BK BIRLA GROUP OF COMPANIES

MANGALAM CEMENT LTD.

MANGALAM CEMENT LTD.

REGD. A/D

MCL/ Env. Audit – 117(II)/2025-2026/ 2254/33

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 Waste Heat Recovery (WHR) Power Plant (Cap.11 MW) 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 Waste Heat Recovery (WHR) Power Plant with the capacity of 11 MW of M/s Mangalam Cement Ltd., P.O. Aditya Nagar, Morak, Distt. 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.

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

WASTE HEAT RECOVERY POWER PLANT

(WHR)

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. Chaudhary Sr. Joint President (O) & FM M/s Mangalam Cement ltd. Waste Heat Recovery Plant (WHR) 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: 11.00 MW
4.	Year of establishment	2020
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: } 1124.16 M^3/day
Cooling: }

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

Name of Products	Process water consumption per unit of products (KL/KWh)	
	During the previous financial year (2023-2024)	During the current financial Year (2024-2025)
1. Power generation from Waste Heat Recovery (WHR)	0.0055	0.0058

ii.Raw material consumption

Name of raw materials*	Name of product	Consumption of raw material per unit of Output (KL/KWh)	
		During the previous financial year (2023-2024)	During the current financial Year (2024-2025)
1. Water	Power	0.0055	0.0058

*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 Financial Year	During Current Financial Year
0.0666	0.0613

iv) Total Production (KWH): -

Production	During Previous Financial Year	During Current Financial Year
Power Generation	72138115	70667458

PART-C

Pollution discharged to environment/unit of output

(Parameter as specified in the consent issued)

Pollutants	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, WHR & cement plant. During the year 2024-2025, 86800 KL waste water generated from Waste Heat Recovery Project, which is being used 100% in our own cement plant process after treatment in Neutralization pit.		
b) Air	NA	NA	NA

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

PART – E

SOLID WASTES:

Solid Wastes	Total Quantity –WHR (Ton)	
	During previous financial year (2023-2024)	During Current financial year (2024-2025)
1. From Process	NA	NA
2. From pollution control facilities	NA	NA
2. i) Quantity recycled or reutilised within the unit.	NA	NA
ii) Solid	NA	NA
iii) Disposed	NA	NA

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.

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

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.

Waste Heat Recovery based Power Plant is being operated on environmentally clean technology. In this project waste heat released from stack of cement plant is being utilized to generate power. Hence, there is no source of air pollution involved; however effluent water generated from this project is being 100% utilised in cement plant process.

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: - Analysis Report of Treated Effluent Waste Water.

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)		7.58	84.89	19.40	37.63	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L	0.06	0.01

B.D.L : Below detectable limit