

# 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

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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 31stMarch 2025 FY: 2024-25

#### PART-A

1		LANT A
1.	Name & address of the owner /	Shri. P. R. Choudhary
	occupier of the industry / operation	Sr. Joint President (Operation) & FM
	or process	M/s Mangalam Cement ltd.
		Captive Power Plant (CPP-I)
		Aditya Nagar, Village: Morak
		Distt: Kota (Raj.)
		Pin code: 326520
2.	Industry Category	Red Category
	Primary – (STC Code)	
	Secondary – (STC Code)	
3.	Production capacity	Power: 17.5 MW
4.	Year of establishment	2007
5.	Date of Last Environmental	14.09.2024
	Statement Submitted	

#### 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: \int

Domestic: 148.82 M³/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		
1. D	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	Name of product	Consumption Of Raw Material Per Unit of Output		
materials*		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): -

<b>During Previous FY 2023-24</b>	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 Concentration	of Percentage of variation		
		Pollutants discharge		B- C. Tariación		
		mass/day)	(mass/volume)	standards with reasons.		
a) Water	We are ma	ntaining zero water o				
	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					
	Neutralizati	on pit.	,	mpood after treatment in		
b) CPP-I			FY 2024-25			
	PM	0.089 Ton / day	32.91 mg/Nm <sup>3</sup>	No Any Deviation		
	SO2	0.882 Ton / day	306.73 mg/Nm <sup>3</sup>	No Any Deviation		
	NOx	0.677 Ton / day	307.83 mg/Nm <sup>3</sup>	No Any Deviation		

#### **PART-D**

#### **HAZARDOUS WASTES**

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

	, , , , , , , , , , , , , , , , , , , ,	Socurraci	y Movement Rules, 2016).	
	Total Quantity			
Hazardous Wastes	During Previous financial		During the current financial	
	Year (2023-2024)		Year (2024-2025)	
1. From Process	We have Authorization for Hazardous		We have Authorization for	Hazardous
(Cement	waste Management & Hand	dling for	waste Management & Ha	
Manufacturing is	Unit – I, CPP-I & II, D.G. set, N	lines	Unit – I, CPP-I & II, D.G. set,	_
based on "Dry	Total Quantity Generated	11000	Total Quantity Generated	4800
Process" no	from April 2023 to March		from April 2024 to March	
Hazardous waste is	2024 (Ltrs.)		2025 (Ltrs.)	
generated form the	Old stock (Ltrs.)	NIL	Old stock (Ltrs.)	NIL
process except	Total Used Oil (Ltrs.)	11000	Total Used Oil (Ltrs.)	4800
used oil which is	Sold-out to registered	11000	Sold-out to registered	4800
drained from	recycler (Ltrs.)		recycler (Ltrs.)	,555
Machinery/	Balance Quantity (Ltrs.)	NIL	Balance Quantity (Ltrs.)	NIL
Equipment)	7.		- a.aoc Quantity (Etro.)	INIL
Agro Waste	5515.88 MT		4769.00 MT	

2. From pollution	NA	NA
control facilities		

#### PART - E

#### **SOLID WASTES:**

Solid Wastes	Total Quantity –CPP-I & II (Ton)		
	During previous financial year	During Current financial year	
	(2023-2024)	(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	
<ol><li>i) Quantity recycled or reutilised within the unit.</li></ol>	& II) are being 100% utilized in oui	our both Captive Power Plants (CPP-I r existing cement plants for cement e Bag filters are being 100% recycled	
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 ca	ategories purchased from the	During 1st April 2024 to 31st
manufacturer / importer / deale	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

egories mentioned in Sl. No. 3	During 1st April 2024 to 31st
ufacturer / dealer / importer /	March 2025.
er agency to whom the used	
a Tale ( ) No les l'elementation de l'attribute de	
, II, III and Captive Power Plant	Unit I & II and Mines
iii) No. Of Batteries	iv) Approximate weight (In
	metric Tonnes)
NIL	
	NIL
NIL	
NIL	NIL
	er agency to whom the used , II, III and Captive Power Plant iii) No. Of Batteries  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-Medica	Waste Quanti	ty (Kg) as per Co	lour Coding
	Red	Blue	Yellow	White
1 <sup>st</sup> Jan. 2024 to 31 <sup>st</sup> 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.

# 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 (CP	P-I)
	ed Standards	PM	SO2	NOx
(in m	g/NM3)	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
Ave	rage	32.91	306.73	307.83
M	lin	28.40	121.20	233.20
M	ax	36.50	390.20	425.20

N.R:- Not Running

# MANGALAM CEMENT LIMITED, MORAK, DIST: KOTA AMBIENT AIR QUALITY (All values in µg/m3)

(Year: 2024-25)

PM         PM         SO2         NOX         CO         PM           100         60         80         80         4000         100           64.2         33.6         5.3         10.3         364.2         69.5           60.1         28.3         4.6         10.0         361.2         69.5           60.1         28.3         4.6         10.0         361.2         67.7           58.5         28.8         4.2         9.9         390.4         64.9           58.5         28.8         4.2         9.9         390.4         64.9           60.1         28.3         4.4         11.2         359.5         67.2           63.1         27.8         4.4         11.2         359.5         67.2         39           66.7         30.5         5.3         11.9         347.3         71.9         3           66.7         30.5         5.3         11.9         347.3         71.6         3           66.7         31.5         6.0         12.8         399.0         72.6         3           61.6         32.5         5.9         11.2         355.0         72.6         3      <	Location		Near	Railw	Near Railway Gate	te		Near	Near Work Shop	Shop		Z	ear Rac	k Los	ding A	1.09		Moon	2			
100         60         80         90         400         100         60         80         80         400         100         60         80         80         400         100         60         80         80         400         100         60.1         80         80         400         100         60.1         80         80         400         100         60.1         36.2         36.2         36.2         36.2         36.2         36.2         36.2         36.2         36.2         36.2         40         10.0         36.2         60.2         36.2         44         11.2         36.9         69.2         34.7         10.0         10.0         36.2         6.2         12.2         37.2         52.2         32.2         6.2         11.2         37.2         36.2         4.2         10.2         36.2         4.2         13.2         36.2         4.2         10.2         47.2         10.2         37.2         4.2         10.2         37.2         4.2         10.2         37.2         4.2         10.2         37.2         4.2         10.2         37.2         4.2         10.2         38.2         4.2         10.2         38.2         4.2         10.2	Month	PM 10	PM 2.5	SO2			PM 10	PM 2.5	802	NOx	00	PM 10	PM 2.5	S02	NOx	00	PM	PM	Soz	NOx		
642         336         53         103         5642         3673         8673         3861         574         323         84         137         3689         684         137         3689         684         137         3689         684         137         3689         684         137         3689         684         137         3689         684         410         106         116         3612         671         327         58         135         683         384         137         3689         684         117         3699         684         410         106         118         3699         682         44         118         3599         682         487         881         137         667         118         3699         687         118         3699         844         118         3899         847         848         118         848         118         3699         841         118         3899         841         118         3899         841         118         3899         841         118         3899         841         118         3899         841         118         3499         841         148         341         841         841         841 <th>Limits</th> <th>100</th> <th>09</th> <th>80</th> <th>80</th> <th>4000</th> <th>-</th> <th>09</th> <th>80</th> <th>80</th> <th>4000</th> <th>100</th> <th>09</th> <th>80</th> <th>08</th> <th>4000</th> <th>100</th> <th>S. 9</th> <th>08</th> <th>90</th> <th>7007</th> <th></th>	Limits	100	09	80	80	4000	-	09	80	80	4000	100	09	80	08	4000	100	S. 9	08	90	7007	
68.5         28.8         4.6         10.0         36.1         5.7         5.8         13.5         603.0         58.1         29.4         4.4         11.8         59.0         69.2         34.7         8.0         13.8           58.5         28.8         4.2         9.9         390.4         64.9         35.2         6.3         12.7         373.7         59.3         22.7         6.0         11.5         366.8         69.5         40.5         9.0         11.5         366.8         69.5         40.5         11.6         11.6         11.6         11.8         360.8         69.5         40.5         91.0         11.8         40.5         11.0         360.8         69.5         40.5         40.5         11.0         360.8         69.5         40.5         11.0         360.8         69.5         40.5         11.0         360.8         60.0         38.2         60.0         11.0         38.2         39.0         48.7         11.0         350.8         48.7         11.0         38.2         60.1         11.0         38.2         48.1         11.0         38.2         48.1         11.2         38.2         60.1         11.0         38.2         48.1         11.0         3	Apr-24	64.2	33.6		10.3			36.7	8.3	13.3	386.1	57.4	32.3	8.4	13.7	368.9	_	410	10.6	15.8	100	
58.5         28.8         4.2         9.9         990.4         64.9         35.5         6.3         12.7         30.7         6.0         11.5         56.8         69.5         40.5         11.5         66.7         11.5         56.8         69.5         40.5         11.5         66.7         11.5         36.8         69.5         40.5         11.5         66.7         11.5         36.8         69.5         40.5         11.5         66.7         11.5         36.8         69.5         40.5         11.5         36.8         69.5         40.5         11.5         36.8         69.5         40.5         11.5         36.8         36.7         11.5         36.8         36.7         11.5         36.8         36.7         10.5         36.7         36.7         36.8         36.7         36.8         36.7         36.8         36.7         36.8         36.7         36.8         36.7         36.8         36.7         36.8         36.7         36.8         36.8         36.9         36.8         36.9         36.8         36.9         36.8         36.9         36.8         36.9         36.8         36.9         36.8         36.9         36.8         36.9         36.9         36.9         36	May-24	60.1	28.3	4.6			-	32.7	5.8	13.5	603.0	58.1	29.4	4.4	2 2	350 0		27.7	0.01	13.0	400.	
99.5         30.2         4.4         94         354.3         59.7         33.6         4.3         10.8         423.8         51.5         30.8         54.1         10.2         30.2         4.4         94.2         354.3         59.5         48.2         51.5         30.8         54.1         10.2         354.2         60.1         30.8         54.1         10.2         354.2         60.2         35.2         60.1         11.0         359.2         48.7         28.3         55.2         10.9         372.0         55.9         61.1         11.2         359.2         67.2         30.3         48.7         28.3         55.2         11.0         390.8         50.1         11.0         390.8         50.1         11.0         390.8         50.1         11.0         390.8         67.1         11.0         390.8         67.1         11.0         390.8         67.1         11.0         390.8         67.1         11.0         390.8         67.1         11.0         390.8         67.1         11.0         390.8         67.1         11.0         390.8         77.1         11.0         390.8         77.1         11.0         390.8         77.1         11.0         390.8         77.1         11.0	Jun-24	58.5	28.8	4.2	9.9			35.5	6.3	12.7	373.7	59.3	32.7	9.9	11.5	366.8		40.5	0.0	15.5	3/1.0	
49.3         29.1         5.0         11.0         328.2         5.0         4.0         11.0         359.5         48.7         28.3         5.5         10.9         372.0         55.9         35.9         6.1         11.3           65.1         27.8         4.4         11.2         380.5         67.2         38.9         4.8         11.5         382.9         56.0         5.0         11.0         390.8         7.0         38.9         6.0         11.0         390.8         7.0         38.9         6.0         11.0         390.8         7.0         11.0         390.8         6.0         11.0         390.8         6.0         5.0         11.0         390.9         5.0         11.0         382.9         560.9         50.1         11.0         390.8         7.1         11.0         380.8         7.0         12.0         380.9         7.1         11.0         380.9         7.1         11.0         380.8         8.1         11.0         380.8         11.0         380.8         8.1         11.0         380.8         11.0         380.9         11.0         380.9         11.0         380.9         11.0         380.9         11.0         380.9         11.0         380.9 <t< td=""><td>Jul-24</td><td>59.5</td><td>30.2</td><td>4.4</td><td>9.4</td><td>-</td><td>-</td><td></td><td>4.3</td><td>10.8</td><td>423.8</td><td>51.5</td><td>30.8</td><td>5.4</td><td>10.3</td><td>416.8</td><td>0 09</td><td>38.5</td><td>7.7</td><td>10.01</td><td>402.5</td><td></td></t<>	Jul-24	59.5	30.2	4.4	9.4	-	-		4.3	10.8	423.8	51.5	30.8	5.4	10.3	416.8	0 09	38.5	7.7	10.01	402.5	
65.5         28.9         5.4         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         11.0         390.8         70.5         34.8         6.1         11.0         390.8         70.5         34.9         6.0         11.0         390.8         70.5         34.8         6.1         11.0         390.8         70.5         34.8         6.1         11.0         354.3         70.5         34.8         6.1         11.0         354.3         70.5         34.8         6.1         11.0         354.3         70.5         34.8         6.2         11.0         340.4         65.1         12.6         340.4         65.1         20.9         5.4         11.1         382.1         72.1         72.1         72.1         340.8         67.1         340.8         67.1         340.8         67.1         340.8         67.1         440.8         340.8         68.4         31.8         67.1         38.2         37.1         440.8         37.2         37.1         440.8         37.2         37.1         440.8         37.2         37.2         37.2         37.2	Aug-24	49.3	29.1	5.0	11.0		53.9	32.1	4.6	11.0	359.5	48.7	28.3	5.5	10.9	372.0	55.9	35.9	0.0	11.3	326.7	
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         15.0         574.3         75.0 <th< td=""><td>Sep-24</td><td>63.1</td><td>27.8</td><td>4.4</td><td>11.2</td><td></td><td>67.2</td><td></td><td>4.8</td><td>11.5</td><td>382.9</td><td>56.0</td><td>26.9</td><td>5.0</td><td>11.0</td><td>390.8</td><td>70.5</td><td>22.5</td><td>7. 7</td><td>1.7.1</td><td>363.0</td><td></td></th<>	Sep-24	63.1	27.8	4.4	11.2		67.2		4.8	11.5	382.9	56.0	26.9	5.0	11.0	390.8	70.5	22.5	7. 7	1.7.1	363.0	
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           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         76.7         40.4         17.2         33.8         68.4         31.8         6.7         16.5         391.8         76.7         40.4         17.2         35.0         16.6         334.8         68.4         31.8         6.7         16.5         391.8         76.7         40.4         17.8         36.9         71.1         14.8         343.2         66.6         35.1         6.7         16.7         40.4         14.3         21.0         40.1         40.2         35.1         60.0         12.2         357.9         75.3         41.1         14.4         17.8         10.8         35.7         60.1         25.0         12.2         357.9         40.1         14.4         17.8         10.0         12.2         357.9         43.8 <td< td=""><td>Oct-24</td><td>65.5</td><td>28.9</td><td>5.4</td><td>11.8</td><td></td><td>8.69</td><td></td><td>5.7</td><td>12.6</td><td>354.3</td><td>63.0</td><td>30.1</td><td>6.1</td><td>11.6</td><td>354.3</td><td>75.0</td><td>38.1</td><td>2 8</td><td>13.2</td><td>361.7</td><td></td></td<>	Oct-24	65.5	28.9	5.4	11.8		8.69		5.7	12.6	354.3	63.0	30.1	6.1	11.6	354.3	75.0	38.1	2 8	13.2	361.7	
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         76.7         70.1         70.2         70.1         14.8         343.2         66.6         35.1         5.9         13.6         37.5         16.5         391.8         67.1         14.8         343.2         66.6         35.1         6.9         13.6         70.1         14.8         343.2         66.6         35.1         5.9         13.6         40.4         14.2         37.2         40.4         14.3         70.7         40.4         14.3         21.0           61.4         32.5         5.9         11.8         343.9         69.3         36.2         5.3         14.9         336.1         62.9         30.7         60.1         15.3         358.7         40.4         17.8         37.8         40.1         17.8         37.8         40.1         17.9         37.8         40.1         17.9         38.5         40.1         17.9         38.2         40.1         10.3         38.4         48.1         10.3         38.4         48.1         10.3         49.4         10.3	Nov-24	2.99	30.5	5.3	11.9		71.9		5.9	13.6	340.4	65.1	29.9	5.4	11.7	382.1	75.1	35.5	2. 7	3.51	3687	
63.9         32.7         5.3         11.9         337.6         70.1         34.6         71.1         44.8         343.2         66.6         35.1         5.9         13.6         354.3         76.7         40.4         14.2         23.0           61.4         32.5         5.9         11.8         343.9         69.3         36.2         5.3         14.9         336.1         62.9         30.7         60.1         5.9         13.6         40.4         14.5         36.9         7.7         14.5         335.7         64.5         35.9         15.3         358.5         79.3         41.1         14.4         17.8           61.6         30.6         5.1         11.2         355.0         67.3         338.8         6.0         13.3         382.8         60.1         30.9         6.1         12.5         372.8         17.0         38.5         10.0         16.0           49.3         27.8         4.2         9.4         328.2         53.9         43.8         10.8         334.8         48.7         26.9         4.4         10.3         354.3         55.9         34.7         6.1         10.9         35.3         43.8         17.6         23.3         10.0 <td>Dec-24</td> <td>65.4</td> <td>31.5</td> <td>0.9</td> <td>12.8</td> <td>_</td> <td>71.2</td> <td></td> <td>5.9</td> <td>16.6</td> <td>334.8</td> <td>68.4</td> <td>31.8</td> <td>67</td> <td>165</td> <td>201.0</td> <td>37.0</td> <td></td> <td></td> <td>0.4.</td> <td>2.00.0</td> <td></td>	Dec-24	65.4	31.5	0.9	12.8	_	71.2		5.9	16.6	334.8	68.4	31.8	67	165	201.0	37.0			0.4.	2.00.0	
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 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 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 10.9 354.3 55.9 34.7 6.1 10.9 355.9 4.1 10.3 354.3 55.9 34.7 6.1 10.9 35.9 4.1 10.3 354.3 55.9 34.7 6.1 10.9 35.3 41.8 48.7 26.9 4.4 10.3 354.3 55.9 34.7 6.1 10.9 4.3 416.8 79.3 43.8 17.6 23.3 43.8 48.7 26.9 4.4 10.3 354.3 55.9 34.7 6.1 10.9 4.3 416.8 79.3 43.8 17.6 23.3 41.3 416.8 416.8 79.3 43.8 17.6 23.3 41.3 416.8 416.8 79.3 43.8 41.0 41.3 41.0 41.3 41.0 41.3 41.0 41.3 41.0 41.3 41.0 41.3 41.0 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3	Jan-25	63.9	32.7	5.3	11.9	337.6	70.1		7 1	-	242.0		0.10		0.01	0.176	/0.8	5/.5	17.7	23.0	361.2	
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 12.5 357.9 75.3 41.1 14.4 17.8 17.8 64.5 32.4 8.0 15.3 358.5 79.3 43.8 17.6 23.3 64.1 12.5 37.8 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 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	Feb-25	61.4	32.5	5.9	1 8	343.0	60.3		2.7		243.2	0.00	33.1	6.0	13.6	354.3	76.7	40.4	14.3	21.0	377.9	
62.2         53.2         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           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           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           66.7         33.6         6.0         12.8         399.0         72.6         36.9         603.0         68.4         35.1         8.4         16.5         416.8         79.3         43.8         17.6         23.3	140.05	0	0			7.6.0	5:50		C.C	-	336.1	67.9	30.7	0.9	12.5	357.9	75.3	41.1	14.4	17.8	336.1	
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           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           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	Mar-25	62.2	33.2	5.0	12.7	333.5	72.6	36.9	7.7	4.5	355.7	64.5	32.4	8.0	15.3	358.5	79.3	43.8	17.6	23.3	382.1	
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           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	Average	61.6	30.6	5.1	11.2	355.0	67.3	33.8	0.9	1109200	382.8	60.1	30.9	6.1	12.5	372.8	71.0	38.5	10.0	16.0	376.4	
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	Minimum	49.3	27.8	4.2	9.4	328.2	53.9	30.3	4.3		334.8	48.7	26.9	4.4	10.3	354.3	55.9	34.7	6.1	10.9	328.2	
	Maximum	2.99	33.6	0.9	12.8	399.0	72.6	36.9				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	Near Railw	ay Gate	Near V	Work Shop		r Rack ing Area		Security gate
Month	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Nigh 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

re-III						Zinc		(1.0	Mg/L)	B.D.L			
Annexure-III						Iron		(1.0	Mg/L)	0.10			
						Copper		(1.0 Mg/L)		B.D.L			
						Chromium (Total)	W H	(0.2 Mg/L) (1.0 Mg/L)		B.D.L			
	Morak	Neutralization Pit Outlet (Trade Effluent): (2024-2025)		ers		Phosphate		(5.0 Mg/L)		0.69			
	Mangalam Cement Itd - Morak	Trade Effluent	rade Effluen	rade Effluent	rade Effluent	Daramed Porcago	Parameters		Free Available chlorine		(10 Mg/L) (0.5 Mg/L)		B.D.L
	Mangalam	n Pit Outlet (				Oil and Grease		(10 Mg/L)		B.D.L			
0/04	IN/S I	Neutralizatio				TSS		(250 Mg/L) (30 Mg/L) (100 Mg/L)		31.44			
					202	(3 days at 27'c)		(30 Mg/L)		14.45			
						COD		(250 Mg/L)		58.62			
						Н	(6 E +0	8.5)		7.23			
				,	Sr.		Permissible	Limits		Average Result (April-2024 to March-2025)			

B.D.L: Below detectable limit