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

TEL: 39818000, FAX: 39818888



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

1 st August 2013

PLEASE REPLY TO:

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

APL/ CDL/TNPCB/63/2013-14

The Member Secretary,

Tamil Nadu Pollution Control Board

76, Mount Salai, Guindy,

Chennai - 600 032

BY RPAD

Dear Sir,

Sub: Submission of Environmental statement as on 31.03.2013 -Form V

We are enclosing herewith the Environmental statement (FORM-V) for the financial year 2012-2013.

This is for your kind perusal please.

Thanking you,

Yours faithfully,

For ASIAN PAINTS LIMITED

T.C.N.SAIKRISHNAN

TruM'

GENERAL WORKS MANAGER

Cc: The Divisional Environmental Engineer,

TNPCB,

21/A Siva Complex, 2 nd Floor,

Imperial road,

CUDDALORE - 607 002.

Encl:

1. Environmental Statement (Form V)

FORM V

Environment Statement for the Financial Year ending 31st March 2013

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)

Secondary (STC Code)

Red / Large

(STC Code) :

3. Production Capacity

Consented Quantity:

PENTA ERYTHRITOL 450 MT/MONTH SODIUM FORMATE 275 MT/MONTH FORMALDEHYDE 675 MT/MONTH

: 1986

5. Date of the last environmental

Statement submitted

4. Year of establishment

19th June 2012.

PART-B WATER AND RAW MATERIAL CONSUMPTION

Water Consumption Cu.M/day : 552.507
Process Cu.M/day : 25.471
Cooling/Boiler feed Cu.M/day : 499.296
Domestic Cu.M/day : 27.740

Name of products Process water consumption per product output								
	During the previous (2011-12) financial year M ³ /MT	During the current (2012-13) financial year M ³ /MT						
Penta erythiritol Note 1	32.481	37.345						
Sodium Formate Note 1	56.271	63.587						
Formaldehyde Note 1 (100%)	30.198	34.425						

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

We have planted around 4185 tree saplings in our factory premises.

2. Raw Material Consumption:

		Consumption of Raw Material per unit of output (Tons/Ton)			
Name of Raw Material	Name of products	During the previous financial year (2011-12)	During the current financial year (2012-13)		
a. FORMALDEHYDE (100%)	PENTAERYTHIRITOL	1.086	1.085		
b. ACETALDEHYDE	AND	0.372	0.381		
c. CAUSTIC LYE (100%)	SODIUM FORMATE	0.371	0.373		
d. METHANOL		1.223	1.269		

PART- C

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

Pollutants	Quantity of pollutants discharged (mass/day)	Cone in disc	Percentage of variation from prescribed standards with reasons	
a. WATER		pН	7	
	4.973	TDS	86	
	0	TSS	0	NIL
	0	COD	0	
	0	BOD	0	
	2.593	Chlorides	45	
	2.327	Sulphates	40	
b. AIR	44.56	SPM	26.516	
	148.22	SO2	88.212	
	14.23	NOx	8.467	NIL
		Annual average analysis done	ge value of Stack emission 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.

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 (2011 - 12)	During the current financial year (2012 - 13)					
a. From Process							
Used System oil	825 Liters	863 Liters					
Other Spent oil	99 Liters	15 Liters					
Spent Carbon.	0	0					
From Pollution Control Facilities From ETP/MEE/ATFD	63.759 MT	117.260 MT					

PART-E

Solid Wastes

	Total qu	uantity		
	During the previous financial year (MT) (2011-12)	During the current financial year (MT) (2012-13)		
a. From Process / Ash from Boiler	983.640 MT	1360.96 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	946.460 MT	1303.628 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.

SI. 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.

- WATER consumption per Mt of Pentaerythritol (Product) is 37.345 KL is high compared to previous financial year the reason for increase in specific water consumption is due to tree plantation and its maintenance.
- We have reduced the specific POWER consumption in our Plant to 1333.19 KWH PMT of Pentaerythritol from 1363 KWH (in the year 2011-12), which indirectly reduces the emission at the power generation point.

Status of various resource conservation efforts over the last few years is given below:-

Specific consumption Per Tonne of PE	1996-97	1997-98	1998-99	1999-2000	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	% Reduction
Water M ³	123	109	85	75	69	62	52	49	45	44	37	39.59	40.274	36.992	30.313	32.905	37.345	69.64
Steam MTs	33	30	28	27	25	23	21	19	19	20	20	21.01	19.669	18.940	19.810	19.560	19.71	40.273
Power Units KWH	2850	2694	2643	2431	2200	2090	1929	1695	1587	1554	1598	1500	1556.18	1477	1391	1363	1333.19	53.221
Major Raw Material Acetaldehyde Kgs	455	433	423	422	401	395	300	374	390	389	387	376	376	378	371	370.750	372.19	18.20
Fuel Eq. Coal – Kgs.	288	280	258	237	252	260	255	269	276	279	253	245	254	270	242	229.200	246.87	14.281
COD load Kgs/day						27	23	25	25	17	12	14	7.387	1.139	ZID	71.5	ZID	ZLD unit-
BOD load Kgs/day						3	3	2	2	2	2	1.77	0.788	0.123	ZLD unit-	and the second s	ZLD unit-	

 All specific consumption figures given above are for per ton of our product produced except for Fuel which is given in Kgs of Equivalent Coal per ton of Steam produced.

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

- Around 4185 tree saplings were planted in our factory premises during the financial year to replace the uprooted trees because of thane cyclone
- 236 numbers of tree saplings given to nearby village for plantation on Independence Day.
- 365 numbers of tree saplings planted outside of factory premises. (Adjacent to the SIPCOT service road)
- The effluent generation is being periodically monitored on shift-wise basis and appropriate action istaken 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 same.
- 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.

 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.

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/NM³. We have also provided on line SPM, SO₂ and NO_x meters in our 16 TPH boiler chimney and monitoring the same on continuous basis.
- 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 is also OHSAS 18001 standards by the same agency.

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.
- Green Belt Initiative Tree Plantation

To improve green belt in our Plant premises, we have planted 4185 tree saplings and supplied 200 saplings to ARLM School Cuddalore and Sarath Logistics, Pondicherry during the financial year.

- 236 numbers of tree saplings given to nearby village for plantation on Independence Day.
- 365 numbers of tree saplings planted outside of factory premises. (Adjacent to the SIPCOT service road)

We have planned to plant 1000 more tree saplings during the financial year.

PART-H

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

- 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.

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 awarded the II prize by the Inspectorate of Factories, Tamil Nadu Government's
 'State Safety Award', for the safety standards set under the group B, scheme III for having recorded the longest accident free period man-hours. Safety Trophy and Certificate was handed over by the TN Minister in a public function at Chennai, on 19th December 2012.
- Our unit has received the following national level awards from the Confederation of Indian Industry, as
 "Excellent Energy Efficient Unit" and "Innovative Project award" in the '13th National Award
 for Excellence in Energy Management 2012' event held in Hyderabad in August 2012.

CSR activities carried out during FY 2012-13

- 1000 Kgs of Rice donated to the neighboring villagers, affected by rain in the year 2012
- Contributing Rs 114000/ each (for two teachers) as salary to the PTA employed teachers of the Government higher school at Karaikadu.
- Contributing Rs 60000/ towards scholarship of the first five rank holders of the Government higher school at Karaikadu. (For plus one and plus two).
- Bi Monthly Electricity bill of around Rs 18000/ is paid to the Government higher school at Karaikadu.
- Replaced the damaged AC sheet roofing in the class room. Amount spent on the job Rs 25000/=
- Re fixed the School name board in position which had fallen down due to Thane cyclone.
- Conducted a session with the students, teachers and parents of the local community on "Environment awareness"