



27<sup>th</sup> July, 2021

To,

**The Environmental Engineer,  
Andhra Pradesh Pollution Control Board,  
Regional Office,  
Anantapuram, A.P**

Dear Sir,

Please find the enclosed "**ENVIRONMENTAL STATEMENT**" for the year 2020-2021.

Please acknowledge the receipt for the same.

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

**Venkata Apparao. D**  
Factory Manager



Encl: Environmental Statement 2020-21

**BERGER PAINTS INDIA LIMITED**

Plot No. 262, Industrial Growth Centre Thumukunta Village, Hindupur-515211 Dist. Anantapur (A.P.)

Regd. Office : 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> Mar'2021**

**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      907 KLD Water based Distemper Paints      160 MTPD
(iv) Year of Establishment	26.12.2013
(v) Date of the last Environmental Statement submitted	22.09.2020

**PART B**

**Water and Raw Material Consumption**

**i. Water Consumption**

Description	Qty As per CFO	Qty Actual Consumed
Process water	320 m3 / D	73.42 m3/D
Cooling tower make up	1 m3 / D	0.98 m3/D
Plant & Process wash, QC	2 m3 / D	1.86 m3/D
Fire fighting make up	1 m3 / D	0.95 m3/D
Domestic	7 m3 / D	6.86 m3/D
Gardening	7 m3 / D	6.8 m3/D



**ENVIRONMENTAL STATEMENT (FORM V)  
FOR THE FINANCIAL YEAR ENDING 31<sup>ST</sup> Mar'2021**

Name of the product	Process water consumption (m <sup>3</sup> / KL of Production)	
	FY 19 -20	FY 20-21
Paints	0.55	0.443

Note:

**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
- b. Air

**Annexure II [page 7]**

**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]**





**ENVIRONMENTAL STATEMENT (FORM V)  
FOR THE FINANCIAL YEAR ENDING 31<sup>ST</sup> Mar'2021**

**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.

**b. Effective Dust Control:**

The dust is only generated during charging and transferring of powder raw material. 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.

Fugitive emission generated during charging powder to equipment is captured by a suction 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.

Water Conservation: Rain water harvesting pits for ground water recharging have also been implemented. Reuse of ETP treated water for toilet flushing. Sequencing of batches to minimize equipment washings.

Energy conservation: LED, Low capacity air compressor with auto shut off valves for filling machines.

**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 40 per ton or KL of production.

**ENVIRONMENTAL STATEMENT (FORM V)  
FOR THE FINANCIAL YEAR ENDING 31<sup>ST</sup> Mar'2021**

**PART H**

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

The focus on Environmental Management system forms a part of our "Manufacturing Excellence" which aims at "Zero Waste" generation. The company is determined to improve manufacturing discipline, implementing 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 which are free from Heavy metals (lead free)

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

- Provision for receipt of powder Raw material in bulker and loading into silo system work under progress. This will reduce dust generation levels to greater extent.
- Disposal of raw material covers in a closed bags in order to reduce the spillage.
- Installation of Breather valve to all the solvent storage tanks.
- Water conservation initiative started.
- Optimized operation of Bulk energy consuming devices such as TSD's, Mixers by installing Timers.

**ENVIRONMENTAL STATEMENT (FORM V)  
FOR THE FINANCIAL YEAR ENDING 31<sup>ST</sup> Mar'2021**

**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. Saplings were planted on continual basis. ✓
4. Floor cleaning machines in Production floor.
5. Installation of Oil seal to prevent leakages from TSD slurry transfer screw pumps.
6. Installed Solar panels as an alternate source of electricity. 990 KW capacity Solar panel was installed.
7. Battery operated fork lift in production to control emissions of fossil fuel burning.

Signature	
Name	Venkata Apparao D
Designation	Factory Manager
Address	Berger Paints India Ltd
Date	26.07.2021



**ENVIRONMENTAL STATEMENT (FORM V)  
FOR THE FINANCIAL YEAR ENDING 31<sup>ST</sup> Mar'2021**

**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)	
			19-20	20-21
1	Pigment	Emulsion Paints	0.0827	0.129
2	Extenders	Emulsion Paints	0.357	0.458
3	Additives	Emulsion Paints	0.049	0.06
4	Solvents	Emulsion Paints	0.0129	0.0132
5	Resins	Emulsion Paints	0.224	0.26
6	Chemicals	Emulsion Paints	0.00193	0.00187

**ENVIRONMENTAL STATEMENT (FORM V)  
FOR THE FINANCIAL YEAR ENDING 31<sup>ST</sup> Mar'2021**

**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	7.48	7.48	NA	- ve sign indicates the performance is much better than the prescribed standard
2	Suspended solids	0.35	22	-78	
3	BOD <sub>3</sub> at 27 <sup>o</sup> C	0.17	14.4	-71.2	
4	Phenolic Compounds	#VALUE!	<0.001	#VALUE!	
5	Oil & Grease	0.0473	3	-70	
6	Bio Assay	#VALUE!	90% survival	NA	
7	Lead as Pb	#VALUE!	<0.005	-95	
8	Chromium (VI)	#VALUE!	<0.03	-70	
9	Chromium	#VALUE!	<0.03	-98.5	
10	Copper as Cu	#VALUE!	<0.01	-99.6	
11	Nickel as Ni	#VALUE!	<0.01	-99.6	
12	Zinc as Zn	0.000	0.012	-99.76	
13	COD	2.396	152	-39.2	



**ENVIRONMENTAL STATEMENT (FORM V)  
FOR THE FINANCIAL YEAR ENDING 31<sup>ST</sup> Mar'2021**

**Annexure III**

**Air Pollutants**

**SPM for DG sets and Dust Collector**

Sr. No	Stack attached to	Concentration of Pollutants discharged (mg/Nm <sup>3</sup> )	Percentage of variation from prescribed Standards with reasons.	Reasons
1	D.G. 1(g/Kw-Hr)	0.179	-10.5	- ve sign indicates the performance is much better than the prescribed standards
2	D.G. 2	61	-18.6	
3	D.G. 3	62	-17.3	
4	Dust collector	39	-48	

**ENVIRONMENTAL STATEMENT (FORM V)  
FOR THE FINANCIAL YEAR ENDING 31<sup>ST</sup> Mar'2021**

**Annexure IV**

**Hazardous Wastes**

Category	S.No	Waste Source	Waste Category*	Total Quantity	
				FY 19-20	FY 20-21
A	From Process				
	1	Empty polythene Bags(kgs)	33.3	79570	63234
	2	Used Containers(No's)	33.3	35785	17832
	3	Waste Oil(kgs)	5.1	0	1.18
B	From pollution control facility				
	1	ETP Sludge(Ton)	34.3	192.75	97.22

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

**ENVIRONMENTAL STATEMENT (FORM V)  
FOR THE FINANCIAL YEAR ENDING 31<sup>ST</sup> Mar'2021**

**Annexure V  
Solid Wastes**

	Waste Source	Total Quantity during the Financial Year		
		Unit	19-20	20-21
<b>A</b>	<b>From Process</b>			
	1. Wooden Scrap	Kg	86490	86750
	2. Papers/Cartons	Kg	57920	72950
	3. Metal Scrap	Kg	26900	9670
	4. HDPE lids	Kg	2310	4520
<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

**ENVIRONMENTAL STATEMENT (FORM V)  
FOR THE FINANCIAL YEAR ENDING 31<sup>ST</sup> Mar'2021**

**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.



**ENVIRONMENTAL STATEMENT (FORM V)  
FOR THE FINANCIAL YEAR ENDING 31<sup>ST</sup> Mar'2021**

***Solid wastes Characterisation and Composition***

S. No.	Waste	Characterisation/ Composition	Method of Disposal
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