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ASIAN PAINTS LIMITED  
PENTA DIVISION  
AN ISO 9001  
ISO 14001 &  
OHSAS 18001 UNIT

Corporate Identification Number (CIN) : L24220MH1945PLC004598  
For Shares related queries, email to [investor.relations@asianpaints.com](mailto:investor.relations@asianpaints.com)  
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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/TNPCB/11/2020-21

21<sup>st</sup> July 2020

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

<Track on [www.indiapost.gov.in](http://www.indiapost.gov.in)>

भारतीय डाक



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Amt:35.00(Cash)

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Dear Sir,

**Sub: Submission of Environmental Statement as on 31.03.2020 FORM-V.**

We are enclosing herewith the Environmental statement (FORM-V)/Annual implementation report for the Financial Year 2019-2020.

This is for your kind perusal.

Thanking you,

Yours faithfully,  
for **ASIAN PAINTS LIMITED**

**THULASEEDHARAN NAIR**  
**GENERAL WORKS MANAGER**



**Encl:** Environmental statement. **FORM-V**

**CC TO.**

The District Environmental Engineer,

Tamil Nadu Pollution Control Board,

A-3, SIPCOT Industrial Complex,

Near SIPCOT Fire Station,

CUDDALORE – 607 005

23/7/2020

**FORM V**  
**Environment Statement for the Financial Year ending 31st March 2020**

**PART A**

1. Name and address of the Owner/Occupier of the Industry operation or Process : Shri. K.B. S. ANAND.  
MANAGING DIRECTOR AND CEO  
ASIAN PAINTS LIMITED  
PENTA DIVISION  
B5 - B10 SIPCOT INDUSTRIAL COMPLEX  
CUDDALORE 607 005.
2. Industry/Category Primary (STC Code) : Red / Large  
Secondary (STC Code) :
3. Production Capacity : **Consented Quantity:**  
PENTA ERYTHRITOL 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 : 25.09.2019

**PART-B**

**WATER AND RAW MATERIAL CONSUMPTION**

Water Consumption Cu.M/day	:	596.35
Process Cu.M/day	:	44.88
Cooling/Boiler feed Cu.M/day	:	482.98
Domestic Cu.M/day	:	42.76

Name of products Process water consumption per product output		
	During the previous (2018-19) financial year M <sup>3</sup> /MT	During the current (2019-20) financial year M <sup>3</sup> /MT
Penta erythritol Note 1	32.530	28.405
Sodium Formate Note 1	57.530	50.878
Formaldehyde Note 1 (100%)	25.326	24.648

Note1: The water consumption shown above is net of recovered water from Zero Liquid Discharge system.



**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 (2018-19)	During the current financial year (2019-20)
a. FORMALDEHYDE (100%)	PENTAERYTHRITOL AND SODIUM FORMATE	1.123	1.152
b. ACETALDEHYDE		0.388	0.396
c. CAUSTIC LYE (100%)		0.373	0.383
d. METHANOL		1.326	1.166

**PART- C**

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

Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume) * (in ppm)	Percentage of variation from prescribed standards with reasons
a. WATER	-- 8.78 0 0 0 0 0	pH 6.38 TDS 149 TSS 0 COD 0 BOD 0 Chlorides 0 Sulphate 0	NIL
b. AIR	29.79 31.60 112.396	SPM 44.00 SO2 46.67 NOx 166.00 Annual average value of Stack emission analysis done by TNPCB	NIL

\* Averaged values of analysis done by APL laboratory - (Based on Water cess annexure ROA).  
Characteristics of water given above are recovered water from the Zero discharge system for re use.



**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 (2018 - 19)	During the current financial year (2019 - 20)
a. From Process		
Used System oil	840 Liters	0 Liters
Other Spent oil	210 Liters	0 Liters
Spent Carbon.	800 Kgs	2980 Kgs
Distillation residue	0 kgs	60.24 MT
From Pollution Control Facilities <i>From ETP/MEE/ATFD</i>	156.730 MT	169.290MT

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

	Total quantity	
	During the previous financial year (MT) (2018-19)	During the current financial year (MT) (2019-20)
a. From Process / Ash from Boiler	1461.14 MT	1699.08 MT
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	1556.92 MT	1823.94 MT

**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 recyclers.



## PART G

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

- In the year 2019-2020, we had achieved the specific water consumption of 27.49 KL/MT of PENTA from 28.32 KL/MT of PENTA due to various measurements..
- In the year 2019-2020, the specific Steam consumption is 17.87 MT of PENTA
- In the year 2019–2020, Specific Power consumption is 1270 kWh/MTof PENTA
- Around 550 tree saplings were planted in our factory premises for the FY 2019-2020.
- 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.
- 95% of 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 1300 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 GEPIL, Ranipet for disposal.



- Sprinkler systems is used for gardening purpose.

#### **AIR EMISSION MONITORING**

- We are monitoring the ambient air quality once in a week at four different locations. (Both up wind and Downwind directions.)
- We have been regularly monitoring boiler stack emission by engaging reputed laboratories / TNPCB's laboratory facility on a monthly basis.
- 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 has been installed 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's are uploaded to CARE AIR CENTRE, TNPCB.
- One TVOC meter was installed 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: -**

- Online NAAQ monitoring station has been installed and connected with care air system.
- The entire fuel handling systems in our boiler has been completely covered to avoid dust emission while handling fuel and ash.
- LDAR is being carried out using MoEF approved Laboratory once in a year as per consent requirement and the leaks if any were arrested.

#### **ENVIRONMENT & SAFETY MANAGEMENT: ISO 14001: OHSAS 18001**

- We have designed and implemented the Environmental Management System (EMS) as per the international standard ISO 14001. This system is being regularly audited every six months by M/s Det Norske Veritas (DNV /GL).



- Our unit has also got certified for ISO 18001 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 OHSAS 18001 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.
- Plastic awareness campaign was done along with Help Age India and Collectorate. The function was held in the presence of Industries Minister, Collector and other dignitaries in Silver Beach ,Cuddalore.

#### **PART – H**

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

- Rain water collection and harvesting was done ( around 200 cubic meters)..
- We are continuing to using 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.
- New Absorption column are installed in Formaldehyfe plant to improve efficiency.



## 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.
- Process Automation and Trench Elimination projects were implemented by which the recycles has come down leading to reduction in resource consumption.
- Solar dryers in sludge drying beds for improving the drying efficiency of the sludge drying beds is performing well.
- Three rain water harvesting trenches in the boiler area was constructed for effective harvesting of rain water

### **CSR activities carried out during FY 2019-20**

Area	Amount in Lakhs	Activities
Poondiyankuppam	6.6	Construction of compound wall @Govt.Hr. Sec. School, Poondiyankuppam
Eachankadu Village	2.9	School Building Painting work at Primary School, Eachankadu Village
SIPCOT Project Office	3.5	Sponsoring PVC Pipes to SIPCOT Project Office, Cuddalore
Primary Health Centers	8.6	Renovation of Toilet @ Help Age India Old Age Home
Renovation of Toilet	4.3	Renovation of Toilet @ Help Age India Old Age Home
Thiruvendipuram	7.0	Construction of Class Room at Sri Vidya KalaKendram Matric School Tiruvendipuram
Total Spending	32.9	(Forty Lakh Rupees )

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