



25th September 2017

To,

**The Environmental Engineer,  
Andhra Pradesh Pollution Control Board,  
Regional Office, Kurnool,**

Dear Sir,

Please find enclosed herewith "**ENVIRONMENTAL STATEMENT**" for the year 2016-2017.

Please acknowledge the receipt for the same.

Thanking you,  
Yours sincerely,  
For **BERGER PAINTS INDIA LTD**

**Mr. Devashish Nath  
General Manager Works**

Encl: Environmental Statement 2016-17



**BERGER PAINTS INDIA LIMITED**

Berger House, 129, Park Street, Kolkata - 700 017, Phone : 2229 9724-28, 2229 6005-06, Fax : 91-33-2249 9009/9729, www.bergerpaints.com  
CIN - L51434WB1923PLC004793, E-mail : consumerfeedback@bergerindia.com

**ENVIRONMENTAL STATEMENT (FORM V)  
FOR THE FINANCIAL YEAR ENDING 31<sup>ST</sup> MARCH 2017**

**PART - A**

(i) Name and address of the Occupier of the industry	Shri Abhijit Roy Managing Director M/s Berger Paints India Ltd	
Operation or Process	Paint manufacturing	
(ii) Industry Category	Primary SIC Code – 2800 Secondary SIC Code – 2850	
(iii) Annual Production Capacity	Water based Emulsion Paints	<b>907KLD</b>
	Water based Distemper Paints	<b>160MTPD</b>
(iv) Year of Establishment	26.12.2013	
(v) Date of the last Environmental Statement submitted	28.09.2016	

**PART B**

**Water and Raw Material Consumption**

**i. Water Consumption**

Description	Qty As per CFO	Qty Actual Consumed
Process water	320 m3 / D	107.7 m3/D
Cooling tower make up	1 m3 / D	0.9 m3/D
Plant & Process wash, QC	2 m3 / D	1.98 m3/D
Fire fighting make up	1 m3 / D	0.86 m3/D
Domestic	7 m3 / D	6.9 m3/D
Gardening	7 m3 / D	6.5 m3/D



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Name of the product	Process water consumption (m <sup>3</sup> / KL of Production)	
	FY 15-16	FY 16 -17
Paints	0.81	0.82

**ii. Raw Material consumption**

**Annexure I** [Page 6]

**PART C**

Pollution Discharged to the Environment per unit of Output  
(Parameters as specified in the consent issued)

**Pollutants**

- a. Water **Annexure II** [page 7]
- b. Air **Annexure III** [page 8]

**PART - D**

**Hazardous Wastes**

**(As specified under Hazardous Waste (Management and Handling) Rules, 1989 and list amendments there of)**

Presented as **Annexure IV** [page 9]

**PART - E**

**Solid Wastes**

Presented as **Annexure V** [page 10]



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**PART F**

Please specify the characterisation (in terms of composition and quantum) of Hazardous as well as solid waste and indicate disposal practice adopted for both these categories of waste.

Presented as **Annexure VI** [page 11]

**PART -G**

**IMPACT OF POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF  
NATURAL RESOURCES AND ON THE COST OF PRODUCTION**

**A. Impact of Pollution Abatement on Conservation.**

**a. Cleaner Effluent**

Effluent is generated only during cleaning operations. Proper production planning, using jet pumps for cleaning the vessels will sufficiently reduce the consumption of fresh water. The effluents are treated and the treated effluents will be used for, toilet flushing, floor washing, ETP chemical preparation etc. Reuse of treated effluent reduces the consumption of fresh water.

Bund Wall for effluent pit in ETP all tanks.

**b. Effective Dust Control:**

The dust is only generated during charging powder raw material transferring. The same has been effectively controlled with pneumatic charging system & Dust collector devices are installed where ever it is needed this helps in maintaining good ambient air quality.

Charging to processing is a closed loop system through pneumatic conveying pipelines & equipments, More over bag filters are fitted with pulse jet bag filter 20000m<sup>3</sup>/hr, number of filter bags present are 152

Fugitive emission generated during charging powder to equipment is captured by a section hood  
A 30 height stack is attached to it with ID fan

**c. Natural resources conservation**

Several initiatives are undertaken to reduce water, power and fuel consumption. Rain water harvesting pits for ground water recharging have also been implemented.

LED Low capacity air compressor with auto shut off valves for filling machines air line for better control on energy source

**d. Reduction in noise pollution**

Acoustic enclosure has been provided for Diesel Generators and for compressors which has resulted in reduction in noise pollution.

**B. Impacts of Pollution Abatement on the cost of production**

The expenses on the pollution abatement increased the cost of production Rs 76.79.per ton or KL of production.

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**PART H**

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

The focus on Environmental Management system directly from the “Manufacturing Excellence” of “Zero Waste”. The company is determined to improve manufacturing discipline, installing quality system of international standards excellent housekeeping and preventive maintenance is implicit therein. Making the workplace environmental friendly and safe.

The company is producing environment - friendly water based paints only & Heavy metals free (lead free)

**Given below are some of the proposed and sanctioned to initiatives for environmental protection.**

**Procured one Jet Pump in production block's for cleaning of vessels which leads to reduction in Effluent generation**


**VOC Analyser for precaution & presentiveness at working Zones. Instrument procured and the same being used.**

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**PART I**

**Any other particulars for improving the quality of the environment**

1. 100 % Reuse of the Wash Water generated in the Process, thereby reducing the effluent generation.
2. Sludge drying bed of ETP.
3. Plantation in around the plant, 42% of plant area has been committed to it & new plats are added on continual basis
4. ETP is 50KLD as on process with biological treatment (Activated Sludge Process) & ETP can be extended to 100 KLD
5. Installed four fixed AAQM stations in the plant at strategic locations
6. Floor cleaning machines in Production floor.

Signature	
Name	Devashish Nath
Designation	General Manager Works
Address	Berger Paints India Ltd
Date	25/09/17

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**Annexure I**

**Raw Material Consumption**

S.No	Name of the Raw material	Name of product	Consumption of Raw material per unit of Output (MT/ MT of Production)	
			15-16	16-17
1	Pigment	Emulsion Paints	0.0568	0.079
2	Extenders	Emulsion Paints	0.3886	0.421
3	Additives	Emulsion Paints	0.037	0.190
4	Solvents	Emulsion Paints	0.0002	0.101
5	Resins	Emulsion Paints	0.0368	0.114

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**Annexure II  
Water Pollutants**

S.No	Parameter	Quantum of pollutants discharged (kg/per day)	Conc. of pollutants in discharges (mg/Lit)	Percentage of variation from prescribed standards	Reasons
1	pH	7.9	7.9	NA	No Variations
2	Suspended solids (mg/l),Max	0.691	37.00	-63.00	
4	Oil & Grease (mg/l),Max	0.060	3.20	-68.00	
5	BOD (3 days at 27 <sup>o</sup> C) (mg/l),Max	0.372	19.90	-60.20	
6	COD (mg/l),Max	2.522	135	-46	
7	Lead as Pb (mg/l),Max	0.000	<0.0050	-95.00	
8	Hexavalent Chromium as Cr <sup>=6</sup> (mg/l),Max	0.001	<0.0300	-70.00	
9	Total Chromium as Cr (mg/l),Max	0.001	<0.0300	-98.50	
10	Copper as Cu (mg/l),Max	0.000	<0.0100	-99.50	
11	Zinc as Zn (mg/l),Max	0.003	0.136	-97.28	
12	Nickel as Ni (mg/l),Max	0.000	<0.01	-99.50	
13	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH(mg/l),Max	0.001	<0.04	-96.00	
14	Bio- Assay test	NA	90% survival of fish after 96hrs in 100% effluent	NA	



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**Annexure III**

**Air Pollutants**

**SPM for DG sets and Dust Collector**

Sr. No	Stack attached to	Quantity of Pollutants discharged (kg/day)	Concentration of Pollutants discharged (mg/Nm <sup>3</sup> )	Percentage of variation from prescribed Standards with reasons.	Reasons
1	D.G. 1	0.000608264	27	-73%	- ve sign indicates the performance is much better than the prescribed standards
2	D.G. 2	0.036601811	24	-76%	
3	D.G. 3	0.00645	30	-70%	
4	Dust collector	5.48576	31	-69%	

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**Annexure IV**

**Hazardous Wastes**

Category	S.No	Waste Source	Waste Category*	Total Quantity	
				FY 15-16	FY 16-17
A	From Process				
	1	Empty polythene Bags(kgs)	34.3	9510	53970
	2	Used Containers(No's)	34.3	2747	11430
	3	Waste Oil(kgs)	5.1	0	0
B	From pollution control facility				
	1	ETP Sludge(kg)	34.3	41.74	70.3

\* Category as per Hazardous waste (M& H) Rules 2008

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**Annexure V  
Solid Wastes**

	Waste Source	Total Quantity during the Financial Year		
		Unit	15-16	16-17
<b>A</b>	<b>From Process</b>			
	1. Wooden Scrap	Kgs	55670	38440
	2. Papers/Cartons	Kgs	106600	63120
	3. Metal Scrap	Kgs	17990	11510
	4. HDPE lids	Kgs	1610	13570
<b>B</b>	<b>From pollution control facility</b>		NIL	NIL
<b>C</b>	<b>Quantity recycled or re-utilized within the unit</b>		NIL	NIL

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**Annexure VI**

**Hazardous waste Characterisation and Composition**

S. No.	Waste	Characterisation/ Composition	Method of Disposal
1	Container & Container Liners of Hazardous Waste & Chemicals	HDPE/Polyethylene/cellulous and Organic/Inorganic chemicals	Sent to authorized re-processors/ Recyclers after complete detoxification.

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***Solid wastes Characterisation and Composition***

<b>S. No.</b>	<b>Waste</b>	<b>Characterisation/ Composition</b>	<b>Method of Disposal</b>
1.	HDPE lids	Not Applicable	Sold to traders
2.	Wooden Scrap	Not Applicable	Sold to traders
3.	Papers/Cartons	Not Applicable	Sold to traders
4.	Metal Scrap	Not Applicable	Sold to traders