REGD. &H.O: 6A SHANTHI NAGAR, SANTACURZ (E) P.O.BOX No.6818 MUMBAI-400 055.
TEL: 39818000, FAX: 39818888

PLEASE REPLY TO:
Penta Division, B-5 to B-10, SIPCOT Industrial Complex, Kudikadu, Cuddalore-607 005.
Tel: 239247, 239248 & 239423, Fax: 239234.

asianpaints
Asian Paints Limited
Penta Division
AN ISO 14001 &
OHSAS 18001 UNIT

APL/CDL/TNPCB/ 89/2015–16 18th August 2015

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

Dear Sir,

Sub: Submission of Environmental Statement as on 31.03.2015- FORM-V.

We are enclosing herewith the Environmental statement (FORM-V) for the Financial Year 2014-15.

This is for your kind perusal.

Thanking you,

Yours faithfully,
for **ASIAN PAINTS LIMITED**

K.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

P. Jayakanthan

THE DEE TNPC BOARD CUDDALORE 21/9/15

REGD. &H.O: 6A SHANTHI NAGAR, SANTACURZ (E) P.O.BOX No.6818 MUMBAI-400 055.
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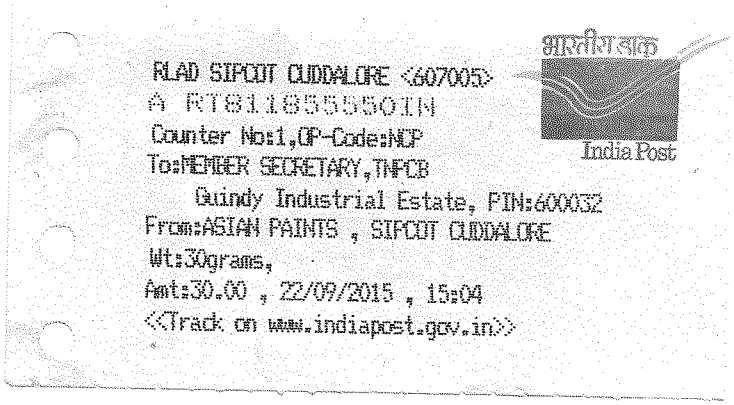

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CUDDALORE – 607 005

P. Jayakanthan

FORM V

Environment Statement for the Financial Year ending 31st March 2015

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 560 MT/MONTH SODIUM FORMATE 336 MT/MONTH FORMALDEHYDE 675 MT/MONTH
4. Year of establishment	:	1986
5. Date of the last environmental Statement submitted	:	26th June 2014.

PART-B

WATER AND RAW MATERIAL CONSUMPTION

Water Consumption Cu.M/day	:	571.74
Process Cu.M/day	:	42.61
Cooling/Boiler feed Cu.M/day	:	491.82
Domestic Cu.M/day	:	33.64

Name of products Process water consumption per product output		
	During the previous (2013-14) financial year M^3/MT	**During the current (2014-15) financial year M^3/MT**
Penta erythiritol Note 1	33.558	32.185
Sodium Formate Note 1	57.529	57.469
Formaldehyde Note 1 (100%)	30.711	29.420

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 (2013-14)	During the current financial year (2014-15)
a. FORMALDEHYDE (100%)	PENTAERYTHIRITOL	1.093	1.094
b. ACETALDEHYDE	AND	0.376	0.386
c. CAUSTIC LYE (100%)	SODIUM FORMATE	0.366	0.367
d. METHANOL		1.286	1.275

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	--	pH	7.1	NIL
	3.593	TDS	60	
	0	TSS	0	
	0	COD	0	
	0	BOD	0	
	1.970	Chlorides	33	
	2.570	Sulphates	43	
b. AIR	22.497	SPM	38.20	NIL
	94.463	SO2	55.80	
	32.862	NOx	160.40	
		Annual average value of Stack emission analysis done by TNPCB		

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

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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 (2013 - 14)	During the current financial year (2014 - 15)
a. From Process Used System oil Other Spent oil Spent Carbon. From Pollution Control Facilities ***From ETP/MEE/ATFD***	 699 Liters 10 Liters 100 Kgs 111.367 MT	 111 Liters 0 Liters 0 Kgs 113.877 MT

PART-E

Solid Wastes

	Total quantity	
	During the previous financial year (MT) (2013-14)	**During the current financial year (MT) (2014-15)**
a. From Process / Ash from Boiler	1649.984 MT	1157.833 MT
b. From Pollution control facilities From ETP	NIL	NIL
c. i. Quantity recycled or reutilized+	NIL	NIL
with in the unit.	NIL	NIL
ii. Sold	NIL	NIL
iii Disposed / Ash from Boiler	1553.704 MT	1428.133 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	0.8950 kg/l
4	Total halogens (ppm)	15	16
5	Chromium as cr (ppm)	ND	0.1
6	Nickel as Ni (ppm0	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	0.2
11	PCB (ppm)	BDL (D.L-2.0 ppm)	BDL (D.L-2.0 ppm)

PART G

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

- We have reduced Water consumption per Mt of Pentaerythritol (Product) in our plant from 33.59 KL to 32 KL which in directly conserves the water resources.
- In the year 2014-2015, we have reduced the specific Power consumption in our Plant to 1278.05 KWH PMT of Pentaerythritol from 1322.08 KWH (in the year 2013-14), which indirectly reduces the emission at the power generation point.

The above reduction in various resources directly reflects the improved environmental performance of our Division.

- Around 300 tree saplings were planted in our factory premises.
- 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.
- We have connected the domestic effluent to the inlet of aeration tank in Effluent Treatment Plant which has improved performance of Effluent Treatment Plant in reducing BOD and total effluent is discharged through a single point.
- We have installed two stage Reverse osmosis plant cum Zero Discharge system to recycle the treated effluent in to our process plant and the same is being operated and maintained on daily basis. Around 95 % of the recovered water from the Zero Liquid Discharge system is used in our Cooling tower and as boiler feed water after further polished in our ION exchange water treatment plant.
- The ash storage area is properly bounded with dyke wall arrangement and an effective dust suppression system has been provided to eliminate dust emission from the area.
- Two numbers of coal storage shed of capacity 550 MT and 700 MT each, to a store the coal.
- Low sulphur content imported coal is being used.
- 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 TNPCB district environmental lab. The quality of the emission from the emission points are well within TNPCB norms.

P. Jay

- The sludge generated from ETP and ATFD (ZLD unit) is sending to TNWMA, Gummidipoondi for disposal as and when required.

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 $PM_{2.5}$, PM10, SO2 & NOx 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

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

- We have installed a bag filter in our FBC Boilers and reduced the SPM level less than 50 Mg/NM^3. We have also provided on line SPM, SO_2 and NO_x meters in our 16 TPH boiler chimney and monitoring the same on continuous basis.

- Online NAAQ monitoring station has been installed and connected with care air system.

- The entire fuel and ash handling systems in our boiler has been completely covered to avoid dust emission while handling fuel and ash.

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).

- Our unit has also got certified for OHSAS 18001 standards by M/S DNV.

P. Jay.

TRAINING OUR EMPLOYEES ON ENVIRONMENTAL ISSUES:

- We are conducting training programme 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.
- We are taking lead for spreading awareness on Environmental preservation by mobilising/campaigning on environmental issues among our employees and neighbouring villagers. The Environment Day was celebrated in our factory presided over by the DEE, TNPCB every year.

PART – H

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

- We had installed online pH & Conductivity meters in the storm water drain to ensure that nothing is carried away through the rain water.
- It is planned to continuously improve the greenery in the Plant in the ensuing years.
- We are currently using Environmental friendly imported coal originating from Indonesia. This coal contains less sulphur content.

This Financial year we have planned to conduct programs & competitions for improving the awareness on Environment among school children's in the adopted Government School.

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.
- Our unit has been nominated by TNPCB, Cuddalore for the national awards for Prevention of pollution and Rajiv Gandhi environment Award for clean technology for the year 2014-2015.

CSR activities carried out during FY 2014-15

- We have conducted programs & competitions for improving the awareness on Environment among school children's in the adopted Government School. The student's & teachers participated in the environment related competition eagerly .

P. Jay.

- Contributed Rs 5.82 lacs for construction of new water tank with the capacity of 30 KL and water distribution arrangement in Kudikadu village.
- During the FY 14-15 we has spent Rs 11.9 lacs towards CSR activities (routine and non-routine) for the Karaikadu high school adopted by us.
- Contributed Rs 1.34 lacs for facilitating the Kudikadu school with computers, playing things, shoes, ID cards etc.
- Contributed Rs 78000 for opening a new health center in Kudikadu village.
- Contributed an amount of Rs 66000 as salaries for anganvadi teachers.
- Contributed an amount of Rs 24000 for facilitating water tank in Eechangadu School.
- Contributed an amount of Rs 3.02 lacs for construction of stage, toilet and septic tank facility to school at Eeachangadu.
- Contributed Rs 2.24 lacs for facilitating the Eachangadu school with computers, playing things and kitchen utensils etc.
- Contributed Rs 5.15 lacs to Vidyakala kendram matriculation school in Thiruvanthipuram.
- Contributed Rs 60000 towards scholarship for the first five rank holders of the Government higher secondary school, Karaikadu.
- Electricity bill of around Rs 18000 was paid to the Government higher secondary school, Karaikadu on a bimonthly basis.
- Provided a steel cupboard and tables to the Government higher secondary school, Karaikadu.

P. Jay.