

**FORM V –Captive Power Plant
Environment Statement for the Financial Year ending 31st March 2024**

PART A

1. Name and address of the Owner/Occupier of the Industry operation or Process : SHRI. AMIT SYNGLE
MANAGING DIRECTOR AND CEO
ASIAN PAINTS LIMITED
PENTA DIVISION
B5 - B10 SIPCOT INDUSTRIAL COMPLEX
CUDDALORE 607005.
2. Industry/Category Primary (STC Code) : 17 category
Secondary (STC Code) :
3. Production Capacity : **Consented Quantity:**
Steam – 16 MT/ Hour
Power – 1.5 MW
4. Year of establishment : 1986
5. Date of the last environmental Statement submitted. : 26.05.2023

PART-B

WATER AND RAW MATERIAL CONSUMPTION

Water Consumption Cu.M/day : 61.32 KL / Day
Process Cu.M/day :61.32 KL/ Day
Domestic Cu.M/day : 1 KL/Day

Name of products Process water consumption per product output		
	During the previous (2022-23) financial year MT (<i>Fresh water considered</i>)	During the current (2023-24) financial year (<i>Fresh water consumption /MT</i>)
Steam	16.0	16.0
Power	0.0	0.0

*Water is received from process condensate & fresh water.

2. Raw Material Consumption:

Name of Raw Material	Name of products	Consumption of Raw Material per unit of output (Tons/Ton)	
		During the previous financial year (2022-23)	During the current financial year (2023-24)
Coal	Power	3.03	4.66

PART- C

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

Pollutants	Concentrations of pollutants in discharges in MT/ year	Percentage of variation from prescribed standards with reasons
a. WATER	Not applicable. Effluent from captive power plant is treated in Main plant (Penta plant) ETP	NIL
b. AIR	SPM 8.04 (MT/ year) SO2 10.20 (MT / year) NOx 36.70 (MT/ year)	NIL

PART- D
Hazardous Wastes

(As specified under Hazardous Wastes/Management and Handling Rules, 1989) as amended in 2000)

Hazardous Wastes	Total quantity in (Ltrs)	
	During the previous financial year (2022 -23)	During the current financial year (2023 - 24)
a. From Process	Nil	Nil

PART-E
Solid Wastes

	Total quantity	
	During the previous financial year (MT) (2022-23)	During the current financial year (MT) (2023-24)
a. From Process / Ash from Boiler*	3379	1479
b. From Pollution control facilities from ETP	NIL	NIL
c. i. Quantity recycled or reutilized+ with in the unit.	NIL	NIL
ii. Sold	NIL	NIL
iii Disposed / Ash from Boiler	3408	1315

NA – refers to not applicable.

PART-F

Please specify the characterizations (in terms of composition and quantum) of hazardous as well As solid wastes and indicate disposal practice adopted for both these categories of wastes.

Used and Spent Oils are not disposed in this financial year.

PART G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

Steam consumption

Financial year	Steam consumption (MTPA)	Reason
2023-24	107147.9 MT	Steam leaks were arrested. Production is lower when completed to last year.
2022-23	122523.6 MT	

Financial year	Power (KW/ Annum)	Reason
2023-24	7161150	demand based production done.
2022-23	8303760	Energy efficient motors are provided.

The following activities were celebrated in the last year to improve awareness and participation:

- Mission Life directions were encouraged and propagated by distribution of pamphlets to public, Schools. List of activities organised include the following:
- Seed from household are collected and made to saplings.
- Models of roof water collection is made and presented to school children.
- Painting competition on water conservation was conducted and prizes were distributed.
- World Earth Day celebrations completed.
- World Environment Day
- Effluent treatment plant infrastructure is improved by providing Diffused aeration in Effluent Treatment Plant.
- Commissioning of screw press to handle Bio sludge slurry and Filter press to handle lime sludge is under progress.
- Eco club activities are conducted every month and report of activities were submitted to JCEE, Cuddalore.
- 1500 tree saplings were planted in our factory premises (comprising of Penta & CPP)for the FY 2023-2024.
- No. of trees planted beyond the fence include 1000 nos.
- The effluent generation is being periodically monitored on shift-wise basis and appropriate action is taken to reduce the effluent generation from source itself.

- The Effluent Treatment Plant is being operated as per the established operating procedure and the performance is being monitored closely to ensure consistent COD & BOD reduction across aeration system.
- The Sewage Treatment plant was successfully operated for achieving the sewage standards and the treated water is used for gardening purpose.
- Recovered water from the Zero Liquid Discharge system is used in our Cooling tower.
- Water treatment plant performance is maintained at average output between regeneration of 1250 KL.
- The ambient air and various emission discharge points of boiler stack and process stacks are being monitored at regular intervals by engaging external laboratory and Advanced environmental lab, TNPCB. The quality of the emission from the emission points are well within TNPCB norms.
- The sludge generated from ETP and ATFD (ZLD unit) is being sent to Resustainability IWM Solutions, Gummidipoondi for disposal as and when required.
- Sprinkler systems is used for gardening purpose.
- Solar dryer for drying of Hazardous waste is operational.

AIR EMISSION MONITORING

- We are monitoring the ambient air quality weekly twice at two different locations. (Both up wind and Downwind directions.)
- We have been regularly monitoring boiler stack emission by engaging reputed laboratories / TNPCB's laboratory.
- We are monitoring the Ambient VOC / THC / AAQ, in different locations (Both upwind and down wind direction) once in three months and ensured that the values are well within the limit.
- One online NAAQ monitoring station is available in predominant wind direction in consultation with TNPCB officials to monitor PM_{2.5}, PM₁₀, SO₂ & NO_x and the monitored data are uploaded to CARE AIR CENTRE, TNPCB.

- One TVOC meter is available in the process area and the monitored data is uploaded to CARE AIR CENTRE, TNPCB.
- LDAR is being carried out on a regular basis by which the VOC emissions were identified and controlled .

Details of activities carried out to maintain the ambient air quality are as follows: -

- New storage capacity for storage of Acetaldehyde is installed for improving storage condition.
- Online NAAQ monitoring station has been installed and connected with care air system.
- The Process stacks monitoring is done every quarter.
- LDAR is being carried out using MoEF approved Laboratory once in a year as per consent requirement and the leaks if any were arrested.
- Nursery is developed for Rose, Herbal plant and other native tree species.

ENVIRONMENT & SAFETY MANAGEMENT: ISO 14001 & 45001

- We have designed and implemented the Environmental Management System (EMS) as per the international standard ISO 14001& 45001. This system is being regularly audited every six months by M/s Det Norske Veritas (DNV /GL).
- Our unit is certified for ISO 9001 standards by M/S DNV/GL.
- The recommendations from the audits are implemented on a regular basis.

TRAINING OUR EMPLOYEES ON ENVIRONMENTAL ISSUES:

- Regular training programmes are being conducted for our employees to educate, train and motivate their activities in an environmental friendly/responsible manner.
- As a part of ongoing ISO 14001 and ISO 45001 activities, we have been conducting job related environmental training programmes for all our employees in various departments for developing/improving their skill levels.

- We are taking lead for spreading awareness on Environmental preservation by campaigning on environmental issues among our employees and neighbouring villagers.
- The Environment Day was celebrated in our factory every year. Detailed speech was given by environment team to the Employees regarding the importance of maintaining a healthy environment.
- Fly ash is sent to M/s TSK Fly Ash Bricks, India Fly Ash Bricks.

PART – H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- Rainwater collection and harvesting was done (around 200 cubic meters).
- We are continuing to use Environmentally friendly imported coal originating from Indonesia. This coal contains less Sulphur content.
- Lake delisting is done nearby village in Krishnankuppam
- Additional water holding capacity of KL is generated in Sedapallam

PART - I

Any other particulars for improving the quality of the environment.

- We are conducting characterisation of the effluent and recycling the same in the plant for various process applications.
- Solar dryers in sludge drying beds for improving the drying efficiency of the sludge drying beds is performing well.
- Tree population strength (14500 Nos.) within the plant and 1000 trees beyond the boundary made(*combined for Penta plant & for Captive Power plant*).
- The rainwater harvesting trenches in the boiler area for effective harvesting of rainwater is available.

Environment Management Cell details		
Name	Designation	Qualification

P. Jayakanthan	Senior Production Manager	B.Tech (Chemical) & Diploma in Industrial Pollution & Control
Marimuthu	Senior Executive	M.Sc.(Chemistry) ,MBA.,DCPI,RBP.
Ram Siva Prasad Thangapandian.	Safety Officer	BE (Civil) & PG Diploma in factory safety
A Balan	Assistant Manager	B Tech Chemical Engineering.

CSR activities carried out during FY 2023-24

Details	Amount in Rs.
Health & Hygiene projects in Cuddalore	1815644
Rejuvenation of Water bodies in Cuddalore	6392861
Disaster Management	55000
Total	8263505