BHAVYA CEMENTS PRIVATE LIMITED

(A Subsidiary of Anjani Portland Cement Limited)

(An ISO 9001 : 2015 Certified Company)

CIN : U26941AP2007PTC053611, GSTIN : 37AADCB1182A1Z8

Lr.No.BCPL/ENV/ES/2022-23
Dt. 26th September, 2022

To
The Environmental Engineer,
Regional office,
A.P Pollution Control Board,
D.No:135-43, 1st floor
Lucky Complex, JKC College Road,
Guntur – 522007.

Respected Sir,

Sub: Submission of Environmental Statement for the Cement Plant & Mines for the financial year ending March 31st 2022– reg.

We are here with submitting, the environmental statements (three copies) for the cement plant & Limestone Mines, for the Bhavya Cements Private Limited, Tangeda, for the financial year 2021 – 2022 for your kind consideration.

Thanking you,

Yours faithfully,
For Bhavya Cements Private Limited,

SHAIK BABA FAKRUDDIN
Sr.G.M (Works)

CC: The Environmental Engineer
A.P.Pollution Control Board,
Zonal Office,
Kanaka Durga Officer's Colony,
Vijayawada.

The Member Secretary
A.P Pollution Control Board
Near Sunrise Hospital,
Pushpa Hotel Centre,
Vijayawada.

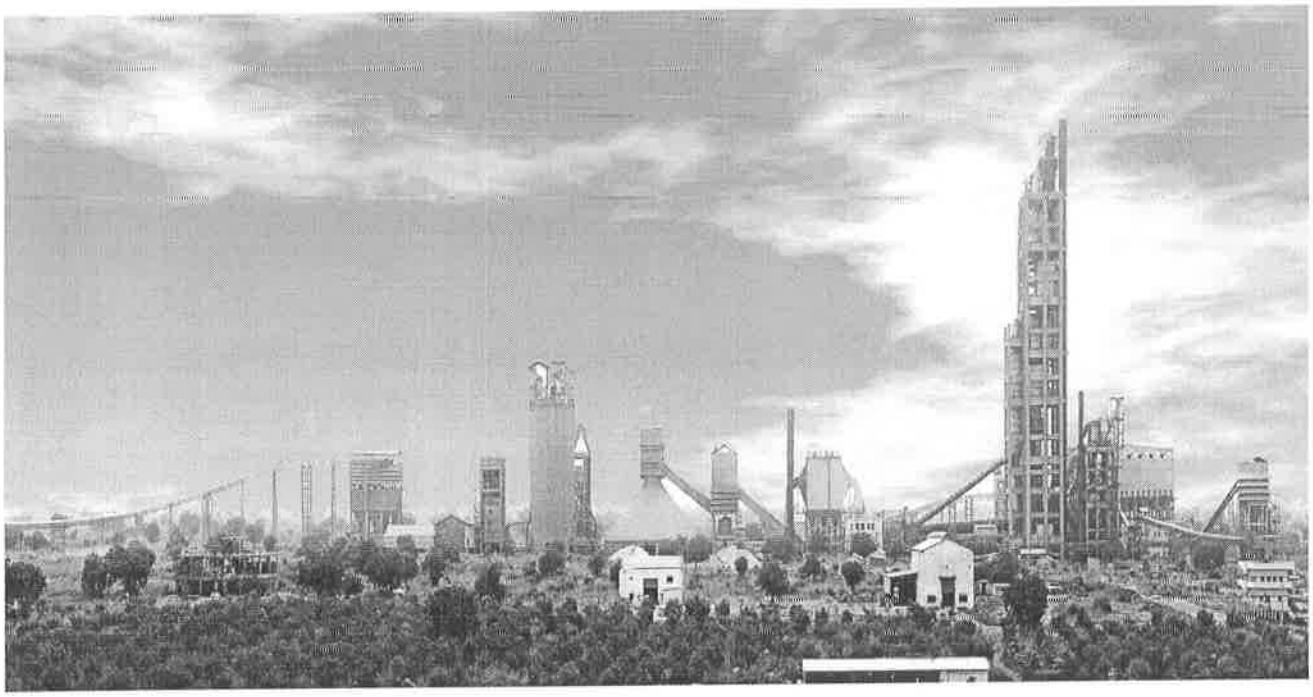
Office of the Environmental Engineer A.P. Pollution Control Board
Inv. No:
Dt. 27/09/2022
GUNTUR

Registered Office & Works :
Tangeda (Village),
Dachepally (Mandal), Guntur District,
Andhra Pradesh - 522 414
E-mail : hrworks@bhavyacements.in

Corporate Office : Unit No. C2, 2nd Floor,
Quena Square, Taj Deccan Road,
Erramanzil, Hyderabad, Telangana - 500 082
Phone : 040-23553864/65
Email : info@bhavyacements.in

PREPARATION OF ENVIRONMENTAL STATEMENT

(For the Financial year ending March 31st 2022)



BHAVYA CEMENTS PRIVATE LIMITED

(A Subsidiary of Anjani Portland Cement Limited)

Tangeda (Village)

Dachepalli (Mandal)

Palnadu (Dist) – 522 414.

Plant Introduction:

BCPL has set up Cement unit at Tangeda (village), Dachepalli (Mandal), Palnadu district of Andhra Pradesh in the year 2010 with the commissioning of a dry process kiln line of 1.4 MTPA capacity. The total land of cement plant and colony is about 40 ha. The captive limestone mine of BCPL is extending over an area of 421.89 ha falling in the jurisdiction of Tangeda village of Dachepalli Mandal, Palnadu District, A.P to meet the requirement of the cement plant.

RAW MATERIALS AND PRODUCTS:

The raw material used for producing the product of Cement are Limestone, Laterite, Gypsum, Coal, Fly ash ETC.,

Cement Manufacturing Process:

1. Mining:

The cement manufacturing process starts from the mining of limestone, which is the main raw material for making cement. Limestone is excavated from open cast mines after drilling and blasting and loaded on to dumpers which transport the material and unload into hoppers of the limestone crushers.

2. Crushing Stacking & Reclaiming of Limestone

The LS Crushers crush the limestone to minus 70 mm size and discharge the material onto a belt conveyor which takes it to the stacker. The material is stacked in longitudinal stockpiles in closed shed. Limestone is extracted transversely from the stockpiles by the reclaimers and conveyed to the Raw Mill hoppers for grinding of raw meal.

3. Crushing of Coal

The process of making cement clinker requires heat. Coal is used as the fuel for providing heat. Raw Coal received from the collieries is stored in a coal yard. Raw Coal is dropped

on a belt conveyor from a hopper and is taken to and crushed in a crusher. Crushed coal taken to the coal mill hoppers for grinding of fine coal.

4. Raw Meal Drying /Grinding & Homogenisation

Reclaimed limestone along with some laterite and iron ore stored in their respective hoppers is fed to the Raw mill for fine grinding. The hot gases coming from the clinkerisation section are used in the raw mill for drying and transport of the ground raw meal to the Bag House, where it is collected and then stored and homogenized in the concrete silo. Raw Meal extracted from the silo (now called kiln feed) is fed to the top of the Pre-Heater for Pyro-Processing.

5. Clinkerisation

Cement Clinker is made by Pyro-Processing of kiln feed in the Pre-Heater and the rotary kiln. Fine coal is fired as fuel to provide the necessary heat in the kiln and the Pre-calciner located at the bottom of the 6 stage preheater.Hot clinker discharged from the kiln drops on the grate cooler and gets cooled. The cooler discharges the clinker onto the pan/bucket conveyor and it is transported to the clinker silos. The clinker is taken from the silo to the ball mill hoppers for cement grinding.

6. Cement Grinding & Storage

Clinker and Gypsum (for OPC) and also Pozzolana (for PPC) are extracted from their respective hoppers and fed to the Cement Mills. These Ball Mills grind the feed to a fine powder and the mill discharge is fed to an elevator, which takes the material to a separator, which separates fine product and the coarse. The latter is sent to the mill inlet for regrinding and the fine product is stored in concrete silos.

7. Packing

Cement extracted from silos is conveyed to the automatic electronic packers where it is packed in 50 Kgs.polythene bags and dispatched in trucks and wagons. Facility for bulk loading of lose cement in to tankers also.

FORM - V

(See Rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 31st MARCH 2022

PART - A

1. Name and address of the owner/ occupier of the industry operation or process.	:	**Sri.S.BABA FAKRUDDIN** **Sr.GM (Works) - Plant Head** M/s Bhavya Cements Private Limited, Tangeda, Dachepalli- 522414, Palnadu (Dt), A.P
2. Production Capaity	:	Clinker - 3000 TPD Cement (OPC & PPC) - 4200 TPD Limestone - 14,85,000 TPA
3. Year of Establishment	:	2010
4. Date of the last environment audit report submitted.	:	July 2021

PART - B

Water and Raw Material Consumption

Water consumption m^3/Day

Process	:	140.0	m^3/day
Cooling	:		m^3/day
Domestic	:	80.0	m^3/day
Total		**220.0**	m^3/day

Name of the product (s)	Water consumption per unit of products (m^3/MT of cement)	
	During the previous financial year 2020-21	During the current financial year 2021-22
Cement	0.031	0.037

Raw material consumption

Name of the raw material	Consumption of raw material	
	During the previous financial year 2020-21	During the current financial year 2021-22
1. Limestone(from captive mines)	1188730.00 MT	1147604.00 MT
2. Additives		
a) Laterite	78295.00 MT	71368.00 MT
b) Iron Ore	0.00 MT	0.00 MT
3. Fuels (For Kiln)		
a) Indigenous Coal	17801.96 MT	31906.51 MT
b) Imported Coal	128593.57 MT	124018.99 MT
c) Petcoke	0.00 MT	0.00 MT
4. Alternate Fuel		
a) Spent Carbon	0.00 MT	0.00 MT
b) Spent Organic Residue	0.00 MT	0.00 MT
c) ETP Sludge	0.00 MT	0.00 MT
5. Fly ash	72184.00 MT	83933.00 MT
6. Gypsum	34626.00 MT	42534.00 MT
7. ANFO	146.95 MT	121.70 MT
8. Slurry Explosives	32.60 MT	31.64 MT
9. Detonating Cord (Ideal Power Cord-1	21725.00 Mtr	11425.00 Mtr
10. Electrical EOD	953.00 No's	527.00 No's
11. Non-Ele Detonators	3793.00 No's	3612.00 No's

Note: Month Wise Raw Material Consumption is given in Annexure-I

PART- C

(Parameter as specified in the consent issued)

Pollution Type	Pollution Board Norms	Quantity of Pollution Generation	% of Variation from prescribed Standards with reasons	Remarks
(a) Water	**No process effluent generation from cement manufacturing.**			
(b) Air	**Both stack & Ambient Air emissions are with in the limits and online connected**			

Details of monthwise ambient air quality monitoring, Stack Emissions & Noise levels are being carried out by the Third Party for the year 2021-22 :

i. AAQM	PM_{10}	$PM_{2.5}$	SO_2	No_x
Norm	100	60	80	80
a. Plant Main Gate	64.56	35.03	13.67	20.31
b. Near Laboratory	59.39	35.52	15.05	23.68
c. Near Guest House	49.98	26.55	13.74	21.90
d. Near School Gate	50.60	27.40	12.91	20.00
e. Tangeda Village	52.75	29.39	13.22	18.61
f. Mines Office	55.33	26.58	11.97	14.80
g. Haulage Road	61.50	27.45	13.62	16.66
h. Crusher Area	58.20	24.95	13.04	15.30
i. Near View Point	56.51	24.99	12.09	14.41
j. Chennayyapalem Village	46.54	20.57	9.88	13.97

Note: All values are mentioned as $\mu g/m^3$

ii. Stacks	**Norm**	
	30 mg/Nm3	
a. Raw Mill/ Kiln- Stack	17.81	mg/Nm^3
b. Coal Mill- Stack	18.69	mg/Nm^3
c. Cooler ESP- Stack	24.17	mg/Nm^3
d. Cement mill -1 Stack	19.98	mg/Nm^3
e. Cement mill -2 Stack	19.52	mg/Nm^3

(c) Noise	**Day Time, dB(A)**	**Night Time, dB(A)**
i. Plant Main Gate	55.30	46
ii. Near Lab	64.54	57.62
iii.Near Guest House	47.36	39.27
iv.Near Colony	54.31	48.3
v.Tangeda Village	63.43	56.80

Details of month wise stack monitoring carried out in the year 2021-22 are enclosed as Annexure - IIA.

Details of month wise AAQ monitoring carried out in the year 2021-22 are enclosed as Annexure - IIB.

Details of month wise Noise levels carried out in the year 2021-22 are enclosed as Annexure - IIC.

PART - D
Hazardous Wastes

(As specified under Hazardous Wastes/ Management, Handling and Trans boundary Rules, 2016)

Hazardous Wastes	Total Quantity (MT)			
	During the previous financial year 2020-21		During the current financial year 2021-22	
Waste oil	445	LPA	0	LPA
Waste grease	172	kgs/Annum	0	kgs/Annum

Note: No hazardous waste generated within the process

* Copy of Form - 4 (submitted to APPCB) - Hazardous Waste generation / receipts and consumption / disposal details in the year 2021-22 is enclosed as Annexure - III.

PART - E
Solid Wastes

	During previous financial year 2020-21	During Current financial year 2021-22
(a) From process (b) From pollution control facility (c) Quantity recycled or re-utilized	No solid waste generated	No solid waste generated.

* Dust collected from cement plant pollution control equipments is being totally recycled in the respective circuits.

Top soil is being used for back filling at low lying areas, haulage Roads and afforestation.

PART - F

(Please specify the characteristics in terms of concentration and quantum)

There is neither hazardous nor solid waste generated from the process.

No waste oil is generated from gear boxes from plant.

The Intermediate products, raw materials and finished product collected in various pollution control equipments are being recycled into the process

Copy of Form - 4 (submitted to APPCB) - Hazardous Waste generation / receipts and consumption / disposal details in the year 2021-22 is enclosed as Annexure - III.

Part G

Impact of the pollution control measures on concentration of natural resources and consequently on the cost of production

The emission levels at various stacks and the ambient air quality is being maintaining well below the statutatory limits. The cost incurred for replace of bags is **Rs.3,89,000/-**. The cost of power consumed for operation of various pollution control equipment attached to cement plant process equipment in the financial year 2021-22 is **Rs. 570 lakh**. Drip Irrigation System was installed for the green belt developement which cost about **Rs.1,00,000/-**. **Total environmental protection expenditure made in the financial year 2021-22 is Rs. 575 lakh ie**, nearly Rs.59.29 / ton of cement. The expenditure details Environment Protection covering various measures carried out in the financial year 2021-22 are enclosed as Annexure - IV

Part H

Additional investment proposal for environmental protection including abatement of pollution

An amount of Rs.**2,28,964/-** is spent on regular monthly monitoring per annum. Packing of cement is being done with electronic packers to control fugitive emissions. Coal and additives are handled with stackers & reclaimers with closed sheds to control the fugitive dust while handling. Silencers are fitted to Cooler fans to reduce the noise levels. All Concrete roads and Road sweeper is being used for sweeping all major roads of cement plant. To monitor ambient air quality three numbers of Online AAQ stations are installed and connected to both APPCB & CPCB. Online Stack Emissions for five major Stacks have been installed. Drip Irrigation System Installed for Watering the Plants. Sewage Treatment Plant installed and treated water is being used for

Part I

Any other particulars in respect of environment protection and abatement of pollution.

BCPL is conducting regular meeting for reviewing and taking up various improvements in the quality of the Safety and Environment. Conductlng regular environment monitoring to compile the conditions of APPCB. Implemented Quality Management System ISO 9001, ISO 14001 and ISO 45001 got certification. Medical camps are being conducted at nearby villages on regular basis and medicines are being distributed on free of cost. Amount of 61.93 lakhs spend against Socio Economic activities for the current financial year at the surrounding villages by carrying out various activities like Medical, Education, Welfare, and Awareness programmes.

Annexure-I

Raw Materials Consumption & Clinker/Cement Production for the FY 2021-2022									
Month	Raw Materials Consumption, Tonns							Production, Tonns	
	Limestone	Laterite	Indian Coal	Imported Coal	Total Coal	Gypsum	Fly Ash	Clinker	Cement
Apr-21	93288	7024	0.00	12215.00	12215.00	3531	8542	66392	76352
May-21	89652	6747	0.00	11544.00	11544.00	3654	8386	65199	85908
Jun-21	105339	7932	1188.23	12437.77	13626.00	3251	6191	75574	89026
Jul-21	111759	7781	1778.83	13041.05	14819.88	4158	8180	79177	83877
Aug-21	53018	2634	936.80	6463.20	7400.00	3739	7250	38026	74768
Sep-21	95714	6023	2217.80	10750.96	12968.76	4104	6328	67195	82083
Oct-21	109359	7793	3210.10	10972.71	14182.81	3694	7999	77848	82193
Nov-21	86874	6136	3665.00	7398.27	11063.27	2165	4744	62508	54133
Dec-21	100162	6675	4184.15	10805.20	14989.34	3384	5192	73349	77731
Jan-22	73797	2317	391.80	10935.70	11327.50	3607	5732	52547	77352
Feb-22	110853	5272	6815.08	8619.40	15434.48	3813	6589	77959	90099
Mar-22	117789	5034	7518.73	8835.75	16354.48	3434	8800	82546	95137
Total	**1147604**	**71368**	**31906.52**	**124019.00**	**155925.51**	**42534**	**83933**	**818320**	**968659**

Annexure-I

Explosives Consumption 2021-2022													
Month	ANFO in Kgs	Slurry Explosives						Detonating Cord	Electrical Detonators	Non-Ele Detonators			
		Ideal Power 90 & Kelvex 220	Kel-800	Kel-600	Kel Extra	sp gold	sp	Ideal Power Cord-10	ED in No's	Exel-5	Exel-16	Exel-10	Exel-15
Apr-21	11350	55	925	1900	125	0	0	2050	83	24	0	18	314
May-21	10200	11	850	1600	100	0	0	375	25	18	0	16	275
Jun-21	10600	23	1450	1075	225	0	0	825	40	20	0	25	268
Jul-21	11800	40	1075	1800	525	0	0	1450	56	18	0	14	300
Aug-21	6300	79	350	1075	275	0	0	3000	85	12	0	16	145
Sep-21	8700	20	0	0	0	950	1400	750	29	22	0	29	223
Oct-21	11400	13	0	950	200	1125	675	375	27	20	0	27	295
Nov-21	15100	4	1725	1550	0	0	0	100	22	19	137	25	216
Dec-21	7200	0	425	300	0	425	400	0	8	9	0	9	174
Jan-22	8900	17	700	1350	100	0	0	825	27	16	45	22	177
Feb-22	9850	71	925	675	200	0	1100	1025	85	19	46	24	243
Mar-22	10300	33	0	0	0	1325	1425	650	40	16	0	20	296
Total	**121700**	**366**	**8425**	**12275**	**1750**	**3825**	**5000**	**11425**	**527**	**213**	**228**	**245**	**2926**

Annexure-IIA

Stack Emissions														
Description	**Units**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**	**Oct-21**	**Nov-21**	**Dec-21**	**Jan-22**	**Feb-22**	**Mar-22**	**Avg**
Raw Mill/Kiln Stack	mg/Nm3	26	Monitoring not done due to COVID-19 third wave		19.6	16.7	17.4	17.9	16.8	15.7	15.7	13.1	19.2	**17.81**
Coal Mill Stack	mg/Nm3	21			17.2	20.6	16.5	19.5	19.7	21.8	18.7	13.3	18.6	**18.69**
Cooler ESP Stack	mg/Nm3	24			26.5	24.8	24.9	22.9	23.4	25.4	22.6	24.8	22.4	**24.17**
Cement Mill-1 Stack	mg/Nm3	19			22.6	19.5	20.6	19.5	18.6	19.5	20.4	20.7	19.4	**19.98**
Cement Mill-2 Stack	mg/Nm3	21			27.4	22.5	23.4	21.6	18.5	19.7	15.4	11.9	13.8	**19.52**

Annexure-IIB

AAQ Values

AAQ Values for the month March-2022

S.No	Location	PM_{10}	$PM_{2.5}$	SO_2	NO_X
1	Plant Main gate	72	42	15.3	25.7
2	Near Laboratory	68	47	15.7	29.6
3	Near Colony Guest House	52	34	15.4	27.7
4	School Gate (Bhavya DAV)	57	38	10.3	19.7
5	Tangeda Village	64	41	13.9	24.4

AAQ Values for the month January-2022

1	Plant Main gate	68	49	11.5	19.9
2	Near Laboratory	61	50	14.0	24.2
3	Near Colony Guest House	54	29	11.2	19.3
4	School Gate (Bhavya DAV)	48	32	11.9	21.3
5	Tangeda Village	61	47	9.4	17.6

AAQ Values for the month November-2021

1	Plant Main gate	73	51	15.0	21.3
2	Near Laboratory	64	47	15.8	26.0
3	Near Colony Guest House	59	32	11.8	20.7
4	School Gate (Bhavya DAV)	62	43	13.7	22.8
5	Tangeda Village	59	34	11.3	18.9

AAQ Values for the month September-2021

1	Plant Main gate	47	23	12.8	14.2
2	Near Laboratory	50	24	15.6	17.3
3	Near Colony Guest House	40	20	12.4	13.8
4	School Gate (Bhavya DAV)	42	21	13.2	15.2
5	Tangeda Village	39	19	10.4	12.6

AAQ Values for the month July-2021

1	Plant Main gate	51	24	12.5	14.9
2	Near Laboratory	53	25	13.2	15.8
3	Near Colony Guest House	43	22	9.8	11.2
4	School Gate (Bhavya DAV)	46	21	11.4	12.8
5	Tangeda Village	42	20	9.4	11

AAQ Values for the month May-2021

1	Plant Main gate	Monitoring not done due to COVID-19 third wave
2	Near Laboratory	
3	Near Colony Guest House	
4	School Gate (Bhavya DAV)	
5	Tangeda Village	

Note: All values are mentioned as µg/m3

AAQ Values for the month Febraury-2022

S.No	Location	PM_{10}	$PM_{2.5}$	SO_2	NO_X
1	Plant Main gate	72	21	15.2	20
2	Near Laboratory	65	16	19.6	26.9
3	Near Colony Guest House	51	22	19.3	25.2
4	School Gate (Bhavya DAV)	44	16	12.9	17.9
5	Tangeda Village	48	18	17.4	22.2

AAQ Values for the month December-2021

1	Plant Main gate	62	45	11.3	25.3
2	Near Laboratory	54	39	11.9	26.9
3	Near Colony Guest House	61	36	8.8	19.0
4	School Gate (Bhavya DAV)	53	19	10.3	21.8
5	Tangeda Village	58	22	8.5	18.7

AAQ Values for the month October-2021

1	Plant Main gate	71	44	10.1	22.8
2	Near Laboratory	55	45	10.7	24.2
3	Near Colony Guest House	49	26	17.9	37.1
4	School Gate (Bhavya DAV)	53	29	19.2	29.6
5	Tangeda Village	55	42	27.6	16.8

AAQ Values for the month August-2021

1	Plant Main gate	68	42	16.9	20.8
2	Near Laboratory	59	41	19.5	29.6
3	Near Colony Guest House	45	29	20.7	32.7
4	School Gate (Bhavya DAV)	48	31	15.3	25.4
5	Tangeda Village	52	28	15	32

AAQ Values for the month June-2021

1	Plant Main gate	Monitoring not done due to COVID-19 third wave
2	Near Laboratory	
3	Near Colony Guest House	
4	School Gate (Bhavya DAV)	
5	Tangeda Village	

AAQ Values for the month April-2021

1	Plant Main gate	61	29	16.1	18.2
2	Near Laboratory	65	31	14.5	16.4
3	Near Colony Guest House	46	25	10.1	12.2
4	School Gate (Bhavya DAV)	53	24	10.9	13.6
5	Tangeda Village	50	23	9.4	11.8

Annexure-IIB

Mines AAQ Values

AAQ Values for the month March-2022

S.No	Location	PM_{10}	$PM_{2.5}$	SO_2	NO_X
1	Mines Office	54	26	10.8	12.9
2	Haulage Road	63	25	12.9	14.2
3	Crusher Area	59	24	14.2	17.1
4	Near View Point	51	23	11.3	13.2
5	Chennayyapalem Village	40	21	8.9	10.5

AAQ Values for the month January-2022

1	Mines Office	58	28	10.8	12.3
2	Haulage Road	65	38	12.4	14.6
3	Crusher Area	57	26	13.5	15.1
4	Near View Point	54	24	10.6	12.5
5	Chennayyapalem Village	46	22	8.9	10.2

AAQ Values for the month November-2021

1	Mines Office	65	34	13.1	15.2
2	Haulage Road	72	36	14.2	16.4
3	Crusher Area	60	30	12.5	13.5
4	Near View Point	69	31	11.9	12.7
5	Chennayyapalem Village	53	26	10.5	11.8

AAQ Values for the month September-2021

1	Mines Office	50	24	11.4	12.8
2	Haulage Road	61	28	13.2	15.6
3	Crusher Area	56	26	12.8	14.3
4	Near View Point	53	25	11.6	12.4
5	Chennayyapalem Village	47	21	9.2	10.8

AAQ Values for the month July-2021

1	Mines Office	52	26	10.8	13.2
2	Haulage Road	63	30	12.4	14.6
3	Crusher Area	58	27	11.6	12.4
4	Near View Point	55	23	10.2	11.2
5	Chennayyapalem Village	49	20	8.5	10.3

AAQ Values for the month May-2021

1	Mines Office	Monitoring not done due to COVID-19 third wave
2	Haulage Road	
3	Crusher Area	
4	Near View Point	
5	Chennayyapalem Village	

Note: All values are mentioned as µg/m3

AAQ Values for the month Febraury-2022

S.No	Location	PM_{10}	$PM_{2.5}$	SO_2	NO_X
1	Mines Office	53	24	13.6	19.9
2	Haulage Road	49	17	14.4	20.7
3	Crusher Area	54	19	11.2	14.8
4	Near View Point	58	24	14.0	20.4
5	Chennayyapalem Village	47	16	12.0	25.4

AAQ Values for the month December-2021

1	Mines Office	58	26	15.0	21.9
2	Haulage Road	54	19	15.8	22.8
3	Crusher Area	59	21	12.3	16.3
4	Near View Point	64	26	15.4	22.4
5	Chennayyapalem Village	52	18	13.2	27.9

AAQ Values for the month October-2021

1	Mines Office	55	26	12.5	14.1
2	Haulage Road	67	31	14.5	17.2
3	Crusher Area	62	29	14.1	15.7
4	Near View Point	58	28	12.8	13.6
5	Chennayyapalem Village	52	23	10.1	11.9

AAQ Values for the month August-2021

1	Mines Office	56	27	11.3	12.6
2	Haulage Road	60	28	13.8	15.4
3	Crusher Area	61	26	14.1	16.2
4	Near View Point	53	25	11.9	12.8
5	Chennayyapalem Village	42	20	9.3	10.8

AAQ Values for the month June-2021

1	Mines Office	Monitoring not done due to COVID-19 third wave
2	Haulage Road	
3	Crusher Area	
4	Near View Point	
5	Chennayyapalem Village	

AAQ Values for the month April-2021

1	Mines Office	52	24	10.4	13.1
2	Haulage Road	61	23	12.5	15.2
3	Crusher Area	56	22	14.1	17.6
4	Near View Point	50	21	11.2	12.8
5	Chennayyapalem Village	38	19	8.2	10.1

Noise Levels for the month March-2022

S.No	Location	Day Time	Night Time
1	Plant Main gate	53	48.8
2	Near Lab	65.7	60.0
3	Near Guest House	58.1	46.8
4	Near Colony	69.5	68.2
5	Tangeda Village	61.9	56.2

Noise Levels for the month January-2022

S.No	Location	Day Time	Night Time
1	Plant Main gate	52.7	37.5
2	Near Lab	68.5	58.6
3	Near Guest House	48.7	48.7
4	Near Colony	45.9	35.6
5	Tangeda Village	62.6	56.8

Noise Levels for the month November-2021

S.No	Location	Day Time	Night Time
1	Plant Main gate	51.4	35.9
2	Near Lab	67.7	61.9
3	Near Guest House	49.9	39.7
4	Near Colony	53.0	46.5
5	Tangeda Village	63.8	57.9

Noise Levels for the month September-2021

S.No	Location	Day Time	Night Time
1	Plant Main gate	52.5	48
2	Near Lab	61.8	52.6
3	Near Guest House	52.4	40.4
4	Near Colony	53.9	52.5
5	Tangeda Village	65.8	59.2

Noise Levels for the month July-2021

S.No	Location	Day Time	Night Time
1	Plant Main gate	62.4	55.8
2	Near Lab	60.8	53.4
3	Near Guest House	52.6	41.2
4	Near Colony	61.2	54.6
5	Tangeda Village	60.3	57.7

Noise Levels for the month May-2021

S.No	Location	Day Time	Night Time
1	Plant Main gate	63.6	56.9
2	Near Lab	62.0	54.5
3	Near Guest House	34.7	26.5
4	Near Colony	58.4	51.7
5	Tangeda Village	61.7	59.9

Note: All values are mentioned in Decibles

Noise Levels for the month February-2022

S.No	Location	Day Time	Night Time
1	Plant Main gate	55.9	42.6
2	Near Lab	69.2	63.2
3	Near Guest House	61.2	55.4
4	Near Colony	63.4	57.2
5	Tangeda Village	65.2	59.2

Noise Levels for the month December-2021

S.No	Location	Day Time	Night Time
1	Plant Main gate	52.8	48.5
2	Near Lab	65	63.2
3	Near Guest House	41.5	39
4	Near Colony	35.4	27.3
5	Tangeda Village	59.8	51.2

Noise Levels for the month October-2021

S.No	Location	Day Time	Night Time
1	Plant Main gate	50.8	34.9
2	Near Lab	61.4	40.7
3	Near Guest House	33.7	26.3
4	Near Colony	46.8	45.1
5	Tangeda Village	61.5	52.7

Noise Levels for the month August-2021

S.No	Location	Day Time	Night Time
1	Plant Main gate	50.8	34.9
2	Near Lab	64.4	62.8
3	Near Guest House	33.7	26.3
4	Near Colony	41.2	38.6
5	Tangeda Village	64.7	52.9

Noise Levels for the month June-2021

S.No	Location	Day Time	Night Time
1	Plant Main gate	53	48.2
2	Near Lab	64.8	63.4
3	Near Guest House	42.6	40.8
4	Near Colony	57.4	48.5
5	Tangeda Village	63.4	58.6

Noise Levels for the month April-2021

S.No	Location	Day Time	Night Time
1	Plant Main gate	64.8	60.4
2	Near Lab	63.1	57.2
3	Near Guest House	59.2	40.2
4	Near Colony	65.6	53.8
5	Tangeda Village	70.5	59.2

B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, GoI: Valid upto August, 2022

TEST REPORT

AMBIENT AIR QUALITY DATA

Client : M/s Bhavya Cements Private Limited,
Project : Bhavya Limestone Mines,
Location : Tangeda Village, Dachepally Mandal, Guntur District, A.P.,
Season : Monsoon Season-2021

Location Name: Mines Office **Code: A-1**

DATE	SPM [µg/m³]		PM10 [µg/m³]		PM2.5 [µg/m³]		SO_2 [µg/m³]		NO_2 [µg/m³]	
	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift
18.08.2021	198	192	48	42	26	23	9.8	9.5	10.8	10.5
19.08.2021	184	180	42	40	23	21	10.2	10.0	11.5	11.3
20.08.2021	196	190	45	43	22	20	9.5	9.3	10.6	10.4
21.08.2021	190	184	46	41	20	19	9.7	9.5	10.4	10.2
NAAQ Standards for Industrial, Residential, Rural and Other Areas (24 hourly standard)	-		**100 [µg/m³]**		**60 [µg/m³]**		**80 [µg/m³]**		**80 [µg/m³]**	
8 hourly Standard as per IBM	**700 [µg/m³]**		**350 [µg/m³]**		-		-		-	

Note: Monitoring was carried out for 24 hourly intervals
SPM- Suspended Particulate Matter (SPM)
PM_{10}- Particulate Matter Size (PM10)
$PM_{2.5}$- Particulate Matter Size (PM2.5)
SO_2- Sulphur Dioxide
NO_2- Nitrogen Dioxide

Authorized Signatory

*Complaints Register is available at Laboratory.

4th Floor, 'AMITY VILLE', 12-13-1270/71/73,
St. Ann's Road, Tarnaka,
Secunderabad - 500017,
Telangana, India

Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063
Email : lab@bsenvitech.com, info@bsenvitech.com
Website : www.bsenvitech.com
CIN No. : U74210TG1999PTC032358

B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, GoI: Valid upto August, 2022

TEST REPORT

AMBIENT AIR QUALITY DATA

Client : M/s Bhavya Cements Private Limited,
Project : Bhavya Limestone Mines,
Location : Tangeda Village, Dachepally Mandal, Guntur District, A.P.,
Season : Monsoon Season-2021.

Location Name: Haulage Road **Code: A-2**

DATE	SPM [µg/m³]		PM10 [µg/m³]		PM2.5 [µg/m³]		SO_2 [µg/m³]		NO_2 [µg/m³]	
	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift
18.08.2021	272	268	50	48	24	21	11.8	11.5	12.9	12.5
19.08.2021	268	262	56	53	26	23	10.5	10.3	11.6	11.2
20.08.2021	270	265	60	56	22	20	11.2	11.0	12.3	12.1
21.08.2021	273	270	53	50	25	22	12.3	12.1	13.5	13.2
NAAQ Standards for Industrial, Residential, Rural and Other Areas (24 hourly standard)	-		**100 [µg/m³]**		**60 [µg/m³]**		**80 [µg/m³]**		**80 [µg/m³]**	
8 hourly Standard as per IBM	**700 [µg/m³]**		**350 [µg/m³]**		-		-		-	

Note: Monitoring was carried out for 24 hourly intervals
SPM- Suspended Particulate Matter (SPM)
PM_{10}- Particulate Matter Size (PM10)
$PM_{2.5}$- Particulate Matter Size (PM2.5)
SO_2- Sulphur Dioxide
NO_2- Nitrogen Dioxide

Authorized Signatory

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Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063
Email : lab@bsenvitech.com, info@bsenvitech.com
Website : www.bsenvitech.com
CIN No. : U74210TG1999PTC032358

TEST REPORT

ANNEXURE-I (Conti..)

AMBIENT AIR QUALITY DATA

Client : M/s Bhavya Cements Private Limited,
Project : Bhavya Limestone Mines,
Location : Tangeda Village, Dachepally Mandal, Guntur District, A.P.,
Season : Monsoon Season-2021,

Location Name: Near Crusher **Code: A-3**

DATE	SPM [µg/m³]		PM10 [µg/m³]		PM2.5 [µg/m³]		SO_2 [µg/m³]		NO_2 [µg/m³]	
	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift
18.08.2021	284	280	48	46	24	23	12.4	12.1	13.2	12.9
19.08.2021	290	288	49	47	25	22	11.5	11.3	12.8	12.5
20.08.2021	293	290	50	49	23	20	12.1	11.8	13.0	12.8
21.08.2021	286	282	53	51	26	24	11.3	11.1	12.5	12.2
NAAQ Standards for Industrial, Residential, Rural and Other Areas (24 hourly standard)	-		**100 [µg/m³]**		**60 [µg/m³]**		**80 [µg/m³]**		**80 [µg/m³]**	
8 hourly Standard as per IBM	**700 [µg/m³]**		**350 [µg/m³]**		-		-		-	

Note: Monitoring was carried out for 24 hourly intervals
SPM- Suspended Particulate Matter (SPM)
PM_{10}- Particulate Matter Size (PM10)
$PM_{2.5}$- Particulate Matter Size (PM2.5)
SO_2- Sulphur Dioxide
NO_2- Nitrogen Dioxide

Authorized Signatory

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Website : www.bsenvitech.com
CIN No. : U74210TG1999PTC032358

ANNEXURE-I (Conti..)

AMBIENT AIR QUALITY DATA

Client : M/s Bhavya Cements Private Limited,
Project : Bhavya Limestone Mines,
Location : Tangeda Village, Dachepally Mandal, Guntur District, A.P.,
Season : Monsoon Season-2021.

Location Name: Drilling Area **Code: A-4**

DATE	SPM [µg/m³]		PM10 [µg/m³]		PM2.5 [µg/m³]		SO_2 [µg/m³]		NO_2 [µg/m³]	
	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift
18.08.2021	254	250	56	54	29	27	12.3	12.0	13.8	13.5
19.08.2021	248	242	58	53	25	23	13.1	12.9	14.2	14.0
20.08.2021	250	246	52	50	28	26	12.5	12.3	12.3	12.1
21.08.2021	246	240	59	56	27	25	12.7	12.5	12.5	12.2
NAAQ Standards for Industrial, Residential, Rural and Other Areas (24 hourly standard)	-		**100 [µg/m³]**		**60 [µg/m³]**		**80 [µg/m³]**		**80 [µg/m³]**	
8 hourly Standard as per IBM	**700 [µg/m³]**		**350 [µg/m³]**		-		-		-	

Note: Monitoring was carried out for 24 hourly intervals
SPM- Suspended Particulate Matter (SPM)
PM_{10}- Particulate Matter Size (PM10)
$PM_{2.5}$- Particulate Matter Size (PM2.5)
SO_2- Sulphur Dioxide
NO_2- Nitrogen Dioxide

19-Aug-21

Authorized Signatory

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CIN No. : U74210TG1999PTC032358

ANNEXURE-I (Contd..)

AMBIENT AIR QUALITY DATA

Client : M/s Bhavya Cements Private Limited,
Project : Bhavya Limestone Mines,
Location : Tangeda Village, Dachepally Mandal, Guntur District, A.P.,
Season : Monsoon Season-2021,

Location Name : Loading Area **Code: A-5**

DATE	SPM [µg/m³]		PM10 [µg/m³]		PM2.5 [µg/m³]		SO_2 [µg/m³]		NO_2 [µg/m³]	
	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift	A Shift	B Shift
18.08.2021	199	196	52	50	25	23	11.2	11.0	12.4	12.1
19.08.2021	205	203	54	52	26	22	10.8	10.5	11.9	11.5
20.08.2021	202	200	58	55	27	24	12.0	11.8	13.2	12.9
21.08.2021	206	204	56	53	22	20	11.3	11.1	12.6	12.4
NAAQ Standards for Industrial, Residential, Rural and Other Areas (24 hourly standard)	-		**100 [µg/m³]**		**60 [µg/m³]**		**80 [µg/m³]**		**80 [µg/m³]**	
8 hourly Standard as per IBM	**700 [µg/m³]**		**350 [µg/m³]**		-		-		-	

Note: Monitoring was carried out for 24 hourly intervals

SPM- Suspended Particulate Matter (SPM)
PM_{10}- Particulate Matter Size (PM10)
$PM_{2.5}$- Particulate Matter Size (PM2.5)
SO_2- Sulphur Dioxide
NO_2- Nitrogen Dioxide

Authorized Signatory

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CIN No. : U74210TG1999PTC032358

BHAVYA CEMENTS PRIVATE LIMITED

(A Subsidiary of Anjani Portland Cement Limited)

(An ISO 9001 : 2015 Certified Company)

CIN : U26941AP2007PTC053611, GSTIN : 37AADCB1182A1Z8

Lr.No.BCPL/ENV/PCB/HW/2022-23,
Date: 30/05/2022.

To
The Environmental Engineer,
Regional office,
A.P Pollution Control Board,
D.No:4-5-4/5C,
4/3 – Navabharath Nagar, Ring Road,
Guntur – 522006.

Respected Sir,

Sub: Submission of Annual Returns for the Disposal of Hazardous Waste – reg.

Please find attached here with Form-IV for the financial year 2021-22, to facilitate disposal of Hazardous Waste facility for M/s. Bhavya Cements Private Limited, Tangeda (V), Dachepalli (M), Guntur (Dist).

Thanking you,

Yours faithfully,
For BHAVYA CEMENTS PRIVATE LIMITED

SHAIK BABA FAKRUDDIN
Sr.G.M - Works

BHAVYA CEMENT
Solid Gold

Registered Office & Works :
Tangeda (Village),
Dachepally (Mandal), Guntur District,
Andhra Pradesh - 522 414
E-mail : hrworks@bhavyacements.in

Corporate Office : Unit No. C2, 2nd Floor,
Quena Square, Taj Deccan Road,
Erramanzil, Hyderabad, Telangana - 500 082
Phone : 040-23553864/65
Email : info@bhavyacements.in

	waste		address of consignee	of packing	transport ation	transportation
			-	-	-	-
9	Quantity of useful materials sent back to the manufacturers* and others#	:	Name and type of material sent back to		**Quantity in Tonnes/KL**	
			Manufacturers		**Nil**	
			Others*		**Nil**	

Signature: S Baba fam 30/5

Date: 30/05/2022
Place: Tangeda

Designation:

S.Baba Fukruddin, Sr.G.M (Works)
Bhavya Cements Pvt.Ltd
Tangeda

Annexure-IV

Monthly Power Consumption				
Month	**Production Total,Kwh**	**APCM,Kwh**	**Utilities & Losses,Kwh** (Township,Mines, Distribution loss,Shutdown & Others)	**Plant Total,Kwh**
Apr-21	6259486	737904.6	208418	6467904
May-21	6996998	845915.6	207802	7204800
Jun-21	7287757	912725.0	189643	7477400
Jul-21	7671445	1012842.6	209176	7880621
Aug-21	5118411	623029.0	195557	5313968
Sep-21	6995621	935730.0	201869	7197490
Oct-21	3899583	973749.0	215817	4115400
Nov-21	2742442	724028.2	169058	2911500
Dec-21	3491588	899386.6	182212	3673800
Jan-22	3434818	672817.2	165182	3600000
Feb-22	4017933	898990.3	169667	4187600
Mar-22	8167850	1171023.3	194750	8362600
Total Power Used for Air Pollution Control Measures,Kwh			10408141	
Total Cost @ Rs.5.48 /Kwh is			57036614	

DETAILS OF POLLUTION CONTROL EQUIPMENT DETAILS

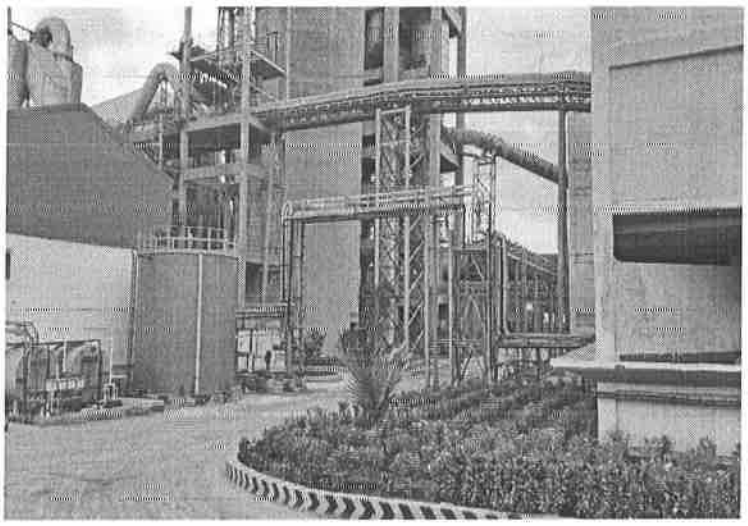
S.No	Sources	Capacity	Stack height form ground level	Name of APCE
1	Kiln & Raw mill	3000TPD	150	RABH
2	Cooler	-	50	ESP
3	Coal Mill	50TPH	50	Bag Filter
4	Cement Mill – 1	80 TPH	50	Bag Filter
5	Cement Mill - 2	80 TPH	50	Bag Filter

Bhavya Cements Private Limited						
Filter Bags consumption 2021-2022						
Date	**Description of Materials**	**UOM**	**Qty**	**Rate**	**Amount**	**Section**
29.05.2021	Filter Bag Size:127mm Dia x 3350mm Long	Nos	160	490	78400	Cement Mill-2
30.05.2021	Filter Bag Size:127mm Dia x 3350mm Long	Nos	165	490	80850	Cement Mill-2
19.06.2021	Filter Bag Size:127mm Dia x 3350mm Long	Nos	60	490	29400	Raw Mill
25.06.2021	Filter Bag Size:127mm Dia x 3350mm Long	Nos	90	490	44100	Kiln
08.07.2021	Filter Bag Size:127mm Dia x 3350mm Long	Nos	20	490	9800	Packing Plant-2
03.09.2021	Filter Bag Size:127mm Dia x 3350mm Long	Nos	70	490	34300	Kiln
07.10.2021	Filter Bag Size:127mm Dia x 3350mm Long	Nos	35	490	17150	Kiln
13.11.2021	Filter Bag Size:127mm Dia x 3350mm Long	Nos	20	490	9800	Cement Mill-1
05.03.2022	Filter Bag Size:127mm Dia x 3350mm Long	Nos	5	1370	6850	Cement Mill-1
16.03.2022	Filter Bag Size:127mm Dia x 3350mm Long	Nos	36	1370	49320	Kiln
Total Bags Cost, Rs/-					**359970**	
Cages consumption 2021-2022						
Date	**Description**	**UOM**	**Qty**	**Rate**	**Amount**	**Section**
17.08.2021	Bag Filter Cages	Nos	50	600	**30000**	Coal Mill
Total Amount, Rs/-					**389970**	

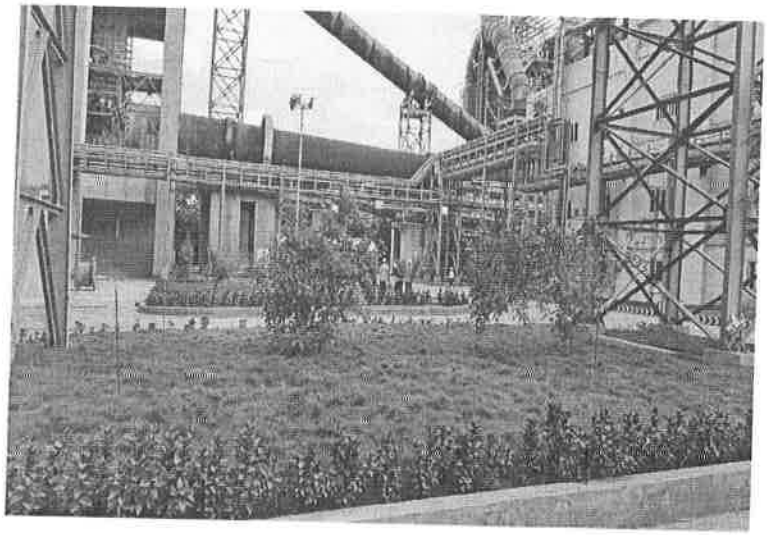
Plant Main Gate

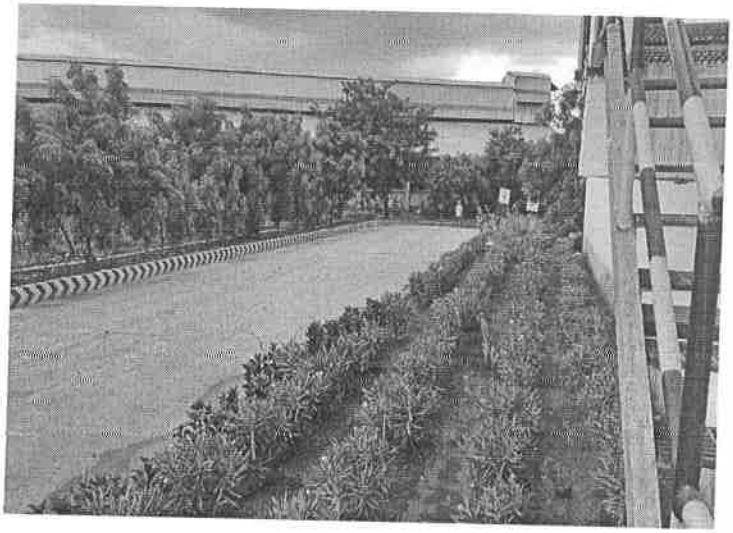
Admin Office

Near DM Plant

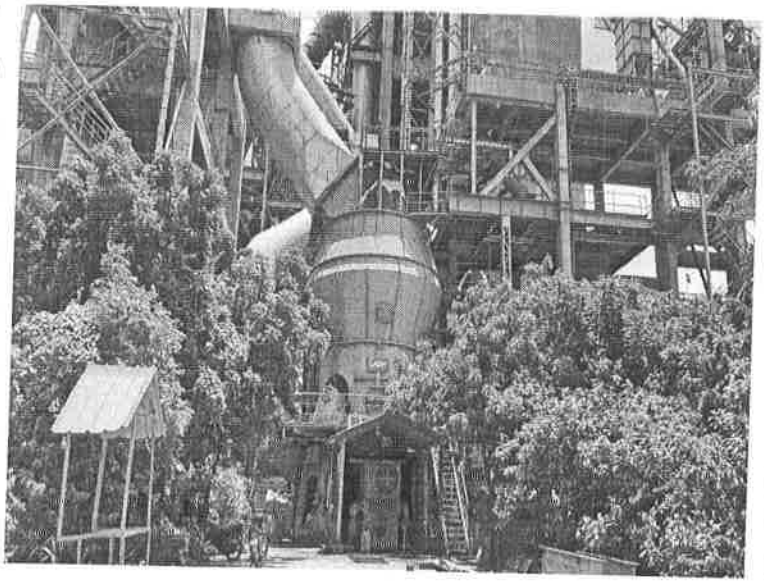


Near TG Building

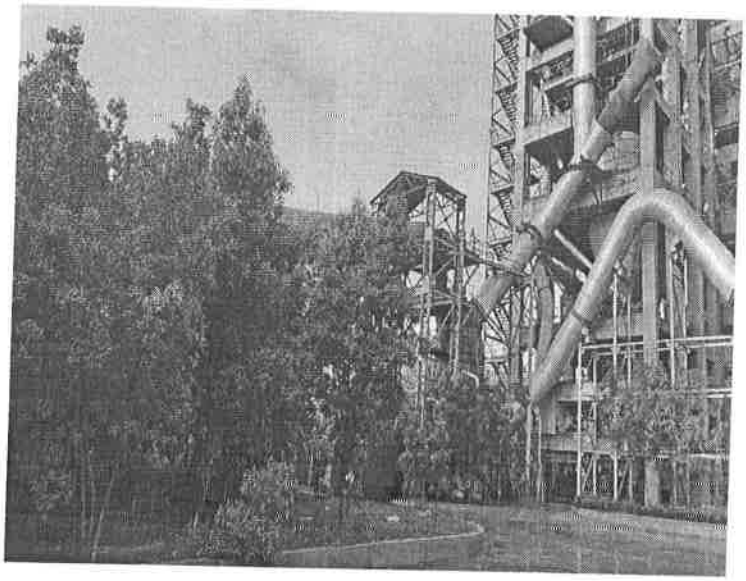




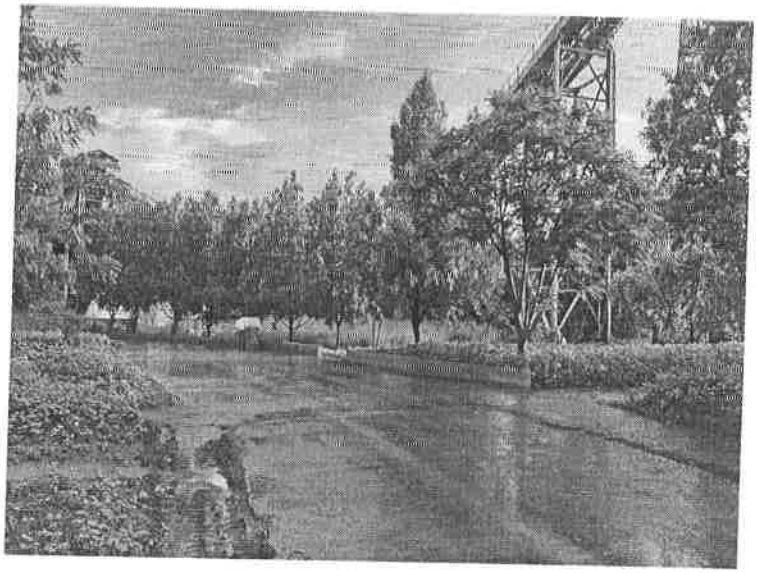
Near Raw Mill



Near Laboratory



Near Coal Crusher



Plant inside Roads