

MANGALAM CEMENT LTD.



Regd. A/D

MCL/Env. Audit / 2021-2022/ 2427

Dt:07.09.2021

Sr. Environment Engineer (CPM) Rajasthan Pollution Control Board, 4, Institutional Area, Jhalana Doongari, Jaipur, (Rajasthan)

Dear Sir,

Sub.: - Environmental Statement for the year 2020-2021

With reference to above subject, we are enclosing herewith an Environmental Statement Report of Unit-III of M/s Mangalam Cement Ltd., Morak for the period from April-2020 to March-2021.

This is for your kind reference please. Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully

For Mangalam Cement Ltd. (Unit-III)

P. R. Chaudhary Sr. Joint President (O) & FM

Cc to: - The Regional Officer Rajasthan Pollution Control Board Plot No. Spl. 2A, ParyavaranMarg Road No. 6, IndraprasthaIndl. Area Kota - 324005

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FORM-V ENVIRONMENTAL STATEMENT (See rule 14) Environmental Statement for the financial year ending with 31stMarch 2021

	PART-A				
1.	Name & address of the owner/	Shri K.C.Jain (Director)			
	occupier of the industry/ operation	Mangalam Cement Itd. (Unit-III)			
	or process	Aditya Nagar, Village : Morak			
		Distt: Kota (Raj.)			
		Pin code : 326520			
2.	Industry Category	Red Category			
	Primary – (STC Code)				
	Secondary – (STC Code)				
3.	Production capacity	Cement : 6000 TPD			
4.	Year of establishment	2013			
5.	Date of last environmental	17.09.2020			
	statement submitted				

PART –B

Water and Raw Material Consumption:

i. Water consumption in m^3/d

Process: NA (As plant is based on Dry process technology)

Cooling: 51.25 M3/day

Domestic: 346.71 M3/Day, which is common for Unit –I, II, III & CPP- I & II and colonies.

	Process water consumption per unit of products		
Name of Products	During the previous	During the current financial	
	financial year (2019-2020)	Year (20209-2021)	
1. Cement	0.0280	0.0184	

ii. Raw material consumption

Name of raw	Name of product	Consumption of raw material per unit of		
materials*		output		
		During previous financial	During Current financial	
		year (2019-2020) year (2020-202		
1. Fly ash	PPC Cement	0.316	0.312	
2. Gypsum	OPC & PPC Cement	0.062	0.0615	
3. Kota Stone Slurry	OPC Cement	0.056	0.050	
4. Grinding Add	PromaxX Cement	-	0.010	

*Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

iii) Power Consumption (KWH/T of Cement):-

During Previous Financial Year (2019-2020)	During Current Financial Year (2020-2021)	
25.86 Unit / Tone of Cement	24.48 Unit / Tone of Cement	

iv) Total Production (MT):-

Production	During Previous Financial Year (2019-2020)	During Current Financial Year (2020-2021)
Cement (OPC+PPC)	947339	1016840

PART-C

Pollution discharged to environment/unit of output

(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants	Concentration of	Percentage of variation from		
	discharged(mass/day)	Pollutants in	prescribed standards with		
		discharged(mass/volu	reasons.		
		me)			
a) Water	As the plant is being oper	rated on dry process te	chnology, total process water		
	recycled, no liquid effluent is	cycled, no liquid effluent is generated from the cement plant.			
b) Air	0.003 Ton / Day	13.77 mg/Nm ³	No any deviation		

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management, Handling & Transboundary Movement Rules, 2016).

Hazardous Wastes	Total Quantity (Kg)			
	During previous financial year (2019-2020)		During Current financial year (2020- 2021)	
 From Process (Cement Manufacturing is 	We have Authorization Hazardous waste Managem Handling for Unit – III,	ave Authorization for We have Authorization for Hazardous us waste Management & waste Management & Handling for for Unit – III, Unit – III,		
based on "Dry Process" no Hazardous waste is	Total Quantity Generated from April 2019 to March 2020 (Ltrs.)	0.0	Total Quantity Generated from April 2020 to March 2021 (Ltrs.)	0.0
generated form the	Old stock (Ltrs.)	NIL	Old stock (Ltrs.)	NIL
process except used oil which is drained from Machinery /	Total Used Oil (Ltrs.)	0.0	Total Used Oil (Ltrs.)	0.0
	Sold–out to registered recycler (Ltrs.)	0.0	Sold–out to registered recycler (Ltrs.)	0.0
Lquipments)	Balance Quantity (Ltrs.)	NIL	Balance Quantity (Ltrs.)	NIL
Chemical Gypsum	NIL		NIL	
Waste Mix Liquid & Solid	NIL		NIL	
2. From pollution control facilities	NA		NA	

SOLID WASTES:

Solid Wastes	Total Quantity (Kg)		
	During previous financial year	During Current financial year	
	(2019-2020)	(2020-2021)	
1. From Process	NIL NIL		
2. From pollution control	Dust Collected in the ESP's, bag house and bag filters are		
facilities	recycled to the system		
2. i) Quantity recycled or	100 %	100 %	
reutilised within the unit.			
ii) Solid	NIL	NIL	
iii) Disposed	NIL	NIL	

PART – F

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

Battery Wastes:-

As specified under Batteries (Management and Handling) Amendment Rules, 2010. We have purchased following new batteries of different categories is common for Cement Plant Unit I, II, III and Captive Power Plant Unit I & II and Mines-

Number of new batteries of categories purchased from the		During 1 st April 2020 to 31 st
manufacturer / importer / dealer or any other agency.		March 2021.
Common for Cement Plant Unit I	, II, III and Captive Power Plant	Unit I & II and Mines
Category	i) No. Of Batteries	ii) Approximate weight (In
		metric Tonnes)
i) Automotive		
a) Four Wheeler 48		1.595
ii) Industrial		
a) UPS	507	5.030
Total	555	6.625

Number of used batteries of cate	During 1 st April 2020 to 31 st	
and Tonnage of scrap sent manufacturer / dealer / importer /		March 2021.
registered recycler / or any oth	er agency to whom the used	
batteries scrap was sent.		
Common for Cement Plant Unit I	, II, III and Captive Power Plant	Unit I & II and Mines
Category iii) No. Of Batteries		iv) Approximate weight (In
		metric Tonnes)
i) Automotive	131	
a) Four Wheeler		
ii) Industrial	314	7.714 MT
a) UPS		
Total	445	7.714 MT

Used battery scrap was sent to CPCB authorized recycler

Hazardous wastes

Cement manufacturing is based on "Dry Process". No Hazardous waste is generated from the process except used oil which is drained from Machineries / Equipments. The used oil & lead acid batteries are sold to CPCB authorized recyclers.

Bio-Medical Wastes:

Bio-Medical waste generated is common for Cement Plant, Power Plant and Mines during Period of January 2020 to December 2020under the Bio-medical Waste Management Rules 2016 & its Amendments are as follows.

Year	Bio-Medical Waste Quantity (Kg) as per Colour Coding			
	Red	Blue	Yellow	White
1 st Jan. 2020 to 31 st Dec. 2020	1.184	1.109	5.359	0.152

E- Wastes:-

E- Waste disposal is common for Cement Plant, Power Plant and Mines during financial year 2019-2020 and 2020-2021 under the E-Waste (Management) Rules 2016 & its Amendments are as follows.

	Total Quantity Disposed					
	During Previous Financial Year	During Previous Financial Year				
	(2019-2020)	(2020-2021)				
E-waste disposed	466 kg	NIL				

E-waste was sent to CPCB authorized recycler.

PART-G

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

M/s Mangalam Cement Limited is being operated on dry process technology, which is cost effective and environmentally clean technology. The stack emissions from the plant are controlled by equipment like ESPs & Bag Houses. Bag filters installed at various material transfer points to clean the process and arrest the fugitive emissions.

The particulate matter collected in the pollution control equipment is recycled in process and neutralizing the cost of operation of pollution control equipment and hence no cost impact on the production cost.

PART – H

Additional measures/investment proposal for environmental protection including abatement of pollution.

Green belt development and tree plantation is our ongoing process. In the year 2020-2021 we have planted 470 No's of native species and up to March 2021, 131154 trees have been planted in premises of Unit – I, II, III, CPP – I, CPP – II and colonies.

MISCELLANEOUS:

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

- 1. We have full-fledged Environment Department with three separate cells, for monitoring, maintenance of pollution control equipment and Green Belt development.
- 2. Monitoring of stack emission and ambient air and water quality is being done regularly.
- 3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
- 4. Civil Department is taking care of Housekeeping, water supply & operation of STPs.
- 5. Horticulture Department is taking care of tree plantation and green belt development. Every year we are doing tree plantation.

We are enclosing herewith following documents:-

Annexure – 1:- Stack Emission Monitoring Test Reports Annexure – 2:- Ambient Air Quality (PM10, PM2.5, NOx and SO2)

M/s Mangalam Cement Ltd. Unit-III

Stack Monitoring Report

Period: 2020-2021

S. No.	Month	Cement Mill-III					
Prescri	bed Standards (in mg/NM3)	30 Mg/Nm3					
1	Apr-20	19.82					
2	May-20	11.50					
3	Jun-20	10.70					
4	Jul-20	11.60					
5	Aug-20	14.60					
6	Sep-20	13.25					
7	Oct-20	18.35					
8	Nov-20	11.85					
9	Dec-20	11.86					
10	Jan-21	13.10					
11	Feb-21	13.70					
12	Mar-21	14.90					
	Average	13.77					
	Min.	10.70					
	Max.	19.82					

MANGALAM CEMENT LIMITED, MORAK, DIST: KOTA AMBIENT AIR QUALITY (All values in µg/m3) Year : 2020-21

Location	Near Railway Gate					Near Work Shop				Near Rack Loading Area				Near Security gate						
Month	PM 10	PM 2.5	SO2	NOx	со	РМ 10	PM 2.5	SO2	NOx	СО	PM 10	PM 2.5	SO2	NOx	СО	РМ 10	PM 2.5	SO2	NOx	со
Limits	100	60	80	80	4000	100	60	80	80	4000	100	60	80	80	4000	100	60	80	80	4000
Apr-20		1					1							1			1			
May-20	Not Possible due to COVID-19 Pandemic																			
Jun-20	65.8	35.2	6.7	11.7	241.5	53.5	26.7	6.2	12.1	257.0	63.7	34.5	6.0	12.2	239.9	50.6	27.8	6.2	11.0	281.4
Jul-20	64.3	34.1	6.8	12.5	240.6	54.0	27.7	6.0	10.7	236.9	61.4	32.9	6.9	10.9	275.9	49.7	26.4	6.2	11.1	220.9
Aug-20	58.4	31.2	7.0	12.7	254.0	50.7	26.2	7.0	11.2	262.6	55.8	30.2	6.9	11.2	203.2	48.2	24.9	6.7	11.8	243.8
Sep-20	53.8	27.7	6.2	11.4	233.7	47.8	25.3	6.2	11.1	233.4	53.0	29.0	6.1	11.0	236.2	47.1	24.7	6.0	11.3	231.3
Oct-20	51.6	27.2	6.5	12.0	239.7	45.9	24.8	6.4	11.4	242.2	53.8	28.1	6.5	23.2	232.7	48.9	26.3	6.3	11.4	248.6
Nov-20	52.3	29.3	5.7	11.5	283.7	47.9	27.5	6.8	11.9	247.0	52.9	28.5	5.6	11.4	259.5	49.5	28.0	6.6	11.9	286.0
Dec-20	52.7	28.3	6.4	12.3	322.3	48.1	26.3	6.9	11.3	343.2	51.6	27.0	7.0	11.4	348.7	48.2	27.7	6.5	11.8	335.5
Jan-21	54.3	28.5	6.1	12.5	336.9	49.3	25.8	6.8	11.9	373.7	53.1	29.4	6.8	12.1	307.1	51.7	27.4	6.1	12.5	455.7
Feb-21	56.3	30.6	6.8	13.1	387.6	50.6	26.2	6.5	12.1	364.2	55.5	30.5	6.5	12.9	361.1	47.8	25.4	6.9	13.4	387.6
Mar-21	60.9	31.1	6.6	13.2	373.7	53.6	27.2	6.4	13.6	375.1	60.8	31.2	6.4	13.3	379.3	50.0	26.4	9.1	14.3	482.1
Average	57.0	30.3	6.5	12.3	291.4	50.1	26.4	6.5	11.7	293.5	56.2	30.1	6.5	13.0	284.4	49.2	26.5	6.7	12.0	317.3
Minimum	51.6	27.2	5.7	11.4	233.7	45.9	24.8	6.0	10.7	233.4	51.6	27.0	5.6	10.9	203.2	47.1	24.7	6.0	11.0	220.9
Maximum	65.8	35.2	7.0	13.2	387.6	54.0	27.7	7.0	13.6	375.1	63.7	34.5	7.0	23.2	379.3	51.7	28.0	9.1	14.3	482.1

MANGALAM CEMENT LIMITED, MORAK, DIST: KOTA

AMBIENT NOISE MONITORING REPORT

Year : 2020-21

IT.

		Measured Noise Level (in dBA)												
Date	Near F Ga	Railway ate	Near Wo	ork shop	Neai Loadir	r Rack ng Area	Near Security gate							
	Day	Night	Day	Night	Day	Day Night		Night						
Limits	75.0	70.0	75.0	70.0	75.0	70.0	75.0	70.0						
Apr-20	Not Possible due to COVID-10 Dandomic													
May-20	Not Possible due to COVID-19 Pandemic													
Jun-20	64.9	61.1	62.1	58.6	61.6	57.9	62.1	58.4						
Jul-20	66.2	61.9	62.4	58.1	61.5	57.7	62.5	58.3						
Aug-20	67.4	63.6	66.2	61.9	66.0	62.2	65.4	61.3						
Sep-20	65.8	61.5	64.8	60.9	65.8	61.7	64.5	60.0						
Oct-20	67.8	63.4	66.4	61.9	66.3	62.1	67.3	62.5						
Nov-20	67.6	62.5	66.9	62.4	67.9	62.8	66.3	61.4						
Dec-20	68.8	64.5	68.1	63.3	66.8	61.9	66.1	61.6						
Jan-21	68.8	63.8	65.9	61.1	68.1	63.3	67.8	62.6						
Feb-21	67.4	62.4	66.8	61.8	67.6	62.2	66.5	61.4						
Mar-21	68.0	63.2	68.1	63.4	67.8	63.3	67.9	63.5						
Average	67.3	62.8	65.8	61.3	65.9	61.5	65.6	61.1						
Min	64.9	61.1	62.1	58.1	61.5	57.7	62.1	58.3						
Max	68.8	64.5	68.1	63.4	68.1	63.3	67.9	63.5						