

MHIPL/MCW/ENV/2023/198

21.09.2023

To
The Environmental Engineer
Telangana State Pollution Control Board, Regional Office
H.NO. 8-15, 1st floor, Sri Laxmi complex, Near RTO,
Sri Vinayaka Nagar, Hyderabad Road,
NALGONDA - 508 001

Dear Sir,

Sub: Submission of Environmental Statement (Form-V) for the FY 2022-23 - Reg.
Ref: Consent Order No. 210822979374, Dated.30.07.2021

This has reference to the subject cited above, we are herewith submitting Environmental Statement (Form-V) for the Financial Year 2022-23 as required under the Environment Protection Rules, 1986 for our **Cement Plant I, II & III.**

This is for your kind information and records please.

Thanking you

Yours faithfully
for MY HOME INDUSTRIES PRIVATE LIMITED



N. Srinivas Rao
President (Works) & Unit Head

Encl: As Above



ENVIRONMENTAL STATEMENT REPORT

(FORM-V)

YEAR 2022-23



Cement Plant (Unit – I, II & III)

MY HOME INDUSTRIES PRIVATE LIMITED

Mellacheruvu (V & M) - 508246

Suryapet District, Telangana State

FORM – V

(See Rule 14)

Environmental Statement Report for Financial Year Ending 31st March 2023

PART – A

Name and address of the owner /occupier of the industry operation or process : **Sri. Chandra Shekhar Pandey**
Director (Operations)
My Home Industries Private Limited
Mellacheruvu (V&M)
Suryapet Dist. – 508 246.

Industry Category Primary- (STC Code) : Red Category (Cement Manufacturing)
Secondary- (SIC Code)

Production Capacity : Cement Plant (in MTPA)

Unit-I : Clinker : 0.800
: Cement : 0.792

Unit-II : Clinker : 1.300
: Cement : 1.108

Unit-III : Clinker : 1.400
: Cement : 2.000

Year of Establishment : Unit - I : 1998
Unit - II : 2002
Unit - : 2007
III

Date of last Environmental Statement submitted : 26th September 2022

PART – B

WATER AND RAW MATERIAL CONSUMPTION

Water consumption (m³/day)

Process & Industrial Cooling : 801

Domestic : 198

Name of the Product	Process water consumption per unit of products (KL/MT)	
	During the current Financial Year(2021-22)	During the current Financial Year(2022-23)
Cement	0.122	0.106

Raw Material Consumption

Name of raw Material	Name of product	Consumption of raw material per unit of output (MT)	
		During the Financial Year (2021-22)	During the Financial Year (2022-23)
Limestone	Clinker	1.4041	1.5819
Slag		0.0000	0.0000
Coal		0.1589	0.1628
Laterite		0.0845	0.0603
Gypsum	Cement	0.0405	0.0366
Flyash	PPC Cement	0.3390	0.1130

PART – C

POLLUTION DISCHARGED TO ENVIRONMENT

(Parameter as specified in the consent issued)

Pollutant		Quantity of pollutants discharged 2022-23	Concentrations of pollutants in discharges 2022-23	Percentage of variation from prescribed standards with reasons
a) Water		Dry process is adopted for cement manufacturing. There is no process wastewater generation.		
b) Air	Pollutant	Kg/day	mg/Nm³	%
Unit-I				
KILN - I RABH	SPM	90.8	14.46	-51.8
COAL MILL - I BF		18.1	20.87	-30.4
COOLER - I ESP		60.4	12.78	-57.4
CEMENT MILL - I BF		5.7	11.73	-60.9
CEMENT MILL - II BF		27.4	12.57	-58.1
Unit-II				
KILN - II RABH	SPM	96.1	14.07	-53.1
COAL MILL - II BF		31.9	13.19	-56.0
COOLER - II ESP		51.3	11.77	-60.8
CEMENT MILL - IA BF		19.3	13.69	-54.4
LS CRUSHER - II BF		31.6	22.32	-25.6
Unit-III				
KILN - III RABH	SPM	148.0	16.34	-45.5
COAL MILL - III BF		28.8	11.91	-60.3
COOLER - III ESP		130.6	17.92	-40.3
CEMENT MILL - IV BF		25.2	13.45	-55.2
CEMENT MILL - V BF		15.4	12.18	-59.4
LS CRUSHER - III BF		35.9	23.18	-22.7

Pollutants		Quantity of pollutants discharged 2022-23	Concentrations of pollutants in discharges 2022-23	Percentage of variation from prescribed standards with reasons
Air	Pollutant	Kg/day	mg/Nm ³	%
Kiln-I	NO _x	2660.6	423.5	-47.1
Kiln-II		2775.6	406.3	-49.2
Kiln-III		3262.8	360.2	-55.0

Note: SO₂ emission from KILN is very less and not detectable as SO₂ is scrubbed inherently in cement kiln operating at 900 -1200°C.

PART – D

HAZARDOUS WASTE

(As specified under

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

Hazardous waste	Total quantity	
	During the Financial Year (2021-22)	During the Financial Year (2022-23)
From process		
Waste oil (in Liters)	9448	11,987
Waste grease (in Kgs)	9455	11,390
From pollution control facilities	Nil	

- Co-processed 30,687.210 MT of organic hazardous waste (Liquid / Solid) from pharma industries and Plastic waste. Thus, achieved Thermal Substitution Rate (TSR %) of 1.42% in Kiln-1, 4.76% in Kiln-2 and 5.31% in Kiln-3. The average TSR % of alternate fuels is 4.23. Target is to achieve 5%.

PART – E

SOLID WASTE

Solid waste	Total quantity (Kg)	
	During the Financial Year (2021-22)	During the Financial Year (2022-23)
From process	Nil	Nil
From pollution control facilities	Nil	Nil
Quantity recycled or re-utilized within the unit.	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

Waste oils and grease are generated is reused for lubrication of equipments and co-processed in cement kilns. Any material that is not reusable is being sold to authorized re-processing/recycling agencies.

PART – G

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

- Fly ash is being used for manufacturing of Portland Pozzolona Cement. By using fly ash, limestone consumption per ton of cement manufacturing is reduced. Total flyash 3,10,190 tonnes was utilized in manufacturing of PPC in 2022-23. PPC cement production was 34.41% of the total cement production. Dust collected in the pollution control system is 100% recycled back into process.
- Domestic effluent are being treated in sewage treatment plant and 100% re-used for watering greenbelt, gardens, lawns through a network of irrigation system within the plant.
- Conserving the natural resources and minimizing the production cost by the implementation of stringent raw mix controls.

PART – H

Additional investment for environmental protection including abatement of pollution

MHIPL spent an amount of ₹ 1320 Lakhs during 2022-23 towards Environmental protection & abatement of Pollution (Green Belt development & maintenance, PCEs maintenance, PCEs energy consumption charges, Environmental monitoring & measurement, Housekeeping and online monitoring system).

PART – I

Any other particulars in respect of environmental protection and abatement of pollution

- Greenbelt in an area of about 6.30 ha was developed with 6500 No's of saplings during the year 2022-23.
- MHIPL has spent about ₹ 1.41 crores towards welfare activities under CSR/ESR in the nearby villages during year 2022-23.
- Environmental monitoring for stack emission, ambient air quality, noise levels and wastewater quality is being done regularly. Online monitoring data from 3 CAAQM stations and CEMS of 14 stacks is connected to CPCB & TSPCB servers.
- Usage of AFR along with coal to increase the AFR consumption and TSR% in kilns.

- Certification obtained for Integrated Management System (ISO 9001-2015, ISO 14001-2015, ISO 45001:2018 & ISO 50001-2018).
- With the utilization of Hazardous Waste as alternative fuel in cement kiln, achieved substantial reduction of greenhouse gas (CO₂) emissions.
- Plantation program conducted on World Environment Day 2023.
- Cooler chamber sealing done to improve the cooler performance and reduce the cooler discharge temperature.
- Acoustic enclosures, vibration pads and silencers are provided to control noise levels.
- Minimizing the dust concentration by providing covered sheds and wind barrier sheets for raw material storage at Laterite yard and clinker silo area, Covered belt conveyors and water spraying system for raw materials.
- VFD installed for Unit-2 coal SFM Auxiliary Bag Filter.
- VRM-2 water spray system pump of 15m³/hr replaced with 4m³/hr for reducing of water consumption.
- Shredder machine is installed for shredding In house damaged tarpaulins and co-process in kiln.
- Developed rain water harvesting pond at NE corner of the plant. Rain water recharge pits are constructed at Cement plant & residential colony.
- Fixing of LED lamps at residential colony, administrative building and CCR building for energy conservation.
- 2 nos. of Solar Water heaters (500 Lt/D) provided at guesthouse to conserve electricity usage.
- Low NOx burners installed to all kilns to reduce NOx emissions.
- Weather Monitoring Station installed for reporting Meteorological data.
- Awareness camp conducted on Life style for Environment.

Authorized Signatory

N. Srinivasa Rao

President (Works) & Unit Head