



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

Environmental Audit Report for the financial Year ending the 31st March 2020

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000028676

### Submitted Date

29-09-2020

### Company Information

#### Company Name

Sudarshan Chemical Ind Ltd

#### Application UAN number

MPCB-CONSENT-0000001048

#### Address

44, 44(part), 45,46, 46(part), MIDC Dhatav, Tal-Roha.  
Dist-Raigad

#### Plot no

44, 44 (Part), 45, 46, 46 (Part)

#### Taluka

Roha

#### Village

Dhatav

#### Capital Investment (In lakhs)

55148.00

#### Scale

L.S.I

#### City

Raigad

#### Pincode

402116

#### Person Name

Bala Venkata Praveen Inala

#### Designation

GM- EHS

#### Telephone Number

7798988239

#### Fax Number

0

#### Email

binala@sudarshan.com

#### Region

SRO-Raigad II

#### Industry Category

Red

#### Industry Type

other

#### Last Environmental statement submitted online

yes

#### Consent Number

Format 1.0/BO/CAC/Cell/UAN  
No.0000001048/Amend/17 th CAC-1912000014

#### Consent Issue Date

13/12/2019

#### Consent Valid Upto

31/07/2020

### Product Information

Product Name	Consent Quantity	Actual Quantity	UOM
Pesticide Formulation Liquid	5000	0	KL/A
Pesticide Formulation Solid	1200	0	MT/A
Pigments	30744	24411.68	MT/A
Intermediates	4824	2588	MT/A
Pesticide Technical	5958	0.0	MT/A

### By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
Phosphoric Acid (12-15%)	3000	2919.96	MT/A
Recovered Pigments	72	16.68	MT/A
Co- generation	10	10	Mwh

### 1) Water Consumption in m3/day

Water Consumption for

Consent Quantity in m3/day

Actual Quantity in m3/day

<b>Process</b>	7963	7075.74
<b>Cooling</b>	1038	929.94
<b>Domestic</b>	288	211.085
<b>All others</b>	110	0
<b>Total</b>	9399	8216.77

### **1) Effluent Generation in CMD / MLD**

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Trade Effluent	7412	6708	CMD
Domestic Effluent	208	185	CMD

### **2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)**

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Pesticides/Insecticides/fungicides/Herbicides	0	0	Ton/Ton
Pesticides/Insecticides/fungicides/Herbicides	0	0	Ton/Ton
Pigments and Intermediaries	66	72	Ton/Ton
Pigments and Intermediaries	471	28	Ton/Ton
Pesticides (Technical) (excluding formulation )	94	0	Ton/Ton

### **3) Raw Material Consumption (Consumption of raw material per unit of product)**

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
HYDROCHLORIC ACID	0.348	0.363	Ton/Ton
CAUSTIC SODA LYE	0.252	0.233	Ton/Ton
NITRIC ACID (58%)	0.202	0.189	Ton/Ton
UNCALCINED MICA	0.095	0.074	Ton/Ton
SODIUM NITRITE	0.095	0.091	Ton/Ton
SODIUM BICHROMATE	0.0059	0.064	Ton/Ton
ACETIC ACID	0.059	0.055	Ton/Ton
TITANIUM TETRA CHLORIDE	0.039	0.047	Ton/Ton
HYDRATED LIME 85%	0.049	0.060	Ton/Ton
DIETHYL THIOPHOSPHORYL CHLORIDE	0.000	0.00	Ton/Ton
MIXED XYLENE	0.000	0.000	Ton/Ton
TITANIUM OXY-CHLORIDE	0.018	0.011	Ton/Ton
CALCIUM CHLORIDE	0.052	0.052	Ton/Ton
M.S. PUNCHING / SCRAP	0.049	0.047	Ton/Ton
SULPHURIC ACID	0.053	0.072	Ton/Ton
1-PHENYL-3-HYDROXY-1,2,4-TRIAZOLE	0.000	0.000	Ton/Ton
LITHARGE (V)	0.030	0.026	Ton/Ton
SODIUM BICHROMATE ANHYDROUS	0.008	0.010	Ton/Ton
Bon Acid	0.045	0.037	Ton/Ton

ALUMINIUM SULPHATE	0.043	0.037	Ton/Ton
3,3' Dichlorobenzidine Dihydrochloride	0.056	0.056	Ton/Ton
NAPHTHOL ASPH	0.020	0.019	Ton/Ton
C-ACID	0.027	0.017	Ton/Ton
SODIUM CARBONATE (SODA ASH LIGHT)	0.000	0.000	Ton/Ton
METHANOL	0.052	0.066	Ton/Ton
2B-ACID	0.019	0.019	Ton/Ton
PHOSPHORUS PENTOXIDE	0.027	0.027	Ton/Ton
BETA NAPHTHOL	0.021	0.017	Ton/Ton
LIQUOR AMMONIA	0.014	0.013	Ton/Ton
PHOSPHORIC ACID	0.017	0.018	Ton/Ton
BARIUM CHLORIDE	0.029	0.025	Ton/Ton
Sodium Silicate	0.019	0.016	Ton/Ton
FERROUS SULPHATE	0.009	0.006	Ton/Ton
SODIUM SULPHATE	0.013	0.011	Ton/Ton
BETA NAPHTHOL TR	0.014	0.011	Ton/Ton
MICA	0.095	0.095	Ton/Ton
4B ACID (TECHNICAL)	0.014	0.018	Ton/Ton
SODIUM ACETATE (CRYSTAL)	0.018	0.017	Ton/Ton
ACETO ACET META XYLIDIDE	0.025	0.024	Ton/Ton
DIMETHYL SUCCINYL SUCCINATE	0.012	0.011	Ton/Ton
NAPHTHOL AS	0.023	0.020	Ton/Ton
BARIUM SULPHATE	0.019	0.014	Ton/Ton
ACETO ACETYL ORTHO TOLUDINE	0.016	0.017	Ton/Ton
SODA ASH	0.015	0.016	Ton/Ton
META NITRO PARA TOLUIDINE (Std Quality)	0.010	0.007	Ton/Ton
C-ACID	0.011	0.016	Ton/Ton
SODIUM HYDROGEN SULPHIDE (Liquid)	0.010	0.008	Ton/Ton
ACETO ACET ANILIDE	0.022	0.022	Ton/Ton
FAST RED B BASE	0.013	0.014	Ton/Ton
ACETO ACET ORTHO ANISIDIDE	0.023	0.029	Ton/Ton
TRIMETHYL PHOSPHITE	0.000	0.000	Ton/Ton
ACETO ACET ANILIDE	0.003	0.022	Ton/Ton
ARO SALT	0.012	0.010	Ton/Ton
NAPHTHOL ASD	0.005	0.006	Ton/Ton

#### **4) Fuel Consumption**

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Coal	107432	77086.610	MT/A
HSD	36600	19895	MT/A

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

**[A] Water**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
pH	-	7.95	0	6.5-8.5	Nil
Suspended Solid	343.82	48.0	0	100	Nil
BOD	193.4	27.0	0	30	Nil
COD	1227.26	171.3	0	250	Nil
Oil & Grease	11.81	1.6	0	10	Nil
Lead	0.4	0.1	0	0.1	Nil
Cadmium	1.64	0.2	0	2	Nil
Zinc	0.54	0.10	0	1	Nil
Selenium	0.090	0.000	0	0.05	Nil
Phosphate	1.19	0.166	0	5	Nil
Phenol & Phenolic compounds as C6H5	0.01	0.000	0	1	Nil
Cyanide	0.009	0.000	0	0.2	Nil
Mercury	0.006	0.000	0	0.01	Nil
Arsenic	0.00	0.000	0	0.2	Nil
Manganese	0.00	0.1	0	1	Nil
Copper	0.00	0.00	0	1	Nil

**[B] Air (Stack)**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
SPM	152.4	20.9	0	150	Nil
SO2 (Boiler)	765.27	-	0	1200	Nil
SO2 (Process)	5.02	6.3	0	50	Nil
HCl	2.1	1.5	0	20	Nil
CL2	1.3	0.6	0	5	Nil
H2S	0	0	0	5	Nil
NH3	0.02	1.80	0	30	Nil
PM with pesticides compounds	0.0	0.0	0	20	Nil
CH3CL	0.0	0.0	0	20	Nil
HBr	0.0	0.0	0	5	Nil

**HAZARDOUS WASTES****1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
15.2 Discarded asbestos	0	0.5	MT/A

37.2 Ash from incinerator and flue gas cleaning residue	0	0.1	MT/A
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	0	26.13	MT/A
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	3087	3250	Nos./Y
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	1.36	0.83	MT/A
5.1 Used or spent oil	0	8.2	KL/A
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	0	7953	Nos./Y
Other Hazardous Waste	0	2919.96	KL/A
Other Hazardous Waste	0	16.68	MT/A

## 2) From Pollution Control Facilities

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
35.3 Chemical sludge from waste water treatment	1996.08	2928	MT/A
37.2 Ash from incinerator and flue gas cleaning residue	0	3	MT/A

## SOLID WASTES

### 1) From Process

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Boiler Ash	3862.11	5291.39	MT/A
Paper, Plastic, seepages	64.32	85.944	MT/A
Canteen waste	0	0	MT/A
Plastic	91.780	66.04	MT/A

### 2) From Pollution Control Facilities

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Excess Biomass	240	420.31	MT/A

### 3) Quantity Recycled or Re-utilized within the unit

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
26.1 Process waste sludge/residues containing acid, toxic metals, organic compounds	9.71	7.25	MT/A

**Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

### 1) Hazardous Waste

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	3250	Nos./Y	-
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	26.13	MT/A	-
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	0.83	MT/A	-
37.2 Ash from incinerator and flue gas cleaning residue	0.1	MT/A	-
35.3 Chemical sludge from waste water treatment	2928	MT/A	-
15.2 Discarded asbestos	0.5	MT/A	-
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	7953	Nos./Y	-

37.2 Ash from incinerator and flue gas cleaning residue	3	MT/A	-
5.1 Used or spent oil	8.2	MT/A	-
Other Hazardous Waste	2919.96	MT/A	spent phosphoric acid
Other Hazardous Waste	16.68	MT/A	Recovered pigment

## **2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Boiler Ash	5291.39	MT/A	-
Paper,Plastic, Seepages	85.944	MT/A	-
Canteen Waste	0	MT/A	-
Plastic	66.04	MT/A	-
Excess Biomass	420.310	MT/A	-

### **Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.**

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
-	-	-	-	-	-	-

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

#### **[A] Investment made during the period of Environmental Statement**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Stream segregation	Stream segregation in AZO plant	25
Air pollution control	Stack revamping done	10
Air pollution control	Air wash unit and duct revamping and modification in MICA plant	50
Air pollution control	Upgradation of cyclone separator in pigment area	40

#### **[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Air pollution control	Stacks installation and upgradations	70

### **Any other particulars in respect of environmental protection and abatement of pollution.**

#### **Particulars**

Total 500 tress planted on WED. Environment week was celebrated on occasion of Environment Day. Environment were carried out like plastic free village. Environmental awareness competitions were conducted like posters competition etc.

#### **Name & Designation**

Murali L P (DGM-EHS)