ADITYA BIRLA

UltraTech

UTCL/BAGHERI/ENV/2024-25/16
Date: 20.09.2024

To,
The Member Secretary,
HP State Pollution Control Board,
Him Parivesh, Phase III,
New Shimla, HP-171009

Subject: - Submission of Environmental Statement Report (FORM-V) of the FY- 2023-2024 for Cement Grinding Unit (2.0 MTPA) at Village Pandiyana (Tikri), Near bagheri, Post-Khillian, Tehsil- Nalagarh Distt.- Solan , Himachal Pradesh by M/s UltraTech Cement Ltd. (Unit:- Bagheri Cement Works).

Ref:-
1. Consent to operate Letter No. CTO/BOTH/RENEW/RO/2024/11650638 dated. 21.05.2024.
2. Environment Clearance granted by Ministry of Environment and Forest vide letter No. F. No. J-11011/123/2009-IAII (I) Dated 27th February, 2010.
3. EC Transfer in the name of UltraTech Letter No. F. No. J-11011/123/2009-IAII (I) 26th June 2018.

Dear Sir,

This has reference to the above cited subject matter; we are submitting herewith the Environmental Statement Report (Form-V) for the financial year 2023-2024 for UltraTech Cement Ltd, Unit: Bagheri Cement Works at Village Pandiyana (Tikri), Near Bagheri, Post-Khillian, Tehsil- Nalagarh Distt. - Solan, Himachal Pradesh by M/s UltraTech Cement Ltd. (Unit: - Bagheri Cement Works).

This is for your kind information & record keeping purpose please.

Thanking you,
Your faithfully,
For: UltraTech Cement Limited
(Unit:- Bagheri Cement Works)

Amit Kumar Dubey
(Sr. Vice president & GUH)

Encl:- As above

CC : 1. The Addl. Principal Chief Conservator of Forests (C), Ministry of Env., Forest and Climate Change, Integrated Regional Office, 25, Subhash Road, Dehradun -248001.
2. The Inspector General of Forests (C), Ministry of Env., Forest and Climate Change, Integrated Regional Office, Shimla 1st & 2ndFloor, C.G.O. Complex, Longwood, Shimla-171001.
3. Regional Officer, Sr. Environmental Engineer, Regional Office, HPSPCB, Baddi -173205 (HP).
4. Regional Director, Central Pollution Control Board, Paryavaran Bhawan, Ground Floor, Sector-19 B, Madhya Marg, Chandigarh.

ENVIRONMENTAL STATEMENT REPORT

[2023-2024]

ADITYA BIRLA

UltraTech

ULTRATECH CEMENT LIMITED

UNIT: BAGHERI CEMENT WORKS

SUBMITTED TO

H.P STATE POLLUTION CONTROL BOARD

"FORM – V"
(See rule 14)

ENVIRONMENTAL STATEMENT for the financial year ending the 31st March 2024

PART – A

(I)	Name & Address of the Owner / Occupier of the Industry Operation or Process	UltraTech Cement Ltd, (Unit: Bagheri Cement Works). Village -Pandiyana (Tikri), Post- Bagheri, Tehsil -Nalagarh, District -Solan, (H P), Pin-174101
(II)	Industry Category Primary (STC CODE) Secondary (SIC CODE)	Red category and Large (Cement manufacturing) Primary STC Category
(III)	Production Capacity	1.75 MTPA (Cement)
(IV)	Year of Establishment	Year: 2010
(V)	Date of last Environmental Statement Submitted	07.09.2023

PART – B

Water & Raw Material Consumption

A. Water

(i) Water Consumption- m^3/day

(a) Process- **Nil**

(b) Cooling & Spraying- 46.096 **m^3/day**

(c) Domestic- 333.17 **m3/day**

ULTRATECH CEMENT LTD. BAGHERI 174101 Bagheri Cement Works

(ii) Consumption per unit of production

Name of the Product	Process/ cooling Water Consumption per unit of Product Output	
	During the previous Financial Year (2022-2023)	During the Current Financial Year (2023-2024)
Cement	0.00780	0.00887

B. Raw Material Consumption

Name of the Raw Material	Name of Product	Consumption of Raw Material per Unit Product Output (MT/MT of Cement)	
		During the Previous Financial Year (2022-2023)	During the Current Financial Year (2023-2024)
1. Clinker	Cement	0.6280	0.6232
2. Fly Ash		0.3453	0.3449
3. Gypsum		0.0266	0.03193

3. Power consumption KWH/Per Ton of Cement

During the previous financial year (2022-23)	During the current financial year (2023-24)
27.791 kwh/MT	28.972 kwh/MT

ULTRATECH CEMENT LTD. BAGHERI 174101 Bagheri Cement Works

4. Total Cement Production

Production	Production of Cement (MT)	
	During the previous financial year (2022-23)	During the current financial year (2023-24)
Cement	1721190 MT	1749971 MT

Production data for FY 2023 – 24:

Total Cement Production - 1749971.0 MT.
Total Clinker Consumption - 1090546.0 MT.
Total Fly ash Consumption - 603544.12 MT.
Total Gypsum Consumption - 55881.398 MT.

PART – C

Pollutant Discharged To Environment / Unit of Output (FY 2023-2024)

(Parameters as specified in the consent issued)

S. No.	Pollutants	Quantity of Pollutants Discharged (Mass / day) (tonne/day)	Concentrations of Pollutants in discharged (Mass / Volume) (mg/Nm3)	Percentage of variation from prescribed standard with reasons
(a)	**Water**	Cement Manufacturing process is based on dry process technology. Hence, no waste water is generated from plant process. Only domestic waste water is being generated & treated which is treated in the STP of 210 KLD capacity. This treated water is being used for horticulture and sprinkling purpose within the plant premises.		
(b)	**Air**			

ULTRATECH CEMENT LTD. BAGHERI 174101 Baghera Cement Works

	Stack emission: **(Stack attached with Cement Mill)**	<table><tr><th>Parameter</th><th>Min</th><th>Max</th><th>Avg.</th></tr><tr><td>PM</td><td>8.5</td><td>19</td><td>13.93</td></tr></table>	The parameter is Within the permissible limit.

PART – D

As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

Hazardous Waste			**Total Quantity (KL)**	
			During the Previous Financial Year (2022-2023)	**During the Current Financial Year (2023-2024)**
(a)	From Process	Generated	Used Oil- 1260 Ltr Grease- 1.090 KL	Used Oil- 2310 Ltr Grease- 1080 Kg
		Sold Out	Used Oil- 1260 Ltr Grease- 1.090 KL	Used Oil- 2310 Ltr Grease- 900 Kg
		In storage at the end of FY	Used Oil- 0.0 Ltr Grease- 0.0 KL	Used Oil- 0.0 Ltr Grease- 180 Kg
(b)	From Pollution Control Facilities.		NIL	NIL

ULTRATECH CEMENT LTD. BAGHERI 174101 Bagheri Cement Works

PART – E

Solid Waste

Solid Waste		Total Quantity	
		During the Previous Financial Year (2022-2023)	During the Current Financial Year (2023-2024)
(a)	From Process	No solid waste generated from the cement Manufacturing process.	
(b)	From Pollution Control facilities	The dust collected in the Bag House and Bag Filters recycled back in the cement manufacturing process.	
(c)	(i) Qty. recycled or reused Within the unit.	100% reutilized in the cement manufacturing process	100% reutilized in the cement manufacturing process
	(ii) Sold	NA	NA
	(iii) Disposed	NA	NA

PART – F

PLEASE SPECIFY THE CHARACTERISATIONS (IN TERMS OF COMPOSITION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES.

S. No.	Waste Generation	Source	Qty. of waste generated during the year	Qty. of waste dispose during the year	Accumulated Quantity (as on 31.03.2024)	Disposal Method
Hazardous Waste						
1.	Used Oil (Cat. 5.1)	Cement Plant	2310.00 Ltr.	2310.00 Ltr.	0.00 Ltr.	Sold to the authorized recyclers

ULTRATECH CEMENT LTD. BAGHERI 174101 Bagheri Cement Works

2.	Grease (Cat. 5.2)		1080 Kg.	900.00 Kg.	180.00 Kg.	Sold to the authorized recyclers

Other Solid Waste (Generated from entire plant premises):

Description of Waste	Qty. of waste generated during the year (MT)	Disposed (MT)	Accumulated Quantity (as on 31.03.2024)	Disposal Method	Equipment Facility Used
Metal Scrap	33.36	33.36	NIL	Sold to Authorized Vendors	-
Burst PP Bags/Wrappers	30.25	30.25	NIL	Sold to Authorized Vendors	-
Rubber Waste (Conveyor Belt)	4.21	4.21	NIL	Sold to Authorized Vendors	-
E-waste (Electrical/Electronics/IT-Waste) etc.	5.01	5.01	NIL	Sold to Authorized Recycler	-
Batteries Waste	1.240	1.240	NIL	Sold to Authorized Recycler	-
Bio-Medical Waste	0.01078	0.01078	NIL	Sold to Authorized CBMWTF	

Hazardous waste:

All in house generated used spend Oil (cat. 5.1) and Grease (Cat. 5.2) from the different sections of plant (Machineries/Equipment) is being collected in close MS

drums/barrels and then stored at Hazardous waste storage room that has been made as per Hazardous and Other Wastes (Management and transboundary Movement Rules), 2016. This hazardous waste is sold out to authorized recycler.

Solid waste:

There is no solid waste generated during the process of cement manufacturing.

Batteries Waste Management: -

Complying with the provisional under Battery Waste Management Rules, 2022 as a bulk consumer.

E-waste Management: -

Complying with the provisions under E-waste (management) Rules 2022, and its subsequent amendment as a Bulk consumer. The E-waste generated from the unit is being sold out only to authorized E-waste recyclers.

Bio Medical waste Management: -

Complying with the provision under Bio-Medical waste Management Rules 2016, and its subsequent amendment for the segregation and disposal of Bio-Medical waste generated from OHC centre.

The Bio-Medical waste is being segregated into coloured bins and disposed through the authorized CBMWTDF i.e. M/s Enviro Engineers and its own vehicle used for the transportation of Bio-Medical waste.

PART – G

IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION.

Following measures have been adopted for abatement of pollution, conservation of natural resources: -

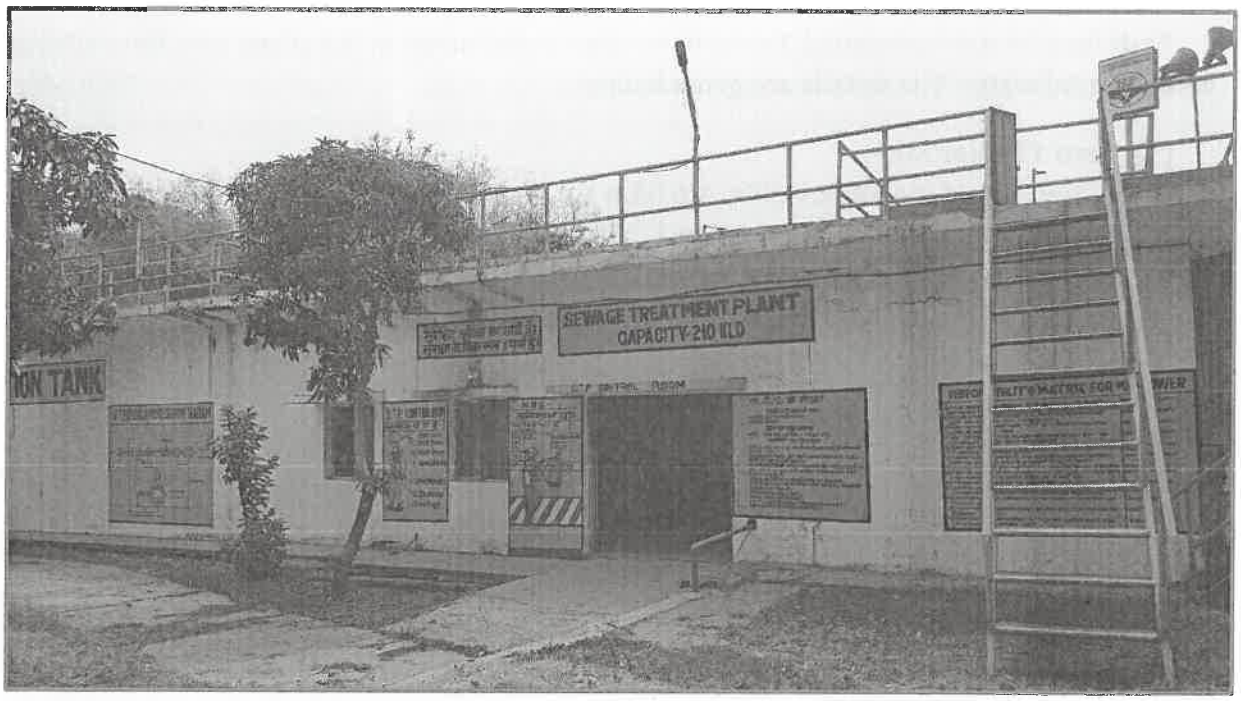
1. **Utilization of fly ash for the manufacturing of cement:**
   We are consuming approx. 1200-1800 MT of fly ash per day from different Thermal Power Plants transported in closed container & Bulker and stored in closed silos from where it has been pneumatically conveyed to cement mill for cement grinding process.

2. **Use of STP treated water for the plantation purpose:**
   We have latest and advance technology-based Sewage Treatment Plant which comprises of:

ULTRATECH CEMENT LTD. BAGHERI TF4101 Bagheri Cement Works

1. Neutralization Tank
2. Aerator blower
3. Aeration Tanks
4. Clarifiers
5. Chlorine Contact Tank
6. Pressure Sand Filter and
7. Activated Carbon Filter

The capacity of sewage treatment plant is 210 KL per day. The sewage water collected from the different part of colony is being collected in raw sewage tank where blowing is being done for homogenization of raw sewage water. Then this homogenized sewage water comes to Aeration tank for sufficient aeration of sewage water and then conveyed to clarifier where the suspended particle is being settle through mechanical clarification system. After this clarified water collected in intermediate holding tank and sludge settled at the bottom of clarifier is transported to sludge drying beds. Now the water from the intermediate tank is passed through pressure sand filter and then activated carbon filter and ultimately collected in the final holding tank and bring down the treated water quality within permissible limit. The treated water is being reused in horticulture, green belt development and dust suppression & STP sludge is being used as manure for Green Belt Development.



ULTRATECH CEMENT LTD.
BAGHERI
174101
Bagheri Cement Works

Photographs of Sewage Treatment Plant

3. Rain Water Harvesting Measures

Four Rain Water harvesting Tanks have been constructed at the plant area for recharge of ground water. The details are given below:

[1] Near Clinker Silo

a) Dimension of the Tank: 8.00m X 6.00m X 2.50m

b) Total Volume of the Tank = 120 m^3

c) The storm water drains of Cement Mill, Dump hopper, Administrative Building, Packing Plant, Weigh Bridge, and Main Gate are connected to the pond.

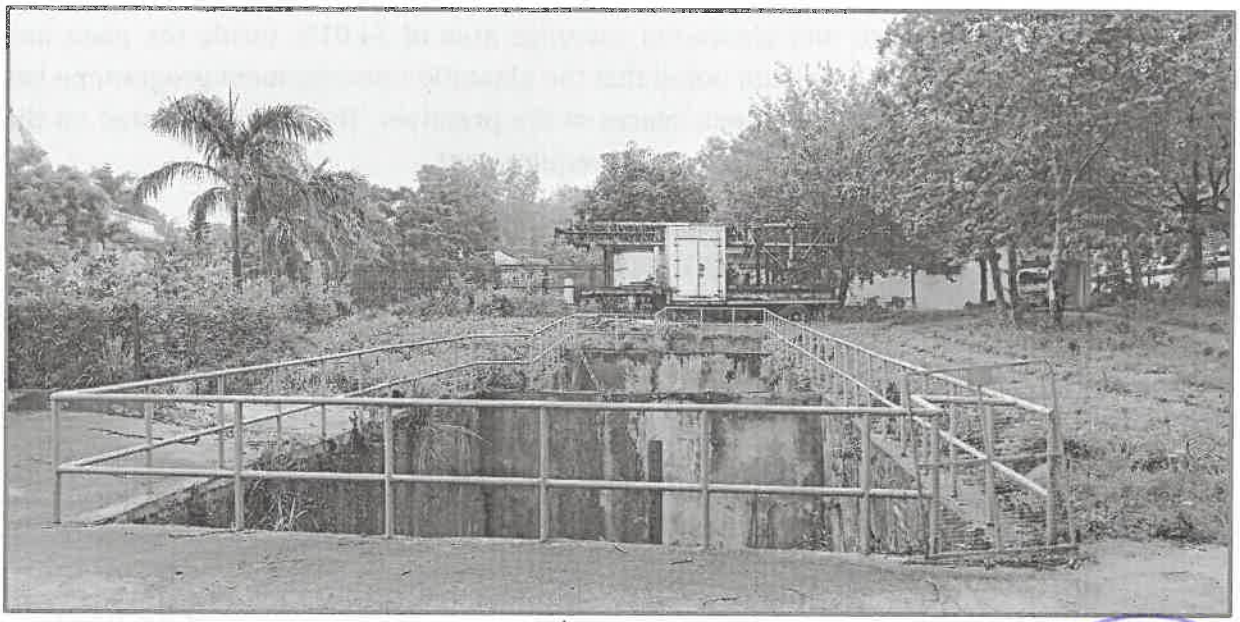
[2] Near Auto workshop

Dimension of the Tank: 18.00m X 8.00m X 3.00m

a) Total Volume of the Tank = 432 m^3
b) The storm water drains of DG house, Auto workshop area, and 132 KVA substations.

[3] Near Club

a) Dimension of the Tank: 10.00m X 6.00m X 3.00m
b) Total Volume of the Tank = 180 m^3
c) The storm water drains of Township, Field hostel-4 & 5, Club area.

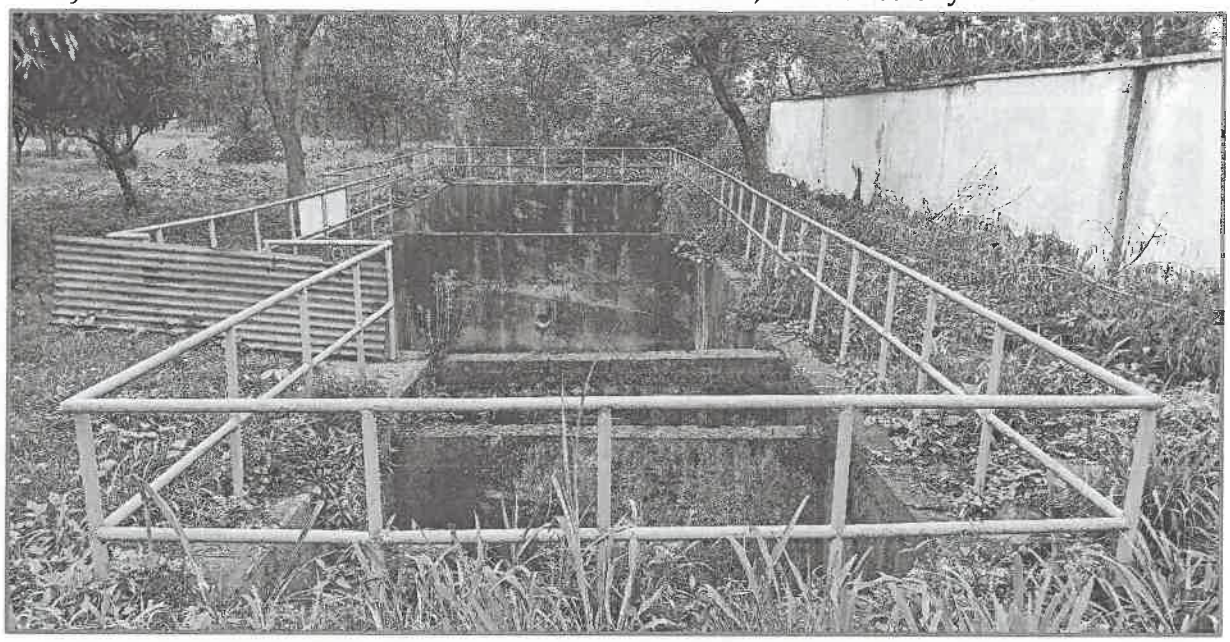


[4]Near Cow Shed

a) Dimension of the Tank: 10.00m X 6.00m X 5.00m

b) Total Volume of the Tank = 300 m^3

c) The storm water drains of Field hostel No.-1 & 2, Worker colony.



4. Extensive plantation in and around the plant:

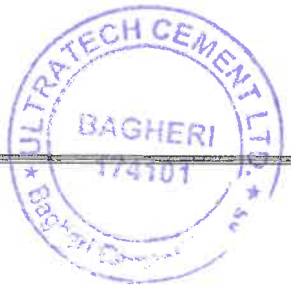
Tree plantation is an integral part to the environment management plan of the unit. The plantation drive is being carried out throughout the year. We have dedicated team of skilled horticultural worker for plantation work and horiculture with special reference to high density plantation (HDP) and green belt development program at our plant under the supervision of experienced person (Horticulture Officer).

We have the green belt and plantation coverage area of 34.01% inside the plant and colony premises. It has also been noted that the plantation development programme has been started in the remaining open spaces of the premises. The species planted on the basis of their dust tolerance and low water requirement.

Plantation details are shown in the following table:

GREEN BELT DEVELOPMENT DETAILS				
Sr. No.	**Year**	**Type**	**No. of Plant Planted**	**Species of Plant planted**
1	January 2010 To Sep. 2010	Trees	1200	Mango,Lemon, Guava, Black berry, Silver Oaks Gulmohar, Mol shree, Alostonia.
		Creepers	250	Vougainvillia, Vegonia, Clitoria,

		Shrubs	6000	Duranta, Hamilia, irisine, Nerium, Murrya, Acalypha,
		Seasonal Flower	2500	Pitonia, Tegetis, Calandula,Pansy, Iceplant, verbina, Sun Flower, Rose, Dahalia
2	October 2010 To March 2011	Trees	900	Mango,Lemon, Guava, Black berry, Silver Oaks Gulmohar, Mol shree, Alostonia, Ashok, Esterculia
		Creepers	150	Vougainvillia, Vegonia, Clitoria,
		Shrubs	2550	Duranta, Hamilia, irisine, Nerium, Murrya, Acalypha,
		Seasonal Flower	1550	Pitonia, Tegetis, Calandula, Pansy, Iceplant, verbina, Sun Flower Rose, Dahalia
3	April 2011 To Sep. 2011	Trees	1050	Mango,Lemon, Guava, Black berry, Silver Oaks Gulmohar, Mol shree, Alostonia, Ashok, Esterculia
		Shrubs	5000	Duranta, Hamilia, irisine, Nerium, Murrya, Acalypha,
4	Oct. 2011 To March, 2012	Trees	300	Alostonia, Aerocoria, Juniparous
		Shrubs	3000	Duranta, Hemalia, Inermi,
		Seasonal Flower	4000	Pitonia, Tegetis, Calandula,Pansy, Iceplant, verbina, Sun Flower, Rose, Dahalia
5	April 2012 To Sep.2012	Trees	3208	Juniparous,Tuni,Shisham,Chakresia,Kachnar,Kanakchmpa,Venjomia,Kesia, Silveroak,Arjun, Ashok,Mango, Guava
		Shrubs	2500	Duranta, Hemalia, Inermi,
		Seasonal Flower	1000	Gainda. Verbina, Sunflower
6	October, 2012 to March, 2013	Trees	500	Mango, Guava, Amla, Neem, Pipal, Bargad, Bottle Palm, Ficus Benjomina, Cycus, Bottle Brush, Gulmohar etc.
		Shrubs	1500	Inermi, Duranto etc.
		Seasonal Flower	5000	Sunflower, Guinda, Verbina, Putinia, Gajonia, Pansy, Dahlia, Guldawadi, Rose etc.
7	April, 2013 to Sep, 2013	Trees	3500	Mango, Chakresia, Sisam, Tuni, Kachnar, Sehtut, Lisoda, Nim & Bargad etc.
		Shrubs	1000	Duranto, Hamelia & Inermi etc.
		Seasonal Flower	4000	Tezatis, Sunflower & Orbina etc.
8	October, 2013 to March, 2014	Trees	100	Bottle pulm, Ficus benjomina,
		Shrubs	200	Duranta, Nerium Indica etc.



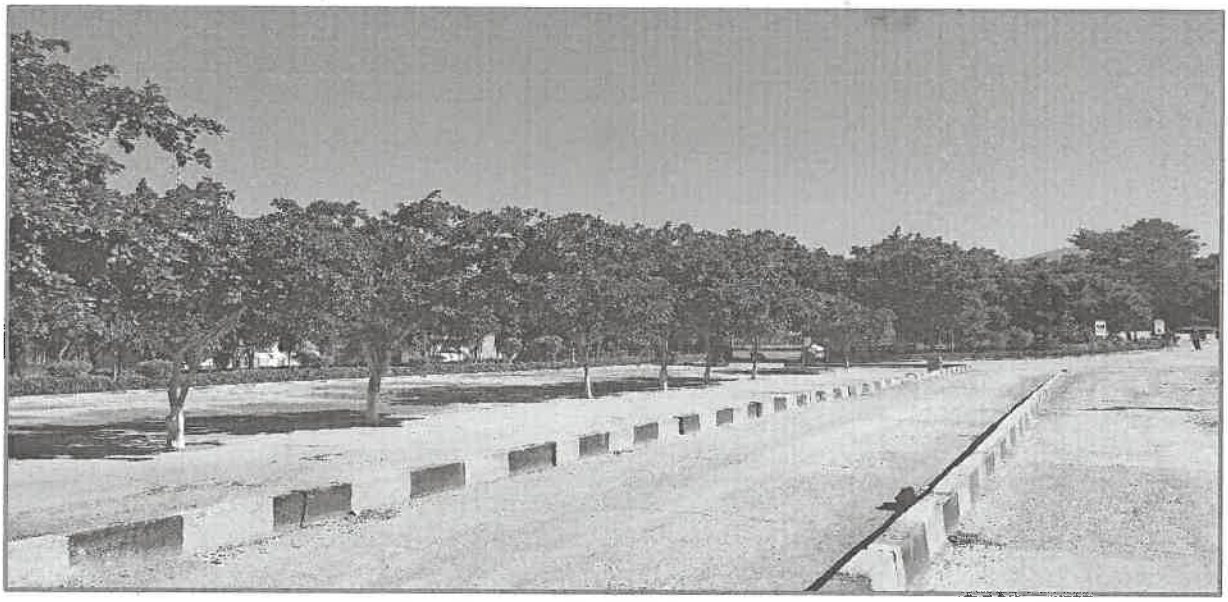
		Seasonal Flower	2500	Tezatis, Sunflower & Orbina etc.
9	April,2014-, Sep,2014	Trees	950	Chakresia, Kachnar, Tuni, Shisham, Mango, Arjun, Kenar etc
		Shrubs	500	Duranto, Hamelia & Inermi etc.
		Seasonal Flower	3000	Tezatis, Sunflower & Orbina etc.
10	October,2014 to March,2015	Trees	1137	Chakresia, Silver Oak, Kanak Champa, Populas, Subabul, Eucalyuptus, Ficus Gulemeratus, Kachnar, Tuni, Shisham, Mango, Arjun, Kenar etc
		Shrubs	800	Duranta, Hamelia etc
		Seasonal Flower	3000	Gandha, Jinia, Orbina, Pitunia, Sunflower etc
11	April,2015 to March, 2016	Trees	186	Silver Oak, Kanak Champa, Populas, Subabul, , Ficus Gulemeratus, Kachnar, Tuni, Shisham, Mango, Arjun,etc
		Shrubs	320	Duranta, Hamelia etc
		Seasonal Flower	850	Gandha, Jinia, Orbina, Pitunia, Sunflower etc
12	April,2016 to Sep,2016	Trees	450	Silver Oak, Kanak Champa, , Subabul, , Ficus Gulemeratus, , Tuni, Shisham, Mango, Arjun,etc
		Shrubs	260	Duranta, Hamelia ,Inermi,Bouganvilia ,Chandni etc
		Seasonal Flower	3200	Gandha, Jinia, Verbina, Pitunia, Sunflower, etc
13	Oct,2016 to March,2017	Trees	275	Kanak Champa, , Ficus Gulemeratus, , Tuni, Shisham, Mango, Arjun,etc
		Shrubs	150	Duranta, Hamelia ,Inermi,Bouganvilia ,Chandni etc
		Seasonal Flower	1500	Gandha, Jinia, Verbina, Pitunia, Sunflower, etc
14	April,2017 to Sep.,2017	Trees	285	Jamun,Moricealba,Shisham ,Tuni, Mango, Arjun, Pipal etc.

		Shrubs	130	Duranta, Hamelia ,Inermi,Bouganvilia ,Chandni etc
		Seasonal Flower	1350	Gandha, Jinia, Verbina, Pitunia, Sunflower, etc
15	Oct,2017 to March,2018	Trees	275	Kanak Champa, , Ficus Gulemeratus, , Tuni, Shisham, Mango, Arjun,etc
		Shrubs	150	Duranta, Hamelia ,Inermi,Bouganvilia ,Chandni etc
		Seasonal Flower	1500	Gandha, Jinia, Verbina, Pitunia, Sunflower, etc
16	April,2018 to Sep.,2018	Trees	260	Jamun,,Shisham ,Tuni, Mango, Arjun, Pipal,Bargad,Amla,Neem etc.
		Shrubs	265	Duranta, Hamelia ,Inermi,Bouganvilia ,Chandni,Amaltas,Harsingar etc
		Seasonal Flower	210	Gandha, Jinia, Verbina, Pitunia, Sunflower, Rose, Chameli etc
17	Oct,2018 to March, 2019	Trees	120	Tuni, Shisham, Mango, Arjun, Pipal, Neem, etc
		Shrubs	170	Duranta, Hamelia ,Bouganvilia ,Amaltas,Harsingar etc
		Seasonal Flower	130	Gandha, Jinia, Verbina, Pitunia, Sunflower, Kachnar, Rose,Chameli,Kaner etc
18	April ,2019 to March 2020	Trees	160	Tuni, Shisham, Mango, Arjun, Pipal, Neem, etc
		Shrubs	210	Duranta, Hamelia ,Bouganvilia ,Amaltas,Harsingar etc
		Seasonal Flower	340	Gandha, Jinia, Verbina, Pitunia, Sunflower, Kachnar, Rose,Chameli,Kaner etc
19	April, 2020 to Mar' 2021	Trees	151	Alestonia , Silver oak, Sagwan, Sukchain, Chakresiya, Argun etc.
20	April, 2021 to Mar'2022	Trees	212	Ashoka, Silver oak, Sagwan, Arjun etc.

21	April 2022 to March 2023	Trees	210	Ashoka, Silver oak, Sagwan, Arjun etc.
22	April 2023 to March 2024	Trees	250	Neem, Tuni, Mango, Jamun, Arjun, Pipal, ,Shisham etc.

PHOTOGRAPHS OF EXISTING PLANTATION

Plantation in the Plant Area



Plantation in front of packing plant

ULTRATECH CEMENT LTD. BAGHERI 174101 Baghera Cement Works

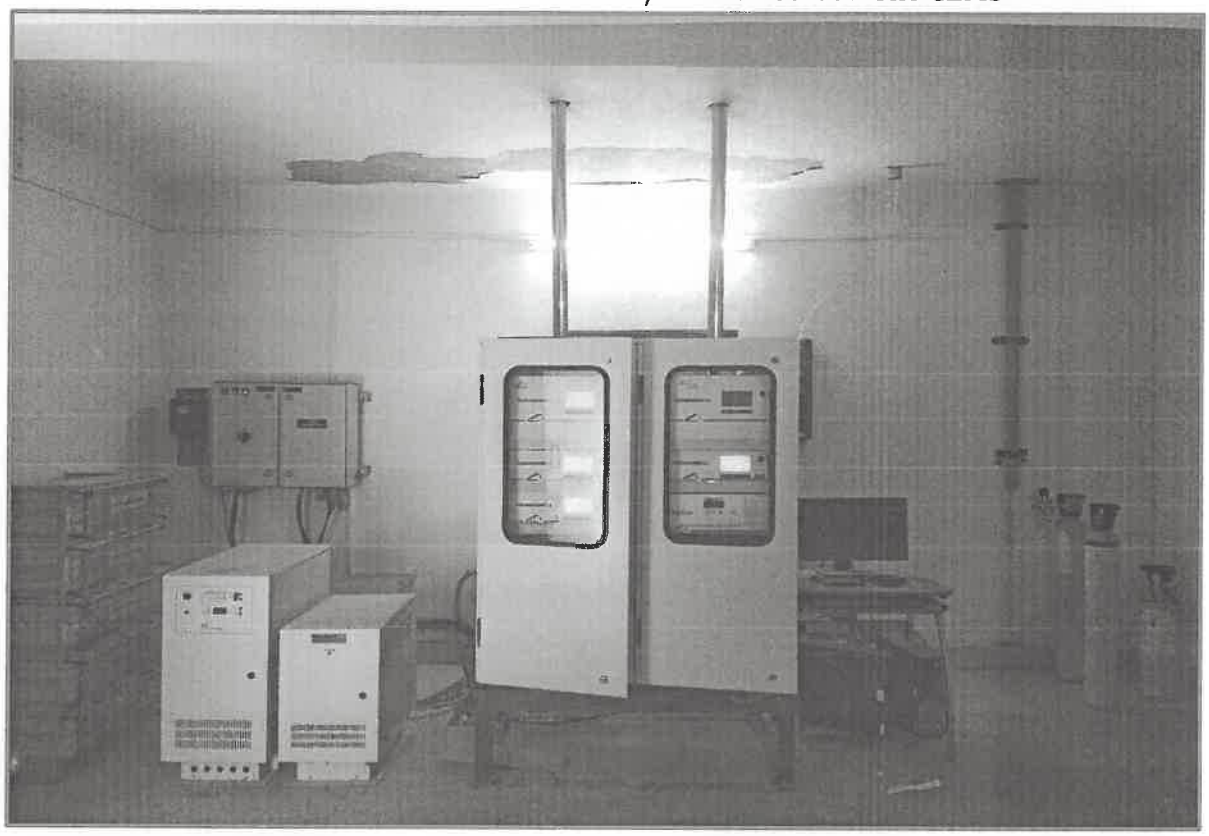
Plantation along the Plant boundary wall

Plantation in the Company Camp area

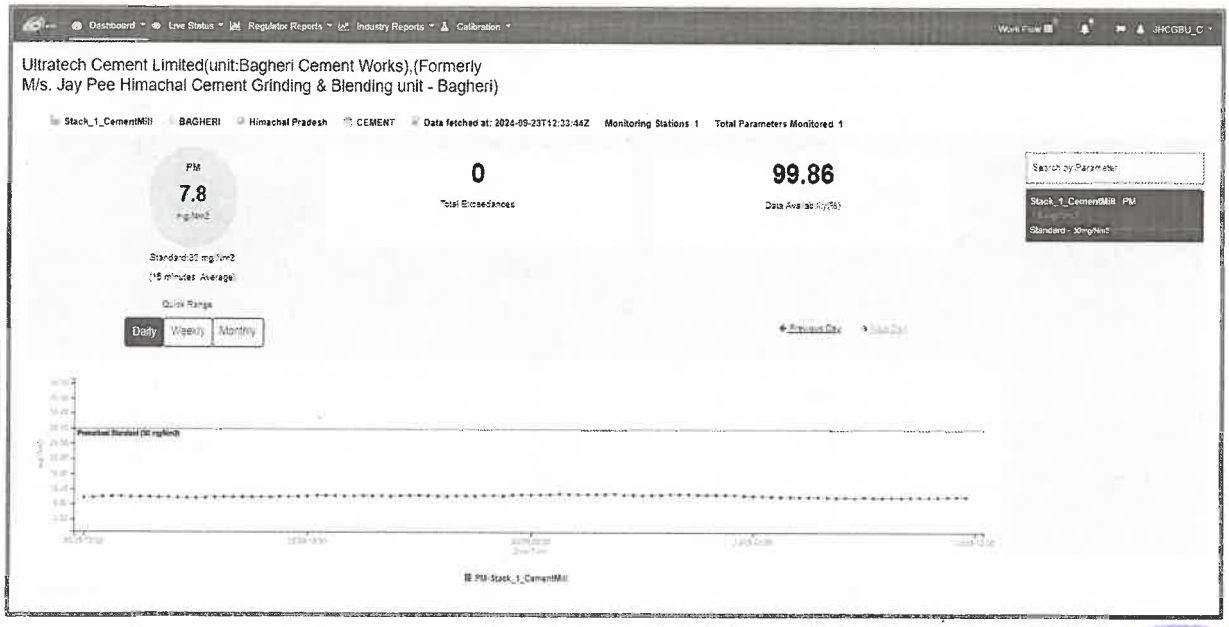
ULTRATECH CEMENT LTD.
BAGHERI
174101
Bagheri

5. Continuous Stack/Ambient Air Quality Monitoring Station (CEMS/CAAQMS):

Online real time Continuous Ambient Air Quality Monitoring Station (CAAQMS) have been installed and monitoring data being transmitted to HPSPCB server and online real time Stack emission data is transmitted to CPCB/HPSPCB server. The CEMS



Photograph of CAAQMS



Photograph of CEMS data transferring to the CPCB server

ULTRATECH CEMENT LTD. BAGHERI 174101 Bagheri Cement Works

Display board at main gate for showing real time Stack Data

6. Scheduled maintenance and monitoring of Pollution Control Devices

Scheduled maintenance and monitoring of all Air Pollution Control Device's (APCD'S) like Bag Filters and Bag House are being regularly undertaken to ensure their efficient operations in order to keep emissions level within the prescribed limit.

The lists of major Pollution Control Devices installed are as under:

A. Bag House

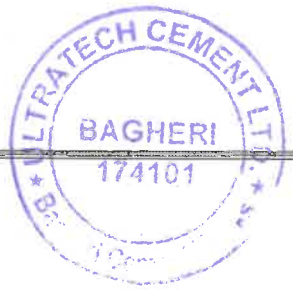
Sr. No.	Pollution Control Devices attached with	Pollution Control Devices installed	Capacity m3/hr
1	Cement Mill	Bag House	480000

B. Bag filters installed at various transfer points:

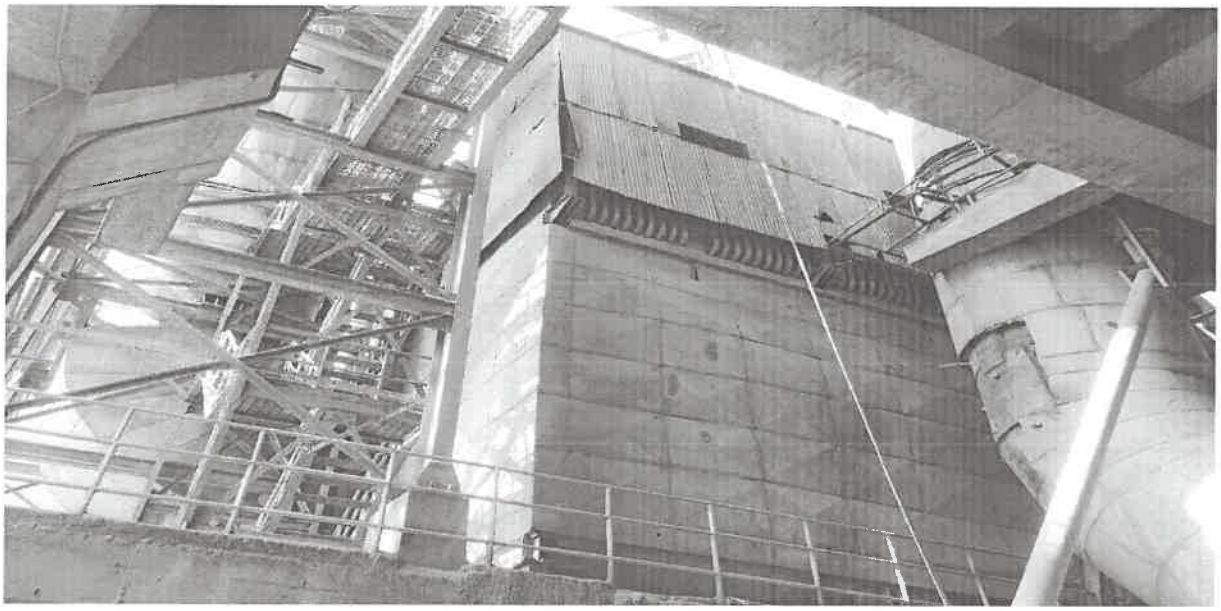
SL. NO.	Bag Filter No.	LOCATION	Capacity m3/hr
MATERIAL HANDLING AREA			
1	K12FN1	F/A Truck Trip HOPPER TOP	18000
2	K12FN2	F/A Truck Trip HOPPER TOP	18000
3	K12FN3	F/A Truck Trip HOPPER TOP	18000

4	K12FN4	F/A Truck Trip HOPPER TOP	18000
5	K12FNH	Course F/A SILO-01 TOP	7500
6	K12FNI	Raw F/A SILO-01 TOP	7500
7	K12FNJ	Raw F/A SILO-01 TOP	7500
8	K12FNK	OPC SILO-02 TOP	7500
9	K12FNL	OPC SILO-02 TOP	7500
10	K12FNM	FFA SILO-02 TOP	7500
MATERIAL HANDLING AREA- GRINDING UNIT			
11	513FN1	Clinker Truck Trip Hopper Top	18000
12	513FN2	Clinker Truck Trip Hopper Top	18000
13	K32FN1	Clinker Truck Trip HOPPER TOP	18000
14	K32FN2	Clinker Truck Trip HOPPER TOP	18000
15	K32FN5	Gyp.Belt Trans.Point	6325
16	513FN6	Clinker Dump Hopper Bottom	5500
17	513FN3	Clinker Silo Top	7000
18	513FN4	Clinker Silo Disc DBC to Belt	10000
19	513FN5	Clinker belt TR Pt. top	8050
20	K32FN3	Gypsum belt Trans Pt. top	10000
CEMENT GRINDING AREA			
21	521FN2	Belt feed to Mill Hop. TOP	10000
22	521FN3	W.F. discharge & Elev. Hop. TOP	10000
23	521FNB	RP FEED REJECT BUILDG TOP	8050
24	521FNA	RP FEED REJECT BUILDING	8000

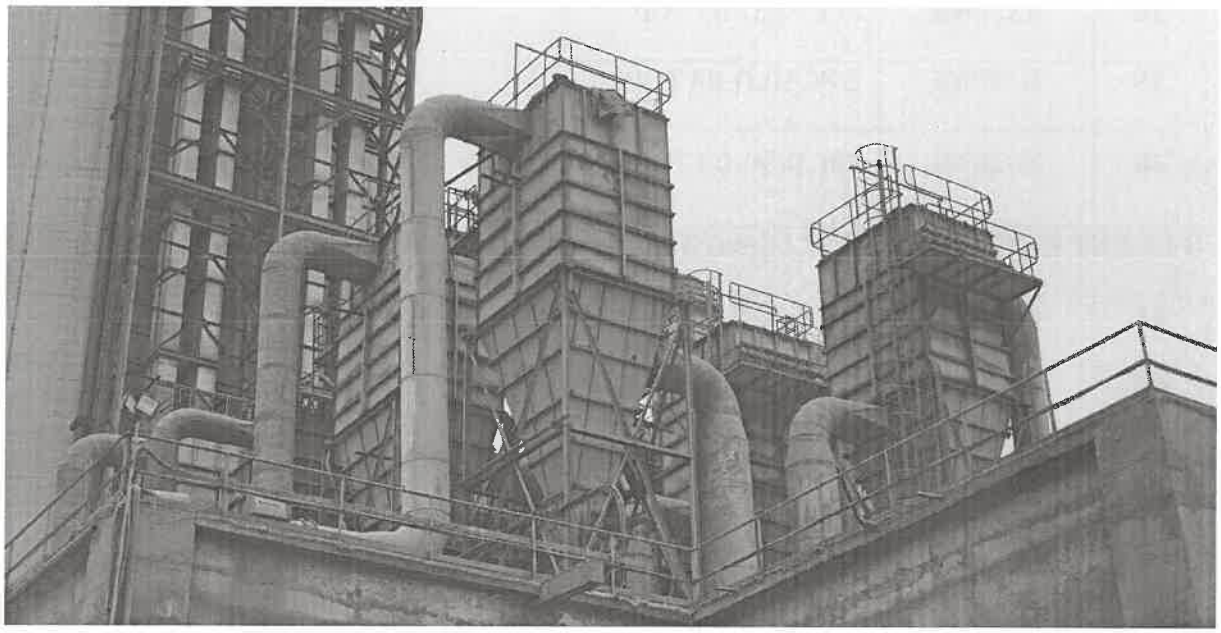
25	521FN4	ROLL PRESS Venting	45000
26	521FN6	Mill Venting B.F.	45000
27	521FN7	BAG HOUSE DISCHARGE	10000
28	521FN8	571BE1 Venting SKS Top	10000
29	241 FN1	Course F/A Bin Top	7500
F/A CLASSIFIER & CEMENT BLENDING AREA			
30	K42FN1	SILO 1 Extn RFA Bin TOP	2000
31	K42FN2	Raw F/A feed to Classifier	5500
32	K42FND	F/A CLASSIFIER BAG HOUSE	176000
33	K42FN3	CFA O/P Classifier Buildg.	10000
34	K42FN4	FFA O/P Classifier Buildg.	10000
35	K22FN5	SILO 1,EXTN BIN CFA K22CB1	3650
36	K32FN8	SILO 2,EXTN BIN FFA K32CB1	7500
37	K32FN9	SILO 2,EXTN BIN OPC K32CB2	3650
38	K32FNH	PPC SILO-03 TOP	8050
39	K32FNF	PPC SILO-03 TOP	8050
40	K32FNG	PPC SILO-03 TOP	8050
CEMENT EXTRACTION & PACKING AREA			
41	612FN1	SILO3,EXTN BIN TOP 612CB1	3650
42	612FN2	SILO3,EXTN BIN TOP 612CB2	3650
43	612FN3	SILO3, BULK LOADING SPOUT	3000
44	612FN8	SILO3,EXTN BIN TOP 612CB3	3650
45	642FN3	PACKER 1 TOP FLOOR	30000



46	642FN6	PACKER 2 TOP FLOOR	30000
47	642FN9	PACKER 3 TOP FLOOR	24000
48	642FNC	PACKER 4 TOP FLOOR	24000
49	L31FN1	Coal feeding to HAG	8400



Photographs of Bag House Connected with Cement Mill



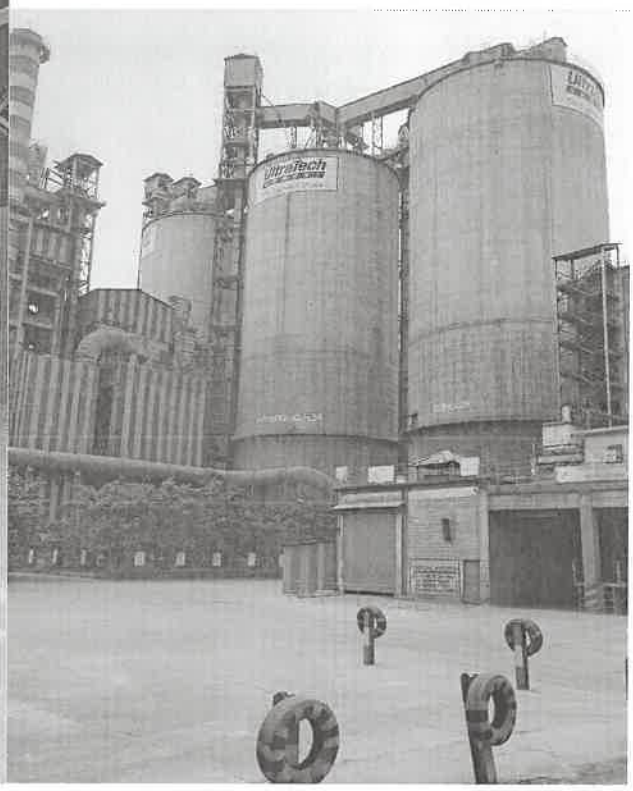
Bag Filters at Truck Tippler

7. Good House keeping

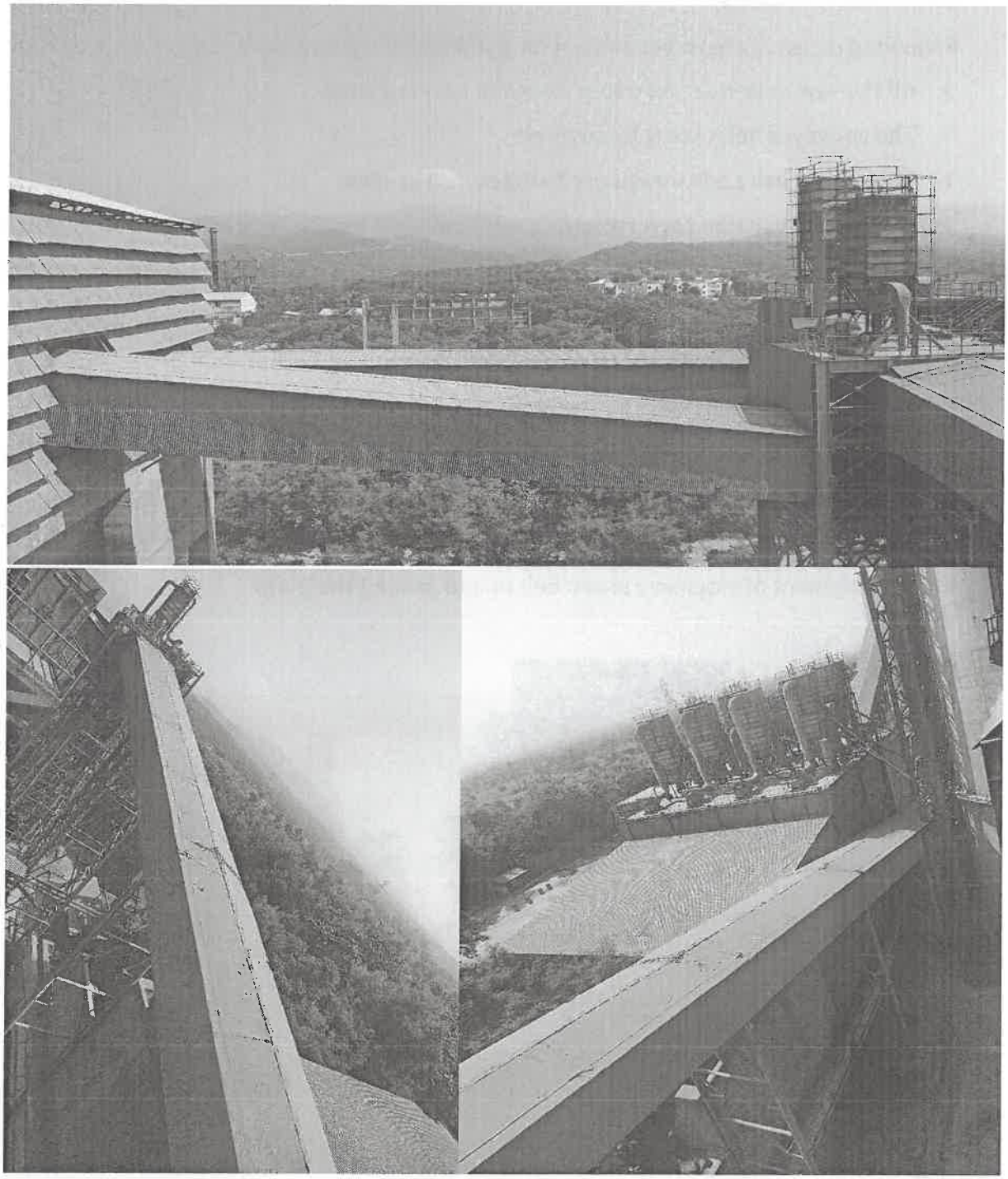
Following measures have been taken for good housekeeping inside and outside of Plant:-

- All the raw materials are being stored in covered yard.
- The conveyor belts are fully covered.
- Clinker, Fly ash and Cement are being stored in silos.
- Mechanical vacuum road sweeping machine used for the road sweeping, resulting in the reduction of fugitive emission from the manual sweeping. All the swept material is being reused in the cement process.
- Water sprinkling for dust suppression on the road and other dust generation points in and around the plant is being done.
- All the kacha roads of plant and colony have been concreted as well as plantation has been done along the road side.
- Only covered trucks/Bulker is allowed to carry fly ash.
- Development of extensive green belt in and around the plant.

Mechanical Sweeping Machine



Closed Silo for storage of Cement/Clinker/Fly ash



Photographs of conveyor Belt

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8-Energy Conservation:

Conservation of Energy & Energy Conservation Measures

A. Conservation of Energy:

1	High Volume and Low-Pressure compressor to be installed for Flyash Unloading. 30 KW/hr	July-24
2	Optimisation of lower rating 45 KW compressor instead of 90 KW compressor.	March-22
3	Replace FTL and HPSV lamps with LED lamps	Dec-21
4	Bag Filter Purging pipe & union joint replaced with flange type for bag filters of packing plant-04 nos	Oct-20
5	Optimization of single roots blower for silo compartment as well as bin.	Nov-20
6	Old conventional fan replacement with Energy saving Ceiling Fan	July-21
7	Installation of Occupancy Sensor 05 nos in Load Centre	March-21
8	Change in Cooling Tower Fan Interlock temperature based upon the weather conditions	March-22
9	To arrest air leakages upto 10 % by optimizing maintenance services	March-23
10	Diversion of mill vent bag filter discharge to product Silo in PPC Mode	Under progress
11	75 KW Screw Compressor installed by replacing of 90 KW Reciprocating Compressor. 15 KW saving per hour	Dec-23
12	RP roller Replacement with compound cast Roller	July-22

PART – H

ADDITONAL MEASURES / INVESTMENT PROPOSALS FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT POLLUTION, PREVENTION OF POLLUTION.

Additional measures being taken for prevention of Pollution are as follows:

1. Planning of extensive green belt development in the additional areas in and around the plant and along the plant boundary.
2. Scheduled maintenance and monitoring of all Air Pollution Control Device's (APCD'S) like Bag Filters and Bag House are being regularly undertaken to ensure their efficient operations in order to keep emissions level within the prescribed limit.
3. Bag filters technical audit is being done every month.
4. Regular sprinkling and spraying of water is being done through sprinklers and water tanker to suppress fugitive dust.
5. Repairing of internal road inside the plant to reduce fugitive dust emission.
6. The STP treated water is being reused in horticulture, green belt development and dust suppression & STP sludge is being used as manure for Green Belt Development.
7. Awareness programs like plantation activities, Slogan competition, Extempore Speech competition was organized for children for awareness on environment protection/ water conservation at our Vocational training Centre on 5th June (World Environment Day).

EXPENDITURE ON VARIOUS ENVIRONMENTAL ACTIVITIES

Sr. No.	Environmental Activities	Cost (Rs. Lacs)
		Recurring Expenses Year (2023-2024)
1.	Expenditure on Environment (pollution control and environmental lab testing expenses, STP etc)	22.884
2.	Running cost of APCD including power cost.	11.708
3.	Plantation/Green Belt Development	27.414
4.	Occupational Health (Dispensary)	35.128
5.	Corporate Social Responsibility (CSR)	27.019
Total Expenditure		**124.153**

ULTRATECH CEMENT LTD. BAGHERI 174101 Bagheri Cement Works

ULTRATECH CEMENT LIMITED, UNIT: BAGHERI CEMENT WORKS

AMBIENT AIR QUALITY MONITORING REPORT

YEARLY REPORT(APRIL'2023 TO MARCH'2024)

LOCATION: 1 NEAR TOWNSHIP				
PARTICULARS	**PM10µg/m³**	**PM 2.5µg/m³**	**SO_2 µg/m³**	**NO_X µg/m³**
Minimum	38.57	25.47	1.97	10.09
Maximum	79.35	59.87	12.56	32
Average	58.37	38.14	6.78	18.26
LOCATION 2: NEAR DEHNI VILLAGE				
Minimum	26.41	24.09	1.13	9.23
Maximum	76.67	58.17	11.59	31.3
Average	59.87	38.77	7.18	18.02
LOCATION 3: NEAR PADIYANA VILLAGE				
Minimum	42.86	21.37	2.85	11.55
Maximum	78.51	53.46	12.78	30.1
Average	59.7	41.98	7.57	18.11

ULTRATECH CEMENT LTD. BAGHERI 174101

ULTRATECH CEMENT LIMITED, UNIT: BAGHERI CEMENT WORKS

STACK MONITORING REPORT

YEARLY REPORT (APRIL, 2023 To MARCH, 2024)

PARTICULARS	stack gas Temp. (°K)	Stack gases velocity (m/sec)	Dust Conc. (mg/Nm^3)
Minimum	248	4.45	8.5
Maximum	359	5.87	19
Average	345.96	5.07	13.93

CSR Activities 2023-24

CSR Activities 2023-24					
S.No.	Allocation of CSR Budget-Initiatives	FY'23-24 Budget (Rs. In Lakh)	Expenses upto Marc 24 (YTD)	PILLARS	Beneficiaries
1	Repair of Anganbadi in Tikri Village	1.15	1.15	Education	120
2	Gym Equipment For Childern Park Pandiyana	1.2	1.17		500
3	Fabrication Of Rain Shelter At Pandiyana Bus Stand	1.15	1.06		350
4	Key Borad & Mouse Purchased For CSR Activity	0.4	0.36		280
5	CCTV Camera for Govt. School Bagheri	0.1	0.06		350
6	Support To Printing of School Magazine	0.2	0.13		140

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7	Instructor fee charges for stitching & tailoring centre- Gurnoor Silai kendra. Donated sewing machine, repairs of sewing machines	1.72	1.54	**Sustainable Livelihood**	60
8	CSR Tin Shed Exp Computer Stiching Exp	10.50	10.35	**Infra Development**	3500
9	Modification Work Anganwadi at Tikkeri Village				
10	Kitchen Shed at Tikeri Village				
11	CSR Exp for Bagheri village (Dead Body Freezer)				
12	CSR Tile fix at postoffice & Veterinary Hospital bagheri				
13	CSR Renovation of Anganwadi at Bagheri Village				
14	CSR Const. of Kitchen Shed for Bagheri Village				
15	Fixing Of Concrete Bench				
16	Pur. Abstract Of Stair Step				
17	4 No Street Light Police Post Bagheri				
18	Writing & Painting Work Exp				
19	Support to Cement Bags for Civil work like retaining wall, Gaushala, Community Centre, Gaushala, Roads repairing, etc	8.9	8.86	**Infra Development**	1400
20	Financial support - Sports activities in nearby villages	2.40	2.32	**Social Empowerment**	800
Total		**27.72**	**27.0**		**7500**

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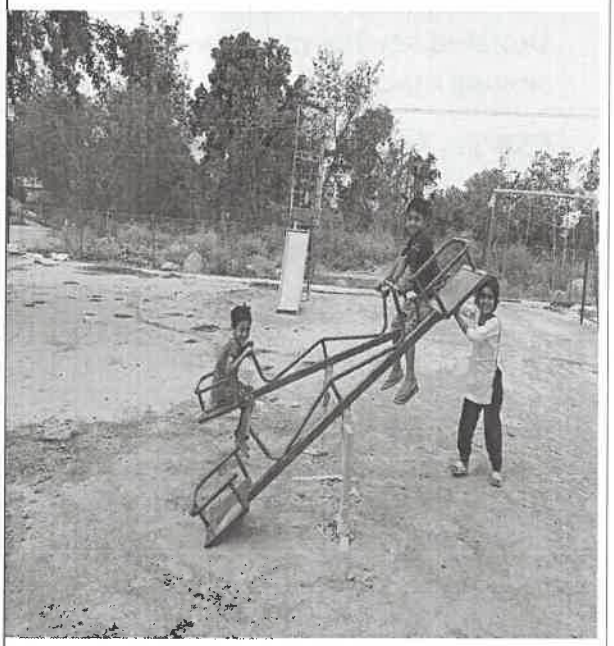
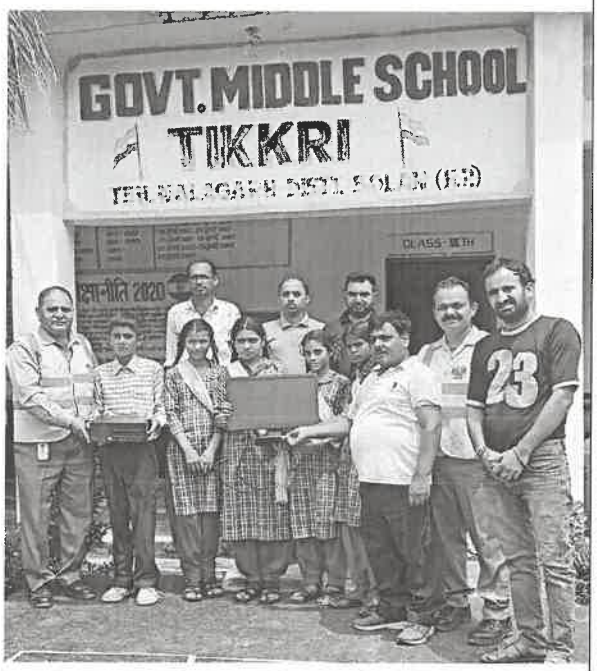
Glimpses of CSR & Employee Engagement Activity

Stitching & Computer Course Completion Certificate Provided to women along with blankets

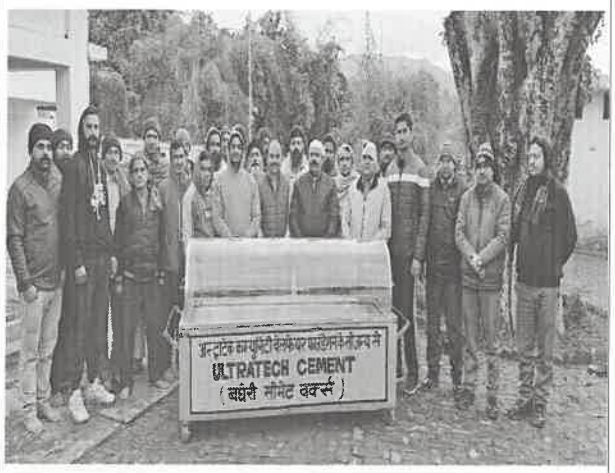


Infrastructure development at Children Park Pandiyana



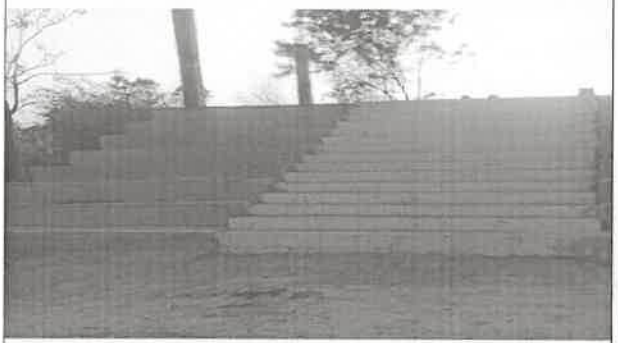
Computer Provided to Near By Schools

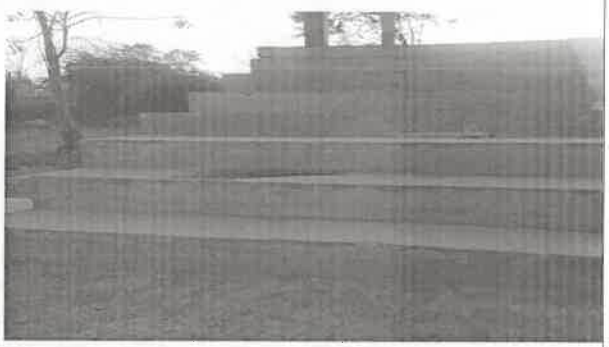
Infrastructure developed of Skill development Centre



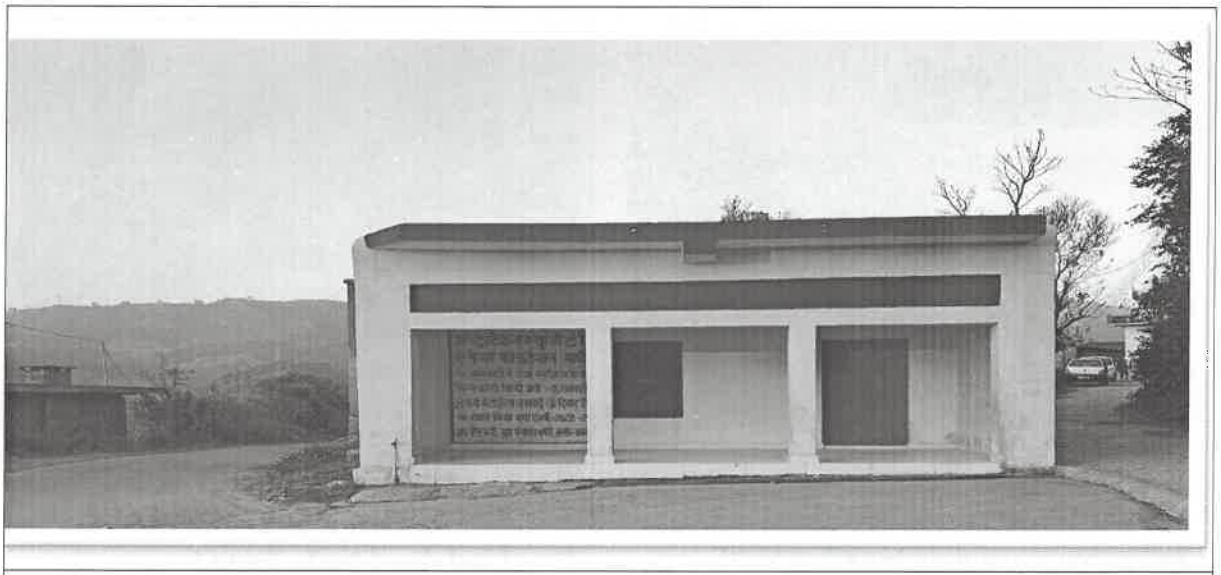
Provided dead body Deep freezer for preservation

Rural Road Repaired





Stadium Development at Kuladi Village



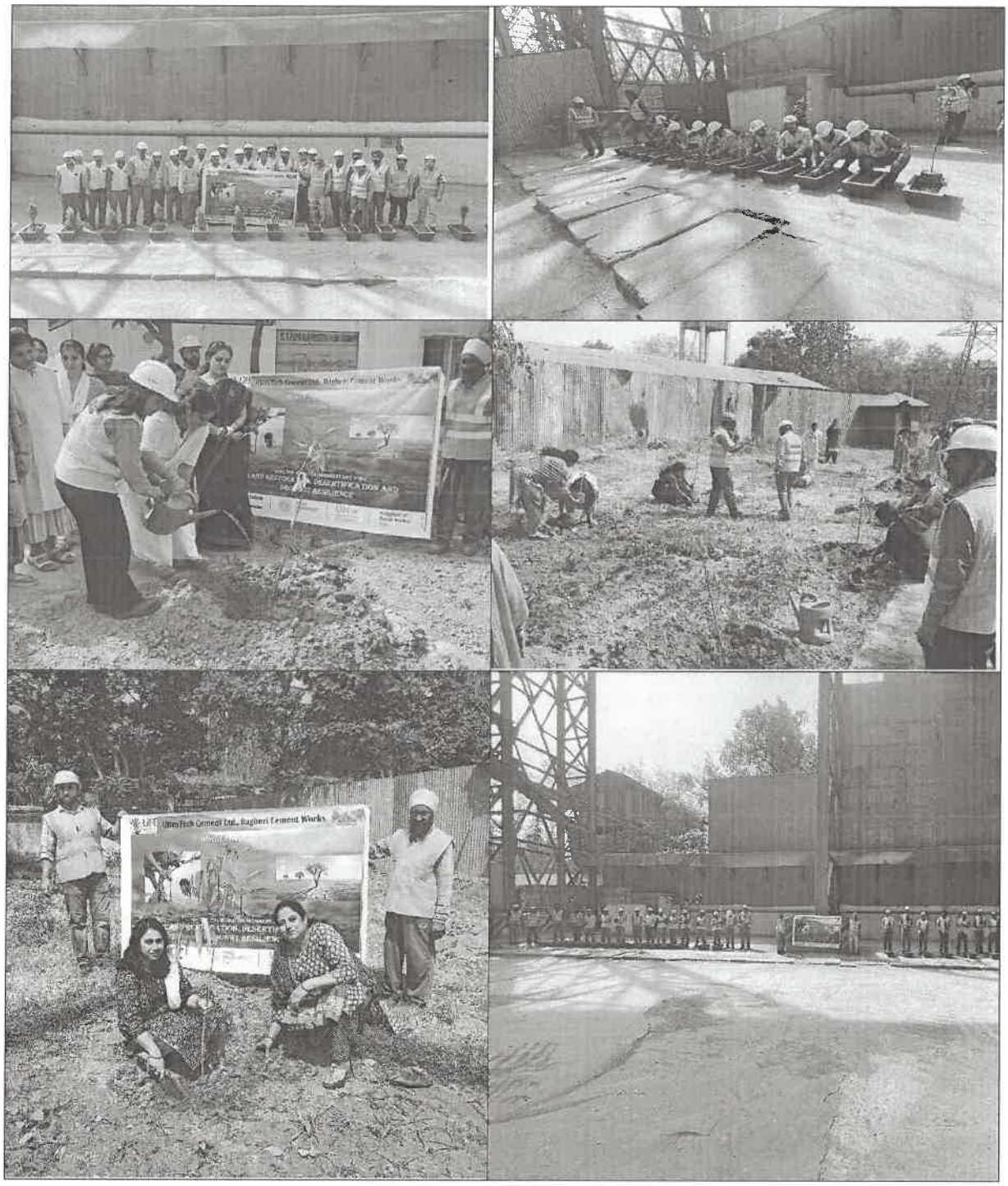
Repairing Work Carried Of Aanganvadi at Tikkri Village

Glimpses of World Environment Day 2024 Celebration

- **Environmental Awareness program conducted for the Employees/Contractor's Employees**

➢ **Mega Cleaning Drive conducted on the Eve of Environment Day Celebration**

- **Plantation Drive conducted on the occasion of World Environment Day Celebration**



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- **A skit performed by the employees to spread awareness about the importance of environmental protection**

- **Speech by the Unit Head about the theme and about the individuals responsibilities to protect the environment**