



BK BIRLA GROUP OF COMPANIES

MANGALAM CEMENT LTD.



MANGALAM CEMENT LTD.

REGD. A/D

MCL/ Env. Audit – 117(II)/2025-2026/ 2852 128

Date: 16.09.2025

To

The Environment Engineer (CPP),
Rajasthan Pollution Control Board,
4, Institutional Area, Jhalana Doongari,
District - Jaipur, (Rajasthan)

Subject: Submission of Annual Environment Statement Report in Form-V for the period from Apr-2024 to Mar-2025 (FY 2024-25) of UNIT-1 Including Colony & Health Care Facility of M/s Mangalam Cement Ltd., P.O. Aditya Nagar, Morak, Distt. Kota, Rajasthan -326520

Ref: As per Issued Board CTO & Environment Protection Act, 1986.

Dear Sir,

With reference to the above subjected matter, in this regard, submitting herewith an Environment Statement Report in form-V for the period from Apr-2024 to Mar-2025 (FY 2024-25) of Unit-I including both Colonies & Health Care Facility of M/s Mangalam Cement Ltd., situated at P.O. Aditya Nagar, Morak, District - Kota, Rajasthan.

This is for your kind information and record please. Kindly acknowledge the receipt of the same.

Thanking you,
Yours faithfully

For Mangalam Cement Ltd. (UNIT-I)


P. R. Chaudhary

Sr. Joint President (O) & FM

Cc to: - The Regional Officer,
Rajasthan Pollution Control Board,
Plot No. SPL. 2A, Paryavaran Marg, Road No. 6,
Indraprastha Industrial Area, Kota – 324005

 
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ENVIRONMENT STATEMENT REPORT

(FORM-V)

FY 2024-25

CEMENT PLANT UNIT - I

MANGALAM CEMENT LTD.

P. O. ADITYA NAGAR, MORAK,

DISTT. KOTA, RAJASTHAN – 326520

FORM-V
ENVIRONMENTAL STATEMENT

(See rule 14)

Environmental Statement for the financial year ending with 31st March 2025 FY: 2024-2025

PART-A

1.	Name & address of the owner/ occupier of the industry/ operation or process	Shri. P. R. Choudhary Sr. Joint President (O) & FM Mangalam Cement Ltd. (Unit-I) Aditya Nagar, Village: Morak Distt: Kota (Raj.) Pin code: 326520
2.	Industry Category Primary – (STC Code) Secondary – (STC Code)	Red Category
3.	Production capacity	Cement :- 1.7 MTPA Clinker :- 1.35 MTPA
4.	Year of establishment	1981
5.	Date of last environmental statement submitted	14.09.2024

PART –B

Water and Raw Material Consumption:

I. Water consumption in m³/day

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

Cooling: - 176.77 M³/day

Domestic: - 148.82 M³/Day, which is common for Unit – I, II, III & CPP – I & II and colonies.

Name of Products	Process water consumption per unit of products	
	During Previous financial Year (2023-2024)	During the current financial Year (2024-2025)
1. Cement	0.054	0.079
2. Clinker	0.033	0.048

II. Raw material consumption (Cement Plant)

Name of raw materials*	Name of product	Consumption of raw material per unit of output	
		During Previous financial Year (2023-2024)	During the current financial Year (2024-2025)
1. Morak lime stone	Cement	1.2458	1.2406
2. High grade lime stone		0.1476	0.1595
3. Fly ash		0.345	0.345
4. Gypsum		0.070	0.069
5. Blue dust/ Red Ochre/ Laterite/ etc.		0.087	0.0799
6. Coal		0.0517	0.0213
7. Pet Coke		0.052	0.082
8. Waste Stone slurry		0.050	0.050
9. Bio Mass		0.0	0.0
10. Waste Mix Liquid and Solid		0.00002	0.0036
11. Plastic Waste		0.0	0.0
12. Grinding Aid		0.0009	0.0009

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

Raw Material Consumption (D.G. Set)

Name of raw materials*	Name of product	Consumption of raw material (Ltr)	
		During Previous financial Year (2023-2024)	During the current financial Year (2024-2025)
H. S. Diesel	Power	1735	1676

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

During Previous Financial Year	During Current Financial Year
57.41	65.41

iv) Total Production (MT):-

Production	During Previous Financial Year	During Current Financial Year
Clinker	1344920	1344437
Cement	825157.24	821512.066

Total Power Generation (DG Set) (KWh)

Production	During Previous Financial Year	During Current Financial Year
Power Generation	679	300

PART-C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

Pollutants	Parameter	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants in discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
a) Water	As the plant is being operated on dry process technology, total process water recycled, no liquid effluent is generated from the cement plant.			
b) Kiln Main Stack	PM	0.137 Ton / day	19.59 mg/Nm ³	No any deviation
	SO ₂	0.122 Ton / day	18.13 mg/Nm ³	No any deviation
	NO _x	4.535 Ton / day	646.12 mg/Nm ³	No any deviation
c) Clinker Cooler Stack	PM	0.092 Ton / day	19.39 mg/Nm ³	No any deviation
d) Coal Mill Stack	PM	0.025 Ton / day	14.62 mg/Nm ³	No any deviation
e) Cement Mill	PM	0.010 Ton / day	15.46 mg/Nm ³	No any deviation

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (M, H& Transboundary Movement Rules, 2016).

Hazardous Wastes	Total Quantity			
	During Previous financial Year (2023-2024)		During the current financial Year (2024-2025)	
1. From Process (Cement Manufacturing is based on "Dry Process" no Hazardous waste is generated from the process except used oil which is drained from Machinery/ Equipment)	We have Authorization for Hazardous waste Management & Handling for Unit – I, CPP-I & II, D.G. set, Mines		We have Authorization for Hazardous waste Management & Handling for Unit – I, CPP-I & II, D.G. set, Mines	
	Total Quantity Generated from April 2023 to March 2024 (Ltrs.)	11000	Total Quantity Generated from April 2024 to March 2025 (Ltrs.)	4800
	Old stock (Ltrs.)	NIL	Old stock (Ltrs.)	NIL
	Total Used Oil (Ltrs.)	11000	Total Used Oil (Ltrs.)	4800
	Sold-out to registered recycler (Ltrs.)	11000	Sold-out to registered recycler (Ltrs.)	4800
	Balance Quantity (Ltrs.)	NIL	Balance Quantity (Ltrs.)	NIL
Chemical Gypsum	NIL		NIL	
Waste Mix Liquid & Solid	NIL		3808.19	
Waste Mix Solid	NIL		1006.51	
Plastic Waste	NIL		NIL	

Agro Waste	NIL	NIL
Cotton Waste	NIL	710 KG
Iron Sludge	NIL	NIL
2. From pollution control facilities	NA	NA

PART-E

SOLID WASTE

Solid Wastes	Total Quantity (Kg)	
	During previous financial year (2023-2024)	During Current financial year (2024-2025)
1. From Process	NIL	NIL
2. From pollution control facilities	Dust Collected in the ESP's, bag house and bag filters are recycled to the system	
3. i) Quantity recycled or reutilised within the unit.	100 %	100 %
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 manufacturer / importer / dealer or any other agency.		During 1 st April 2024 to 31 st March 2025.
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	81	2.287
ii) Industrial		
a) UPS	161	1.618
Total	242	3.905

Number of used batteries of categories mentioned in Sl. No. 3 and Tonnage of scrap sent manufacturer / dealer / importer / registered recycler / or any other agency to whom the used batteries scrap was sent.		During 1 st April 2024 to 31 st March 2025.
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	NIL	NIL
a) Four Wheeler		
ii) Industrial	NIL	
a) UPS		
Total	NIL	NIL

Used battery scrap was sent to CPCB authorized recycler

Hazardous wastes

No Hazardous waste is generated from the process except used oil which is drained from Machineries / Equipment. 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 2024 to December 2024 under 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. 2024 to 31 st Dec. 2024	16.723	11.234	16.039	1.604

E- Wastes:-

E- Waste disposal is common for Cement Plant, Power Plant and Mines during financial year 2023-2024 and 2024-2025 under the E-Waste (Management) Rules 2016 & its Amendments are as follows.

	Total Quantity Disposed	
	During previous financial year (2023-2024)	During Current financial year (2024-2025)
E-waste disposed	180.00 kg	3100.00 kg

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 advantage of dry process is also in fuel economy. 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 on-going process. We have planted 702 No's of native species and up to March 2025, 133429 trees have been planted in premises of Unit – I, II, III, CPP – I, CPP – II and colonies.

PART –I

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)

Annexure – 3:- Analysis Report of Treated Domestic Waste Water.

M/s Mangalam Cement Ltd.

Unit-I

Stack Monitoring Report
(All values are in Mg/Nm³)Period: 2024-2025

S. No.	Month	Kiln-I Stack			Cooler-I	Cement Mill-I	Vertical Coal Mill-I
		PM	SO2	NOx			
Prescribed Standards		30	100	800	30	30	30
1	Apr-24	16.20	22.20	670.00	15.40	19.10	13.10
2	May-24	21.50	28.50	630.20	20.75	14.30	11.10
3	Jun-24	21.80	20.40	700.20	18.30	13.80	12.30
4	Jul-24	20.70	33.30	695.60	23.50	14.00	12.40
5	Aug-24	20.10	35.10	680.50	23.20	14.50	14.40
6	Sep-24	20.30	3.10	665.20	21.60	14.10	18.50
7	Oct-24	21.00	7.20	640.30	23.00	14.40	15.80
8	Nov-24	21.50	8.00	740.20	23.80	9.80	17.10
9	Dec-24	21.20	10.30	630.20	12.90	18.50	13.90
10	Jan-25	16.30	8.70	670.20	15.70	18.20	13.80
11	Feb-25	16.20	20.60	410.20	16.50	17.70	13.85
12	Mar-25	18.30	20.20	620.60	18.00	17.10	19.20
Average		19.59	18.13	646.12	19.39	15.46	14.62
Min		16.20	3.10	410.20	12.90	9.80	11.10
Max		21.80	35.10	740.20	23.80	19.10	19.20

MANGALAM CEMENT LIMITED, MORAK, DIST: KOTA

AMBIENT AIR QUALITY (All values in µg/m³)

(Year: 2024-25)

Location Month	Near Railway Gate					Near Work Shop					Near Rack Loading Area					Near Security gate				
	PM 10	PM 2.5	SO ₂	NO _x	CO	PM 10	PM 2.5	SO ₂	NO _x	CO	PM 10	PM 2.5	SO ₂	NO _x	CO	PM 10	PM 2.5	SO ₂	NO _x	CO
Limits	100	60	80	80	4000	100	60	80	80	4000	100	60	80	80	4000	100	60	80	80	4000
Apr-24	64.2	33.6	5.3	10.3	364.2	69.5	36.7	8.3	13.3	386.1	57.4	32.3	8.4	13.7	368.9	68.4	41.0	10.6	15.8	400.1
May-24	60.1	28.3	4.6	10.0	361.2	67.7	32.7	5.8	13.5	603.0	58.1	29.4	4.4	11.8	359.9	69.2	34.7	8.0	13.8	371.0
Jun-24	58.5	28.8	4.2	9.9	390.4	64.9	35.5	6.3	12.7	373.7	59.3	32.7	6.6	11.5	366.8	69.5	40.5	9.1	15.5	402.9
Jul-24	59.5	30.2	4.4	9.4	354.3	59.7	33.6	4.3	10.8	423.8	51.5	30.8	5.4	10.3	416.8	60.0	38.2	6.6	10.9	444.6
Aug-24	49.3	29.1	5.0	11.0	328.2	53.9	32.1	4.6	11.0	359.5	48.7	28.3	5.5	10.9	372.0	55.9	35.9	6.1	11.3	328.2
Sep-24	63.1	27.8	4.4	11.2	359.5	67.2	30.3	4.8	11.5	382.9	56.0	26.9	5.0	11.0	390.8	70.5	34.8	6.1	12.1	382.9
Oct-24	65.5	28.9	5.4	11.8	340.4	69.8	32.2	5.7	12.6	354.3	63.0	30.1	6.1	11.6	354.3	75.0	38.1	7.8	13.2	361.2
Nov-24	66.7	30.5	5.3	11.9	347.3	71.9	31.5	5.9	13.6	340.4	65.1	29.9	5.4	11.7	382.1	75.1	35.5	7.7	14.8	368.2
Dec-24	65.4	31.5	6.0	12.8	399.0	71.2	33.5	5.9	16.6	334.8	68.4	31.8	6.7	16.5	391.8	76.8	37.5	12.2	23.0	361.2
Jan-25	63.9	32.7	5.3	11.9	337.6	70.1	34.6	7.1	14.8	343.2	66.6	35.1	5.9	13.6	354.3	76.7	40.4	14.3	21.0	377.9
Feb-25	61.4	32.5	5.9	11.8	343.9	69.3	36.2	5.3	14.9	336.1	62.9	30.7	6.0	12.5	357.9	75.3	41.1	14.4	17.8	336.1
Mar-25	62.2	33.2	5.0	12.7	333.5	72.6	36.9	7.7	14.5	355.7	64.5	32.4	8.0	15.3	358.5	79.3	43.8	17.6	23.3	382.1
Average	61.6	30.6	5.1	11.2	355.0	67.3	33.8	6.0	13.3	382.8	60.1	30.9	6.1	12.5	372.8	71.0	38.5	10.0	16.0	376.4
Minimum	49.3	27.8	4.2	9.4	328.2	53.9	30.3	4.3	10.8	334.8	48.7	26.9	4.4	10.3	354.3	55.9	34.7	6.1	10.9	328.2
Maximum	66.7	33.6	6.0	12.8	399.0	72.6	36.9	8.3	16.6	603.0	68.4	35.1	8.4	16.5	416.8	79.3	43.8	17.6	23.3	444.6

MANGALAM CEMENT LIMITED, MORAK, DIST: KOTA

AMBIENT AIR QUALITY (All values in $\mu\text{g}/\text{m}^3$)

(Year : 2024-25)

Location Month	Near Railway Gate		Near Work Shop		Near Rack Loading Area		Near Security gate	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Limits	75	70	75	70	75	70	75	70
Apr-24	64.2	33.6	33.6	10.3	57.4	32.3	68.4	41.0
May-24	60.1	28.3	28.3	10.0	58.1	29.4	69.2	34.7
Jun-24	58.5	28.8	28.8	9.9	59.3	32.7	69.5	40.5
Jul-24	59.5	30.2	59.5	30.2	51.5	30.8	60.0	38.2
Aug-24	49.3	29.1	49.3	29.1	48.7	28.3	55.9	35.9
Sep-24	63.1	27.8	63.1	27.8	56.0	26.9	70.5	34.8
Oct-24	65.5	28.9	65.5	28.9	63.0	30.1	75.0	38.1
Nov-24	66.7	30.5	66.7	30.5	65.1	29.9	75.1	35.5
Dec-24	65.4	31.5	65.4	31.5	68.4	31.8	76.8	37.5
Jan-25	62.6	53.2	65.5	54.4	65.6	55.6	67.2	56.7
Feb-25	64.3	53.9	65.3	54.5	65.2	54.8	66.7	56.1
Mar-25	63	52.7	65.4	55.1	65.9	55.1	68	56.7
Average	61.8	35.7	54.7	31.0	60.3	36.5	68.5	42.1
Minimum	49.3	27.8	28.3	9.9	48.7	26.9	55.9	34.7
Maximum	66.7	53.9	66.7	55.1	68.4	55.6	76.8	56.7

M/S Mangalam Cement Ltd - Morak, Kota (Rajasthan)									
Basant Vihar Colony STP Outlet : (2024-2025)									
Parameters	PH (at 25 'c)	COD	BOD (3 days at 27'c)	TSS	Oil and Grease	Total Residue Chlorine	Ammonical Nitrogen as N	Nitrate as NO3	Fecal Coliform MPN/100 ml
Permissible Limits	(5.5 to 9.0)	(250 Mg/L)	(30 Mg/L)	(100 Mg/L)	(10 Mg/L)	(1.0 Mg/L)	(50 Mg/L)	(50 Mg/L)	(<1000)
Average Result (April-2024 to March-2025)	7.31	35.78	7.22	9.36	5.95	0.33	2.83	2.50	49.58

M/S Mangalam Cement Ltd - Morak, Kota (Rajasthan)									
Sarvoday Vihar Colony STP Outlet: (2024-2025)									
Parameters	PH (at 25 'c)	COD	BOD (3 days at 27'c)	TSS	Oil and Grease	Total Residue Chlorine	Ammonical Nitrogen as N	Nitrate as NO3	Fecal Coliform MPN/100 ml
Permissible Limits	(5.5 to 9.0)	(250 Mg/L)	(30 Mg/L)	(100 Mg/L)	(10 Mg/L)	(1.0 Mg/L)	(50 Mg/L)	(50 Mg/L)	(<1000)
Average Result (April-2024 to March-2025)	7.27	39.69	8.66	12.97	5.37	0.55	3.74	2.45	44.25