

Regd. A/D

MCL/Env. Audit-117(II)/2023-2024/2396

14.09.2023

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

Dear Sir,

**Sub.: -Environmental Statement for the year 2022-2023**


With reference to above subject, we are enclosing herewith an Environmental Statement Report of Waste Heat Recovery based 11 MW Power Plant of M/s Mangalam Cement Ltd., Morak for the period from April-2022 to March-2023.

This is for your kind reference 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, ParyavaranMarg  
Road No. 6, Indraprasthalndl. Area  
Kota - 324005

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**FORM-V**  
**ENVIRONMENTAL STATEMENT**

(See rule 14)

**Environmental Statement for the financial year ending with 31<sup>st</sup>March 2022**

**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	10.09.2022

**PART –B**

**Water and Raw Material Consumption:**

i. Water consumption in M<sup>3</sup>/d

Process: } 1138.07 M<sup>3</sup>/day

Cooling: }

Domestic: 190.15 M<sup>3</sup>/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 (2021-2022)	During the current financial Year (2022-2023)
1. Power generation from Waste Heat Recovery (WHR)	0.0061	0.0060

ii. Raw material consumption

Name of raw materials*	Name of product	Consumption of raw material per unit of Output (KL/KWh)	
		During previous financial year (2021-2022)	During Current financial year (2022-2023)
1. Water	Power	0.0061	0.0060

\*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
0.0739	0.0668

iv) Total Production (KWH):-

Production	During Previous Financial Year	During Current Financial Year
Power Generation	69762571.00	69528010

**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 2022-2023, 92806.50 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 (Management, Handling & Transboundary Movement Rules, 2016).

Hazardous Wastes	Total Quantity (Kg)			
	During previous financial year (2021-2022)		During Current financial year (2022-2023)	
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 / Equipments)	We have Authorization for Hazardous waste Management & Handling for Unit – I CPP – I & II, D.G. set.		We have Authorization for Hazardous waste Management & Handling for Unit – I CPP – I & II, D.G. set.	
	Total Quantity Generated from April 2021 to March 2022 (Ltrs.)	15400	Total Quantity Generated from April 2022 to March 2023 (Ltrs.)	12600
	Old stock (Ltrs.)	NIL	Old stock (Ltrs.)	NIL
	Total Used Oil (Ltrs.)	15400	Total Used Oil (Ltrs.)	12600
	Sold-out to registered recycler (Ltrs.)	15400	Sold-out to registered recycler (Ltrs.)	12600
	Balance Quantity (Ltrs.)	NIL	Balance Quantity (Ltrs.)	NIL
2. From pollution control facilities	NA		NA	

**PART – E****SOLID WASTES:**

Solid Wastes	Total Quantity –WHR (Ton)	
	During previous financial year (2021-2022)	During Current financial year (2022-2023)
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 1 <sup>st</sup> April 2022 to 31 <sup>st</sup> March 2023.
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	90	3.208
ii) Industrial		
a) UPS	221	1.72
Total	311	4.928

Number of used batteries of categories mentioned in Sl. No. 3	During 1 <sup>st</sup> April 2022 to 31 <sup>st</sup>
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and Tonnage of scrap sent manufacturer / dealer / importer / registered recycler / or any other agency to whom the used batteries scrap was sent.		March 2023.
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		1.050 MT
a) Four Wheeler	0	
ii) Industrial	150	
a) UPS		1.050 MT
Total	150	

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 / 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 current financial year from Jan. 2022 to Dec. 2022 under the Bio-medical Waste Management Rules 2016 & its amendment are as follows.

Year	Bio-Medical Waste Quantity (Kg) as per Colour Coding			
	Red	Blue	Yellow	White
1 <sup>st</sup> January 2022 to 31 <sup>st</sup> December 2022	2.058	0.974	3.125	0.446

#### **E- Wastes:-**

E- Waste disposal is common for Cement Plant, Power Plant and Mines during financial year 2021-2022 and 2022-2023 under the E-Waste (Management) Rules 2016 & its amendments are as follows.

	Total Quantity Disposed	
	During Previous Financial Year (2021-2022)	During Previous Financial Year (2022-2023)
E-waste disposed	1240 kg	3220 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. In the year 2022-2023 we have planted 296 No's of native species and up to March 2023, 132160 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.