

CCCPL/DACHEPALLI/ENV/2022

28th September, 2022

**The Environmental Engineer,
Andhra Pradesh Pollution Control Board,
Regional Office, D. No: 135-43, 1st Floor,
Lucky Complex, JKC College Road,
GUNTUR – 522007 (Andhra Pradesh)**

Sub: Submission of Environmental Statement (Form-V) under Rule No.14 of E (P) Rules, 1986 & amendments thereof for our 5.0 MTPA Limestone Mine located at Pedagarlpadu (V), Dachepalli (M), Guntur District, Andhra Pradesh for the period of 2021-22 - Reg.

Ref: 1. CFO Order No APPCB/RO-GNT/348/HO/CFO/2019 Dated 06.05.2019.
2. EC F.N. J-11015/152/2013-IA.II (M) Dated 21st December, 2015.

Dear Sir,



Reference with the Consent Order and Environmental Clearance cited above, we are herewith submitting Environmental Statement (Form-V) under Rule No.14 of E (P) Rules, 1986 & amendments thereof for our 5.0 MTPA Limestone Mine located at Pedagarlpadu (V), Dachepalli (M), Guntur District, Andhra Pradesh for the period of 2021-22.

This is for your information & records please.

Thanking you,

Yours faithfully,

For Chettinad Cement Corporation Private Limited

**Seetharamulu Ch
Joint President (Works)**

Copy: Inspector General of Forests,
Integrated Regional Office (IRO), Vijayawada Green House Complex,
Vijayawada – 520010, Andhra Pradesh – Soft copy through e-mail.

ENVIRONMENTAL STATEMENT (FORM - V)

FOR FINANCIAL YEAR 2021-22

PEDAGARLAPADU LIMESTONE MINE – 5.0 MTPA



CHETTINAD CEMENT CORPORATION PRIVATE LIMITED

Pedagarlapadu (V), Dachepalli (M),
Guntur (Dist.), Andhra Pradesh - 522437

FORM – V

(See Rule 14)

Environmental Statement Report for Financial Year Ending 31st March 2022

Part – A

- A. Name and address of the owner : **Sri. Seetharamulu Ch**
/occupier of the industry operation
or process **Joint President –Works (Unit Head)**
Chettinad Cement Corporation Private Limited
(Mining)
Pedagarlapadu & Kesanupalli (Villages)
Dachepalli (M), Palnadu District – 522 437
Andhra Pradesh.
- B. Industry category Primary : --
(STC Code)
- C. Secondary- (SIC Code) : --
- D. Production capacity : Limestone – 5.0 Million TPA
- E. Year of establishment : 2019
- F. Date of last environmental : 24.09.2021
statement submitted

Part – B

Water and Raw Material Consumption

1. Water consumption in m³/day:

Process : 100
Cooling : --
Domestic : 10

Name of the products	Process water consumption per unit of products (m ³ /Tonne of Product)	
	During the previous financial year (2020-21)	During the current financial year (2021-22)
Limestone	0.0049	0.0048

2. Raw Material Consumption:

Name of raw materials	Name of products	Consumption of raw material per unit of output	
		During the previous financial year (2020-21)	During the current financial year (2021-22)
Since this is a mining industry, no raw material is being used for the extraction of limestone			

Part – C

Pollution Discharged To Environment/Unit of Output

(Parameter as specified in the consent issued)

Pollutants		Quantity of pollutants discharged (mass/day)	Concentrations of pollutants discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	Pollutants	Kg/day	mg/L	%
There were no water pollutants as mine discharge was not there.				
b) Air	Pollutants	Kg/day	mg/Nm ³	%
There were no source emissions from Mining operations.				

Ambient Air Quality Monitoring Summary (Core Area):

All values are expressed in $\mu\text{g}/\text{m}^3$

Location	Mines Office				Haulage Road				Drilling area				Crusher Unloading			
Para Meters	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
Apr-21	MONITORING AGENCY NOT VISITED DUE TO COVID-19 PANDEMIC.															
May-21																
Jun-21	50.2	22.8	8.3	12.7	60.1	24.9	12.8	18.2	62.6	28.6	10.1	13.8	50.2	20.6	12.8	15.9
Jul-21	53.5	20.3	12.1	15.4	58.3	21.7	10.6	17.5	58.2	24.1	12.3	14.5	54.3	22.8	11.8	17.2
Aug-21	55.9	19.6	11.5	14.7	61.5	25.0	9.0	14.5	49.2	17.0	10.6	13.8	55.4	20.7	8.5	11.3
Sep-21	52.4	20.7	12.1	13.8	60.4	22.4	9.6	12.1	50.1	18.2	11.8	14.2	50.7	19.8	9.1	13.4
Oct-21	44.1	17.2	8.8	9.0	57.1	15.6	6.8	10.5	47.2	12.5	12.5	14.8	58.3	18.5	7.4	12.0
Nov-21	53.0	21.4	12.9	14.2	61.8	23.4	10.4	13.8	51.5	19.4	12.4	15.1	51.8	20.4	10.4	14.2
Dec-21	52.0	20.0	11.8	12.1	58.9	21.8	8.8	11.4	48.9	17.8	10.4	13.8	49.0	19.0	8.8	12.8
Jan-22	51.5	23.2	10.8	15.6	61.8	23.4	10.9	13.4	49.4	19.1	12.4	13.5	49.5	18.4	9.2	12.4
Feb-22	52.8	22.1	11.2	14.8	62.4	24.1	11.2	13.0	48.4	18.1	13.5	14.2	48.4	17.9	8.9	11.8

Ambient Air Quality Monitoring Summary (Buffer Area):

All values are expressed in $\mu\text{g}/\text{m}^3$

	Pedagarlapadu Village				Takkellapadu Village				Kachavaram Village				Veerapuram Village			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
Apr-21	MONITORING AGENCY NOT VISITED DUE TO COVID-19 PANDEMIC															
May-21																
Jun-21	56.7	24.1	9.5	11.9	48.2	19.2	12.1	17.5	60.8	22.4	10.2	14.4	62.1	24.2	9.5	12.6
Jul-21	52.8	22.6	12.1	18.6	52.1	21.6	10.2	12.7	56.5	21.0	11.7	13.1	57.9	22.4	12.1	16.8
Aug-21	57.3	16.0	10.0	15.7	52.3	17.3	9.3	12.3	57.1	15.8	12.4	14.6	60.3	25.7	13.3	14.3
Sep-21	54.2	23.9	10.8	16.1	50.3	19.4	10.4	13.7	48.3	17.9	14.2	16.9	54.1	23.8	12.1	16.4
Oct-21	45.3	19.3	11.1	13.1	53.9	22.0	10.6	11.5	46.0	21.1	8.5	15.4	52.2	24.0	9.7	16.3
Nov-21	55.4	24.5	11.4	17.4	51.4	20.8	11.5	14.4	49.8	18.4	15.4	17.8	55.4	24.5	13.4	17.8
Dec-21	52.0	22.4	9.8	15.4	50.2	18.8	9.8	13.0	47.0	16.8	13.5	15.8	53.8	22.0	11.4	15.9
Jan-22	53.8	22.1	11.4	17.4	51.4	18.5	9.9	14.5	47.8	18.8	15.5	16.4	53.5	24.1	13.4	15.8
Feb-22	52.5	21.4	12.5	17.2	52.4	17.2	9.4	13.8	46.5	17.2	15.3	16.0	52.4	23.2	12.5	14.5

Ambient Noise level Monitoring Summary:

	Budawada Village		Kachavaram Village		Gadawaripalli Village		Tummalacheruvu Village	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Apr-21	MONITORING AGENCY NOT VISITED DUE TO COVID-19 PANDEMIC							
May-21								
Jun-21	54.2	41.6	50.6	43.1	52.1	42.8	53.4	42.5
Jul-21	50.1	43.4	51.4	41.3	53.8	42.1	51.3	40.6
Aug-21	51.4	42.2	52.4	43.6	53.7	42.4	51.3	43.1
Sep-21	52.4	40.8	50.1	41.3	51.9	42.1	52.6	43.8
Oct-21	49.3	38.7	48.9	42.2	44.0	40.5	47.4	41.1
Nov-21	50.8	41.4	49.7	42.6	52.5	43.8	53.8	40.5
Dec-21	51.7	40.4	49.6	40.8	50.4	41.4	51.8	42.4
Jan-22	51.8	41.2	51.4	42.5	52.4	41.8	53.5	43.4
Feb-22	51.6	41.4	50.8	43.2	52.8	42.8	53.2	42.0

Noise levels monitoring in dB (A); Noise level monitoring carried out by M/s. Glens.

Day time is reckoned in between 6 AM and 10 PM; Limit < 75.0

Night time is reckoned in between 10 PM and 6 AM; Limit < 70.0

Part – D
Hazardous Waste

As specified under

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

Hazardous waste	Total Quantity (Liters)	
	During the previous financial year (2020-21)	During the current financial year (2021-22)
a) Form Process		
Waste Oil	Nil	Nil
b) Form Pollution Control Facilities	Nil	Nil

Part – E
Solid Waste

Solid waste	Total Quantity (Tonnes)	
	During the previous financial year (2020-21)	During the current financial year (2021-22)
A. From process	Nil	Nil
B. From pollution control facilities	Nil	Nil
C. 1. Quantity recycled or re-utilized within the unit (Top Soil)	81700 MT	19188 MT
2. Sold	Nil	Nil
3. Disposed	Nil	Nil

Part – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicates disposal practice adopted for both these categories of wastes

Hazardous waste (Used Oil) was not generated for the period of 2021-22.

The black cotton soil (Top Soil) of 19188 MT was generated was being used for plantation purpose.

Part – G

Impact of the Pollution Control Measures on Conservation of Natural Resources and Consequently On the Cost of Production

Significant resource conservation measures undertaken as follows:

- Systematic & Scientific Mining Operations and use of HEMMs.
- Extensive & Intensive geological exploration conducted.
- Controlled blasting techniques & wet drilling are adopted.
- Proportionate blending of different grades of ore for meeting plant requirements.
- Water spraying is being done on the haul roads to suppress the dust emissions.
- Good green belt developed along the mine boundary

Part – H

Additional Investment for Environmental Protection Including Abatement of Pollution

- An amount of 13.94 lakhs incurred towards recurring expenditure for Greenbelt development & maintenance, dust suppression, monitoring and occupational health check-up of the employees.

PART – I

Any Other Particulars for Improving the Quality of the Environment

- Greenbelt has developed in an area of about 8.70 ha with 11210 no's of plants in the mining lease area as on 31.03.2022. Proposed greenbelt development for 2022-23 is in an area of 1.34 Ha.
- Rain water harvesting pond developed in the mining lease to hold the surface runoff water.



Authorized Signatory

A handwritten signature in purple ink, appearing to be "Seetharamulu Ch.".

Seetharamulu Ch
Joint President (Works)

GREENBELT DEVELOPMENT

Year of Plantation	No's Saplings Planted	Area in Ha	Survival Rate (%)
2018-19	2700	2.43	97%
2019-20	2130	1.81	98%
2020-21	4010	2.51	98%
2021-22	2370	1.95	90%
Total	11210	8.70	



Plantation in Mine lease & along the lease boundary





Plantation in Mine lease & along the lease boundary

PIEZOMETERS WITH TELEMETRY

We have installed 2 no's of Piezometers with telemetry system at our Plant site & Mines Office Complex to continuous measurement of Ground Water Tables levels.



RAIN WATER HARVESTING POND



WATER SPRAYING (DUST SUPPRESSION) THROUGH TANKER