22nd September, 2020

To,

The Environmental Engineer,

Andhra Pradesh Pollution Control Board,

Regional Office,

Anantapuram,

Andhra Pradesh

Dear Sir,

Please find enclosed herewith "**ENVIRONMENTAL STATEMENT (FORM V)**" for the year 2019-2020.

Please acknowledge the receipt for the same.

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

Venkata Apparao D
Factory Manager

Encl: Environmental Statement 2019-2020

BERGER PAINTS INDIA LIMITED
Plot .No.262 Aplic Growth Center,Thumakunta Village,Hindupur,Anantapur, Andhra Pradesh-515211
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 31ST Mar'2020

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	25.09.2019

PART B

Water and Raw Material Consumption

i. Water Consumption

Description	Qty As per CFO	Qty Actual Consumed
Process water	320 m3 / D	70.35 m3/D
Cooling tower make up	1 m3 / D	0.86 m3/D
Plant & Process wash, QC	2 m3 / D	1.62 m3/D
Fire fighting make up	1 m3 / D	0.94 m3/D
Domestic	7 m3 / D	6.55 m3/D
Gardening	7 m3 / D	6.7 m3/D

ENVIRONMENTAL STATEMENT (FORM V)
FOR THE FINANCIAL YEAR ENDING 31ST Mar'2020

Name of the product	Process water consumption (m^3 / KL of Production)	
	FY 18 -19	FY 19 -20
Paints	0.50	0.55

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]

ENVIRONMENTAL STATEMENT (FORM V)
FOR THE FINANCIAL YEAR ENDING 31ST Mar'2020

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 powder raw material. The same has been effectively controlled with pneumatic charging system & Dust collector devices .

Charging to processing is a closed loop system through pneumatic conveying pipelines & equipments,

More over bag filters are fitted with pulse jet bag filter 20000m3/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. 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

Reuse of ETP treated water for toilet flushing.

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 835 per ton or KL of production.

ENVIRONMENTAL STATEMENT (FORM V)
FOR THE FINANCIAL YEAR ENDING 31ST Mar'2020

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, 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 sanctioned to initiatives for environmental protection.

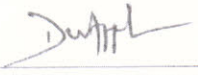
- **Provision for receipt of powder Raw material in bulker and loading into silo system work under progress. This will reduce dust generation levels to greater extent.**

ENVIRONMENTAL STATEMENT (FORM V)
FOR THE FINANCIAL YEAR ENDING 31ST Mar'2020

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	22.09.2019

ENVIRONMENTAL STATEMENT (FORM V)
FOR THE FINANCIAL YEAR ENDING 31ST Mar'2020

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)	
			18-19	19-20
1	Pigment	Emulsion Paints	0.071	0.0827
2	Extenders	Emulsion Paints	0.33	0.357
3	Additives	Emulsion Paints	0.052	0.049
4	Solvents	Emulsion Paints	0.0076	0.0129
5	Resins	Emulsion Paints	0.21	0.224
6	Chemicals	Emulsion Paints	0.002	0.00193

ENVIRONMENTAL STATEMENT (FORM V)
FOR THE FINANCIAL YEAR ENDING 31ST Mar'2020

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	7.65	7.89	NA	- ve sign indicates the performance is much better than the prescribed standard
2	Suspended solids	0.32	52	-48	
3	BOD_3 at $27^{O}C$	0.22	14.5	-71	
4	Phenolic Compounds	0	<0.001	-99.90	
5	Oil & Grease	0.035	<1 ppm	10	
6	Bio Assay	NA	90% survival	NA	
7	Lead as Pb	0	<0.005	-95.0	
8	Chromium (VI)	0	<0.03	-70	
9	Chromium	0	<0.03	-98.5	
10	Copper as Cu	0	<0.01	-99.6	
11	Nickel as Ni	0	<0.01	-99.6	
12	Zinc as Zn	0.004	0.355	-88.16	
13	COD	1.703	150	-40	

ENVIRONMENTAL STATEMENT (FORM V)
FOR THE FINANCIAL YEAR ENDING 31ST Mar'2020

Annexure III

Air Pollutants

SPM for DG sets and Dust Collector

Sr. No	Stack attached to	Concentration of Pollutants discharged (mg/Nm^3)	Percentage of variation from prescribed Standards with reasons.	Reasons
1	D.G. 1(g/Kw-Hr)	0.155	22.5	- ve sign indicates the performance is much better than the prescribed standards
2	D.G. 2	46.7	-37	
3	D.G. 3	58.3	-22	
4	Dust collector	38	-49.33	

ENVIRONMENTAL STATEMENT (FORM V)
FOR THE FINANCIAL YEAR ENDING 31ST Mar'2020

Annexure IV

Hazardous Wastes

Category	S.No	Waste Source	Waste Category*	Total Quantity	
				FY 18-19	FY 19-20
A	From Process				
	1	Empty polythene Bags(kgs)	33.3	82600	79570
	2	Used Containers(No's)	33.3	29025	35785
	3	Waste Oil(kgs)	5.1	0	0
B	From pollution control facility				
	1	ETP Sludge(Ton)	34.3	63.09	192.75

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

ENVIRONMENTAL STATEMENT (FORM V)
FOR THE FINANCIAL YEAR ENDING 31ST Mar'2020

Annexure V

Solid Wastes

	Waste Source	Total Quantity during the Financial Year		
		Unit	18-19	19-20
A	From Process			
	1.Wooden Scrap	Kg	88170	86490
	2.Papers/Cartons	Kg	119380	57920
	3. Metal Scrap	Kg	14520	26900
	4. HDPE lids	Kg	1916	2310
B	From pollution control facility		NIL	NIL
C	Quantity recycled or re-utilized within the unit		NIL	NIL

ENVIRONMENTAL STATEMENT (FORM V)
FOR THE FINANCIAL YEAR ENDING 31ST Mar'2020

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 31ST Mar'2020

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