night	Day	Night	Day	Night
Apr-17	53.2	41.7	51.5	40.4	60.5	50.1	46.5	40.80
May-17	54.1	42.4	50.3	40.8	61.2	51.5	45.4	40.3
Jun-17	53.5	41.3	49.8	40.5	60.3	50.5	45.9	41.4
Jul-17	53.6	42.3	50.4	40.1	60.5	50.4	45.6	40.8
Aug-17	52.4	43.5	50.2	41.8	61.4	50.1	45.1	40.2
Sep-17	52.8	42.6	50.1	40.3	61.3	50.8	44.8	4.2
Oct-17	51.7	42.3	50.5	40.8	62.2	51.6	44.4	40.4
Nov-17	52.1	42.1	50.6	40.5	61.8	51.9	44.8	40.1
Dec-17	51.8	41.5	50.2	40.8	62.7	52.3	43.9	40.5
Jan-18	55.4	43.5	52.8	45.8	62.6	52.6	53.5	48.5
Feb-18	50.2	40.8	49.8	41.2	61.9	51.4	43.2	40.1
Mar-18	51.80	40.4	48.1	42.6	60.5	50.1	43.4	41.6

Monitored by Ecomen Laboratories (P) Ltd  
Flat No.5-8, 2nd Floor, Arif Chamber V, Sector H, Aliganj, Lucknow - 226 024

**ANNEXURE-5**

**Details of Pollution Control Measures installed at various locations  
Diamond Cement, Jhansi (U.P.)**

**Details of Pollution Control Equipment – Cement Mill-1 & Cement Mill-2**

S. No.	Location of PCM	PCM
<b>Clinkerisation unit Narsingharh</b>		
1	Wagon Tippler	Bag House
2	Cement Mill-2	Bag House
3	Cement Mill-1	Bag House
4	Belt conveyor of Wagon Tippler	Bag filter
5	Wagon Tippler belt conveyor transfer point	Bag filter
6	Clinker stock pile top	Bag filter
7	Gypsum Crusher	Bag filter
8	Gypsum Crusher discharge belt	Bag filter
9	Gypsum Crusher discharge belt transfer point	Bag filter
10	Gypsum Hopper	Bag filter
11	Clinker transport belt-10	Bag filter
12	Clinker transport belt-20	Bag filter
13	Clinker transport belt-30	Bag filter
14	Pan conveyor discharge	Bag filter
15	Clinker hopper top	Bag filter
16	Fly Ash silo top	Bag filter
17	Fly ash silo extraction	Bag filter
18	Fly ash silo elevator discharge(Near Silo)	Bag filter
19	Fly ash silo elevator(Near mill building)	Bag filter
20	Fly ash Elevator discharge	Bag filter
21	Weigh feeder discharge	Bag filter
22	Mill feed belt	Bag filter
23	Recirculation circuit	Bag filter
24	Fly ash Bin top	Bag filter
25	Fly ash bin discharge	Bag filter
26	Bag House air slide	Bag filter
27	Cement Silo-1 extraction	Bag filter
28	Cement Silo feed elevator	Bag filter
29	Cement Silo-2 extraction	Bag filter
30	Cement Silo-1 top	Bag filter
31	Cement Silo-2 top	Bag filter
32	Packer-1 Elevator	Bag filter
33	Packer-2 Elevator	Bag filter
34	Packing plant Packer-1	Bag filter
35	Packing plant Packer-2	Bag filter
36	Packer-1 air slide & Bin	Bag filter

## HEIDELBERG CEMENT

37	Packer-2 air slide & Bin	Bag filter
38	Packing Plant packer-3	Bag filter
39	Packing Plant packer-4	Bag filter
40	Packer-3 air slide & Bin	Bag filter
41	Packer-3 air slide & Bin	Bag filter
42	Cement Silo-3	Bag filter
43	Cement Silo-3	Bag filter
44	Hopper feed belt transfer point of Cement Mill-1	Bag filter
45	Cement Mill Separator	Bag filter
46	Hopper top of Cement Mill-1	Bag filter
47	Truck Tippler	Bag filter
48	Fly Ash Silo	Bag filter
49	Cement Mill-1 Roller press	Bag filter



**Celebrations of World Environment Day, 5<sup>th</sup> June 2017**

**HeidelbergCement India Ltd, Jhansi organized a “Environment Quiz & Awareness Rally” at Jhansi plant on the eve of Environment day.**



**Plant Photo**



Gree Area Development in the Plant Area



HEIDELBERGCEMENT



**Gree Area in the Colony Area**

