15th September 2022

To,

The Environmental Engineer,

Andhra Pradesh Pollution Control Board,

Regional Office, Ananthapuramu,

Andhra Pradesh

Dear Sir,

Please find enclosed herewith "**ENVIRONMENTAL STATEMENT (FORM V)**" for the year 2021-2022.

Please acknowledge the receipt for the same.

Encl: Environmental Statement 2021-2022

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

VENKATA APPARAO D
GENERAL MANAGER

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 31ST March 2022

PART - A

(i) Name and address of the Occupier of the industry	:	Shri Abhijit Roy Managing Director M/s Berger Paints India Ltd. Kolkata
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	:	2014
(v) Date of the last Environmental Statement submitted	:	27.07.2021

PART B

Water and Raw Material Consumption

i. Water Consumption

Description	Qty As per CFO	Qty Actual Consumed
Process water	320 m3 / D	108.05 m3/D
Cooling tower make up	1 m3 / D	0.93 m3/D
Plant & Process wash, QC	2 m3 / D	1.77 m3/D
Fire fighting make up	1 m3 / D	0.82 m3/D
Domestic	7 m3 / D	6.81 m3/D
Gardening	7 m3 / D	5.81 m3/D

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Name of the product	Process water consumption (m^3 / KL of Production)	
	FY 20 - 21	FY 21 - 22
Paints	0.443	0.468

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 — 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.

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 wherever it is needed this helps in maintaining good ambient air quality.
Charging to processing is a closed loop system through pneumatic conveying pipelines & equipments,
Moreover 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 m height stack is attached to it with ID fan

c. Natural resources conservation

Several initiatives are undertaken to reduce water, power and fuel consumption. Rainwater 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 14.41 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 is evident from the "Manufacturing Excellence" & "minimizing 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 environment 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 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 to reduce the spillage.
- Installation of Breather valve for liquor ammonia tank.

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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. 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. 992 KW capacity Solar panel was installed.
7. Battery operated forklift in production to control emissions of fossil fuel burning.

Signature	
Name	Venkata Apparao D
Designation	General Manager
Address	Berger Paints India Ltd
Date	14.09.2022

ENVIRONMENTAL STATEMENT (FORM V)
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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)	
			20-21	21-22
1	Pigment	Emulsion Paints	0.129	0.088
2	Extenders	Emulsion Paints	0.458	0.357
3	Additives	Emulsion Paints	0.06	0.062
4	Solvents	Emulsion Paints	NA	NA
5	Resins	Emulsion Paints	NA	NA
6	Chemicals	Emulsion Paints	0.0019	0.0022

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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	8.1	-	NA	- ve sign indicates the performance is much better than the prescribed standard
2	Suspended solids	0.46	29	-71	
3	BOD_3 at $27^{O}C$	0.24	21	-58	
4	Phenolic Compounds	0.00001	<0.001	-99.9	
5	Oil & Grease	0.0315	2	-80	
6	Bioassay	NA	90% survival	NA	
7	Lead as Pb	0.00005	<0.005	-95	
8	Chromium (VI)	0.00034	<0.03	-70	
9	Chromium	0.0007	0.061	-97	
10	Copper as Cu	0.0001	<0.01	-99.7	
11	Nickel as Ni	0.0001	<0.01	-99.7	
12	Zinc as Zn	0.002	0.009	-98	
13	COD	2.931	186	-25.6	

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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)	0.127	-36.5	- ve sign indicates the performance is much better than the prescribed standards
2	D.G. 2	46	-38.7	
3	D.G. 3	52	-30.7	
4	Dust collector	30.8	-	

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Annexure IV

Hazardous Wastes (disposal)

Category	S.No.	Waste Source	Waste Category*	Total Quantity	
				FY 20-21	FY 21-22
A	From Process				
	1	Empty polythene Bags(kgs)	33.1	75000	76386
	2	Used Containers (Nos)	33.1	22914	18173
	3	Waste Oil(kgs)	5.1	1.18	-
B	From pollution control facility				
	1	ETP Sludge (Ton)	35.3	97.22	129.73

* Category as per Hazardous waste (M&H) Rules 2016

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Annexure V

Solid Wastes

	Waste Source	Total Quantity during the Financial Year		
		Unit	20-21	21-22
A	From Process			
	1.Wooden Scrap	Kg	86490	101350
	2.Papers/Cartons	Kg	57920	116950
	3. Metal Scrap	Kg	26900	36490
	4. HDPE lids	Kg	2310	NIL
B	From pollution control facility		NIL	NIL
C	Quantity recycled or re-utilized within the unit		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

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