BK BIRLA GROUP OF COMPANIES

MANGALAM CEMENT LTD.

MANGALAM CEMENT LTD.

REGD. A/D

MCL/ Env. Audit – 117(II)/2025-2026/ 2249/31

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 Captive Power Plant (CPP-1) 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 Captive Power Plant (CPP-1) 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. (CPP-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

Regd. Office & Works : P.O. Aditya Nagar-326520, Morak, Distt. Kota (Raj.) CIN : L26943RJ1976PLC001705, Telefax : 07459 - 232156
Website : www.mangalamcement.com, E-mail : email@mangalamcement.com
Kota Office : Shop No. 20, 80 Feet Road, Opp. Sukhdham Colony, (Near SBI Bank) Kota - 324001 (Rajasthan)
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ENVIRONMENT STATEMENT REPORT

(FORM-V)

FY 2024-25

CAPTIVE POWER PLANT

UNIT – 1

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: 2024-25

PART-A

1.	Name & address of the owner / occupier of the industry / operation or process	Shri. P. R. Choudhary Sr. Joint President (Operation) & FM M/s Mangalam Cement ltd. Captive Power Plant (CPP-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	Power: 17.5 MW
4.	Year of establishment	2007
5.	Date of Last Environmental Statement Submitted	14.09.2024

PART –B

Water and Raw Material Consumption:

i. Water consumption in M^3/d

Process: } 177.92 M^3/day which is common for CPP – I & II
Cooling: }

Domestic: 148.82 M^3/Day, which is common for Unit – I, II, III, CPP- I, CPP – II and colonies

Name of Products	Process Water Consumption Per Unit of Products	
	During the Previous FY 2023-24	During the Current FY 2024-25
1. Power (CPP I & II)	0.0006 KL/KWh	0.0005 KL/KWh

ii.Raw material consumption

Name of raw materials*	Name of product	Consumption Of Raw Material Per Unit of Output	
		During the Previous FY 2023-24	During the Current FY 2024-25
1. Coal	Power (CPP-I)	0.852 Kg/Unit	0.845 Kg/unit
2. Bio-Mass	Power (CPP-I)	0.0811 Kg/Unit	0.0775 Kg/unit
3. Water	Power (CPP-I & II)	0.0006 KL/ KWH	0.0005 KL/KWh

*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/KWH): -

During Previous FY 2023-24	During Current FY 2024-25
0.107	0.108

iv) Total Production (KWH):-

Production	During Previous FY 2023-24	During Current FY 2024-25
Power Generation	35363000	61571000

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	We are maintaining zero water discharge in our power plant & cement plant. During the FY 2024-25, 5475 KL waste water generated from power plant (CPP-I & II), which is being used 100% in our own plant for horticulture purpose after treatment in Neutralization pit.			
b) CPP-I	**FY 2024-25**			
	PM	0.089 Ton / day	32.91 mg/Nm^3	No Any Deviation
	SO2	0.882 Ton / day	306.73 mg/Nm^3	No Any Deviation
	NOx	0.677 Ton / day	307.83 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 form 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
Agro Waste	5515.88 MT		4769.00 MT	

2. From pollution control facilities	NA	NA

PART – E

SOLID WASTES:

Solid Wastes	Total Quantity –CPP-I & II (Ton)	
	During previous financial year (2023-2024)	During Current financial year (2024-2025)
1. From Process	Bed Ash: 7248.53	Bed Ash: 8984.601
2.From pollution control facilities	Fly Ash: 29025.16	Fly Ash: 35931.34
2. i) Quantity recycled or reutilised within the unit.	Fly Ash & Bed Ash generated from our both Captive Power Plants (CPP-I & II) are being 100% utilized in our existing cement plants for cement manufacturing. Dust Collected in the Bag filters are being 100% recycled into the system.	
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 1st April 2024 to 31st 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 1st April 2024 to 31st 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 aut6horized 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.

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.

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
1st Jan. 2024 to 31st Dec. 2024	16.723	11.234	16.039	1.604

PART-G

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

Captive Power Plant is being operated on environmentally clean technology. The stack emissions from the plant are controlled by ESP's. Bag Filters are installed at various material transfer points to clean the process and arrest the fugitive emissions. The boiler Ash collected in the pollution control equipment is used in the process of existing cement plants, thus it can be said that the utilization of raw material is being done at their cost. Since the system is operated on total recycle, there is no effect on the cost of production.

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 and 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 Effluent Waste Water.

Annexure-I

M/s Mangalam Cement Ltd.
(CPP-I)
Stack Monitoring Report
(All values are in Mg/Nm3)
Period: 2024-2025

S. No.	Month	Main ESP Stack (CPP-I)		
Prescribed Standards (in mg/NM3)		PM	SO2	NOx
		50	600	450
1	Apr-24	33.20	390.20	347.00
2	May-24	31.00	348.50	290.20
3	Jun-24	28.40	346.50	425.20
4	Jul-24	NR	NR	NR
5	Aug-24	NR	NR	NR
6	Sep-24	NR	NR	NR
7	Oct-24	32.00	121.20	233.20
8	Nov-24	34.70	320.20	350.20
9	Dec-24	34.55	360.20	268.50
10	Jan-25	36.50	260.30	240.50
11	Feb-25	NR	NR	NR
12	Mar-25	NR	NR	NR
Average		**32.91**	**306.73**	**307.83**
Min		28.40	121.20	233.20
Max		36.50	390.20	425.20

N.R:- Not Running

Annexure – II

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	SO2	NOx	CO	PM 10	PM 2.5	SO2	NOx	CO	PM 10	PM 2.5	SO2	NOx	CO	PM 10	PM 2.5	SO2	NOx	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 µg/m3)

(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**

Annexure-III

M/S Mangalam Cement ltd - Morak											
Neutralization Pit Outlet (Trade Effluent) : (2024-2025)											
Sr. No.	Month	Parameters									
		PH	COD	BOD (3 days at 27'c)	TSS	Oil and Grease	Free Available chlorine	Phosphate	Chromium (Total)	Copper	Iron	Zinc
Permissible Limits		(6.5 to 8.5)	(250 Mg/L)	(30 Mg/L)	(100 Mg/L)	(10 Mg/L)	(0.5 Mg/L)	(5.0 Mg/L)	(0.2 Mg/L)	(1.0 Mg/L)	(1.0 Mg/L)	(1.0 Mg/L)
Average Result (April-2024 to March-2025)		7.23	58.62	14.45	31.44	B.D.L	B.D.L	0.69	B.D.L	B.D.L	0.10	B.D.L

B.D.L : Below detectable limit