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ASIAN PAINTS LIMITED  
PENTA DIVISION  
AN ISO 9001  
ISO 14001 &  
ISO 45001 UNIT

Corporate Identification Number (CIN) : L24220MH1945PLC004598  
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Pan : AAACA3622K  
GST No. 33AAACA3622K1Z2

Asian Paints Limited  
B-5 to B-10 Sipcot  
Industrial Complex,  
Kudikadu Village,  
Cuddalore - 607 005.  
Tamil Nadu  
Tel.No-04142-239248  
[www.asianpaints.com](http://www.asianpaints.com)

APL/CDL/PENTA/FORM-V/ 14 /2022-23

26<sup>TH</sup> May 2023

To  
The District Environment Engineer,  
Tamil Nadu Pollution Control board,  
A-3, SIPCOT Industrial Complex,  
Near SIPCOT Fire Station,  
CUDDALORE – 607 005



Dear Sir,

Sub: Submission of Environmental Statement ( FORM V )for PENTA Plant as on 31.03.2023 .

We are enclosing herewith the Environmental statement for Penta Plant (FORM-V) /  
Annual implementation report for the Financial Year 2022 -2023.

This is for your kind perusal.

Thanking you,

Yours faithfully,  
for **ASIAN PAINTS LIMITED**

*P Jayakanthan*  
**P.Jayakanthan**  
**Senior Production Manager**

**Encl:** Environmental statement for Penta Plant (FORM-V)

**CC TO.**  
The Member Secretary,  
Tamil Nadu Pollution Control board,  
76,Mount Salai,  
Guindy,  
Chennai – 600 032



ET937302556IN IVR:6984937302556  
SP SIPCOT CUDDALORE S.O (607005)  
Counter No:1,26/05/2023,12:11  
To:THE MEMBER SE,TN POLLUTION CON  
FIN:600032, Guindy Industrial Estate S.O  
From:ASIAN PAINT,SIPCOT INDUSTRIA  
Wt:115gms  
Amt:41.30(Cash)Tax:6.30  
<Track on [www.indiapost.gov.in](http://www.indiapost.gov.in)>

**FORM V – PENTA PLANT**  
**Environment Statement for the Financial Year ending 31st March 2023**

**PART A**

1. Name and address of the Owner/Occupier of the Industry operation or Process : SHRLAMIT SYNGLE  
MANAGING DIRECTOR AND CEO  
ASIAN PAINTS LIMITED  
PENTA DIVISION  
B5 - B10 SIPCOT INDUSTRIAL COMPLEX  
CUDDALORE 607005.
2. Industry/Category Primary (STC Code) : Red / Large  
Secondary (STC Code) :
3. Production Capacity : **Consented Quantity:**  
PENTAERYTHRITOL 730 MT/MONTH  
SODIUM FORMATE 480 MT/MONTH  
FORMALDEHYDE 675 MT/MONTH
4. Year of establishment : 1986
5. Date of the last environmental Statement submitted : 20.05.2022

**PART-B**

**WATER AND RAW MATERIAL CONSUMPTION**

Water Consumption Cu.M/day :549  
Process Cu.M/day :469  
Domestic Cu.M/day : 80

Name of products Process water consumption per product output		
	During the previous (2021-22) financial year MT ( <i>Fresh water considered</i> )	During the current (2022-23) financial year ( <i>Fresh water consumption /MT</i> )
Pentaerythritol *	2.06	0
Sodium Formate	1.94	0
Formaldehyde (100%)	0.26	1.7

\*Water is received along with raw materials.



**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 (2021-22)	During the current financial year (2022-23)
a. FORMALDEHYDE (100%)	PENTAERYTHRITOL	1.095	1.098
b. ACETALDEHYDE	AND	0.378	0.376
c. CAUSTIC LYE (100%)	SODIUM FORMATE	0.367	0.365
d. METHANOL		1.292	1.275

**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	TDS 42.41 (MT/ year)	NIL
b. AIR	SPM 0.315 (MT/ year) SO2 0.110 (MT/ year) NOx 0.376 (MT/ year) Annual average value of Stacks emission analysis done by TNPCB	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 (2021 -22)	During the current financial year (2022 - 23)
a. From Process		
Used System oil	900 Liters	400 Liters
Other Spent oil	300 Liters	215 Liters
Spent Carbon.	5930 Kgs	5540 Kgs
Distillation residue	441.860 MT	26.16 MT
From Pollution Control Facilities <i>From ETP/MEE/ATFD</i>	171.930 MT	171.658 MT

**PART-E**  
**Solid Wastes**

	Total quantity	
	During the previous financial year (MT) (2021-22)	During the current financial year (MT) (2022-23)
a. From Process / Ash from Boiler*	NA	NA
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	NA	NA

- Details are given in Form V of CPP , 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.

Sl. No.	PARAMETERS	USED OILS	WASTE OIL
1	Color (Hazan units.)	Brown	Dark Brown
2	Water %	BDL(DL:0.05%)	0.28%
3	Density (g/cc)	0.8656 kg/l	0.8650 kg/l
4	Total halogens (ppm)	15	16
5	Chromium as cr (ppm)	ND	0.1
6	Nickel as Ni (ppm)	ND	0.3
7	Cadmium as cd (ppm)	< 2.5	3.2
8	Lead as Pb (ppm)	1.4	0.9
9	Arsenic as As (ppm)	ND	ND
10	PAH (ppm)	0.18	0.20
11	PCB (ppm)	BDL(D.L 2.0 ppm)	BDL(D.L 2.0 ppm)

Both Used and Spent Oils are disposed to authorized Hazardous waste recycle



## PART G

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

#### Water consumption

Financial year	Water consumption	Reason
2022-23	2,18,122 KL	Low demand for product
2021-22	2,29,096 KL	

#### Production details

Financial year	Pentaerythritol in MT	Sodium Formate in MT	Formaldehyde in MT	Reason
2022-23	8041	4979	7075.59	Low demand for product
2021-22	8671	5253	7796	

- 1500 tree saplings were planted in our factory premises (comprising of Penta & CPP )for the FY 2022-2023.
- 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.



- Wash water re usage in our crude belt filter is practised.
- 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 TNWMA, Gummidipoondi for disposal as and when required.
- Distillation residue generated from process is sent to M/s GGEPIL, Ranipet for disposal.
- Conversion of dry sieving machine to 2 parts will enable less dust reduction
- Sprinkler systems is used for gardening purpose.
- Solar dryer for drying of Hazardous waste is installed

#### **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<sub>2.5</sub>, PM10, SO<sub>2</sub> & NO<sub>x</sub> 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 on 31<sup>st</sup> may2022 and 1<sup>st</sup> June-2022.



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

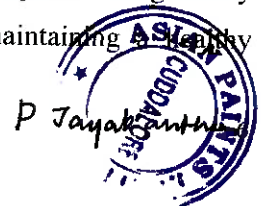
- New storage capacity for storage of Acetaldehyde is installed for improving storage condition.
- Online NAAQ monitoring station has been installed and connected with care air system.
- The Process stacks monitoring is done every quarter.
- LDAR is being carried out using MoEF approved Laboratory once 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.Ramco TSK Fly Ash Bricks, Saravana Cements, 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 Environmental friendly imported coal originating from Indonesia. This coal contains less Sulphur content.
- Methanol transfer line from unloading pump to storage tank was replaced to reduce fugitive emission.
- Sprinkler system is provided in Acetaldehyde storage, warehouse & coal conveyor.
- Breather valve is provided in storage tank.
- Lake delisting is done nearby village in Sedapallam ( Photos enclosed )
- Additional water holding capacity of 20000 KL is generated in Sedapallam
- Cumulative water harvested from 2017-2023 = 99312 cubic meter.

#### **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.
- New Multiple Effect Evaporator setup was commissioned.
- Solar dryers in sludge drying beds for improving the drying efficiency of the sludge drying beds is performing well.
- Category-wise identification of population of trees (13000 Nos.) within the plant and 1400 trees beyond the boundary made.
- Participated in CII ESHS award giving all details of our performance in environment.
- The rainwater harvesting trenches in the boiler area was constructed for effective harvesting of rainwater.
- Environment Management Cell details:





Name	Designation	Qualification
P. Jayakanthan	Senior Production Manager	B.Tech (Chemical) & Diploma in Industrial Pollution & Control
K.Marimuthu	Senior Executive	M.Sc.(Chemistry), MBA., DCPI, RBP.,
Devaganesh	Safety Officer	BE (Chemical) & PG Diploma in factory safety
A.Karthikeyan	Chemist	M.Sc.(Chemistry)

**CSR activities carried out during FY 2022-23**

CSR Projects – 2022-23	Sector in which the project is covered	Annual Budget- Rs Lakhs
Primary Health Centers at 4 Villages (Echankadu, Kudikadu, Echankadu and Karaikadu Villages)	Health and Hygiene	19.7
Wash project Construction of Toilets in Echankadi Village	Health and Hygiene	3.2
Wash project Construction of Toilets in Semendalam ITI	Health and Hygiene	7.05
<b>Sub-Total</b>		<b>29.9</b>
Restoration of water bodies (Karaikadu)	Water Management	31
Restoration of water bodies (Sedapallam)	Water Management	78.9
Restoration of 2 water bodies (pachyankuppam)	Water Management	21.03
Tree Plantation program in near water bodies	Water Management	9.5
Installation of UV based water treatment plant	Water Management	21
<b>Sub-Total</b>		<b>161.3</b>
<b>Total</b>		<b>191.3</b>

