



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2022

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000044032

Submitted Date

16-08-2022

PART A

Company Information

Company Name

Inventys Research Company Pvt Ltd

Application UAN number

MPCB-CONSENT-0000119091

Address

Inventys Research Company Pvt limited

Plot no

K-38, Five Star Industrial Area MIDC Butibori

Taluka

Hingna

Village

Kirmiti

Capital Investment (In lakhs)

13031

Scale

MSI

City

NAGPUR

Pincode

441122

Person Name

Shrikant Kanadey

Designation

DGM Operations

Telephone Number

09619666336

Fax Number

0

Email

MPCB@inventys.in

Region

SRO-Nagpur II

Industry Category

Red

Industry Type

R22 Organic Chemicals manufacturing

Last Environmental statement submitted online

yes

Consent Number

No:- Format1.0/CC/UAN
No.0000121034/CR/2205000385

Consent Issue Date

2021-05-07

Consent Valid Upto

2026-07-31

Establishment Year

2008

Date of last environment statement submitted

Sep 30 2021 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

sP5

Consent Quantity

300

Actual Quantity

298.40

UOM

MT/A

P202

120

17.82

MT/A

P487

12

1.788

MT/A

P471

10

0.724

MT/A

P452

12

0.753

MT/A

P207

60

0.447

MT/A

P518

36

0.086

MT/A

P519	12	7.571	MT/A
P516	12	3.443	MT/A
P508	12	0.21	MT/A

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
Recovered Methanol	51.60	1028.52	MT/A
Sodium Sulphate	715.2	401.9	MT/A
Spent Sulphuric Acid	548.4	73.2	MT/A
Spent Hydrobromic Acid Solution	38.4	26.184	MT/A
Spent Sodium Bromide Solution	184.8	16.1	MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	320	267.00
Domestic	50	22.00
All others	10	5.00
Total	499	335.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	154.8	30	CMD
Domestic Effluent	47.5	23	CMD

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

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
sP5	0	30	CMD
P202	10	98	CMD
P487	0	20	CMD
P471	0	19	CMD
P452	0	25	CMD
P207	0	27	CMD
P518	0	26	CMD
P519	0	35	CMD
P516	0	34	CMD
P508	0	45	CMD

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

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
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Acetophenone	0	517.5	MT/A
Sodium Cyanide	0	214.65	MT/A
Liquor Ammonia	0	1033	MT/A
Carbon Di Oxide	0	394.4	MT/A
Methanol	888.15	1836.119	MT/A
Sulphuric acid	435.86	1347.442	MT/A
Caustic Soda lye	523.40	206.339	MT/A
Caustic Soda Flakes	132.66	243.369	MT/A
Sodium Hypo Chlorite	156.75	63.75	MT/A
Ferrous Sulfate	0	0.85	MT/A
Monochloro Benzene	0	111.761	MT/A
Sodium Carbonate Aihydrous	0	0.6231	MT/A
NMP	112.53	17.602	MT/A
P487	0	9.72	MT/A
Sodium bicarbonate	30.21	7.1908	MT/A
64 % Hydrazine hydrate (HyHy)	29.04	6.839	MT/A
Toluene	116.59	15.727	MT/A
P202.RM07	0	9.6532	MT/A
30% Hydrochloric acid	228.85	48.778	MT/A
Acetic anhydride	103.22	34.955	MT/A
P440	0	16.64	MT/A
P202.RM05	0	16.307	MT/A
Isopropyl Alcohol	11.0	1.698	MT/A
P440.RM02	0	31.25	MT/A
Aluminium Chloride	2.45	1.129	MT/A
Acetic acid	1539.819	35.326	MT/A
Chlorine gas	30	22.25	MT/A
P487. RM01	0	1.2	MT/A
Ammonia Gas	611.326	0.28	MT/A
P487.Catalyst	0	0.102	MT/A
Hydrogen Gas	15.25	0.418	MT/A
Sodium dithionate	0	0.121	MT/A
Activated carbon	0	0.544	MT/A
Ethyl acetate	0	11.986	MT/A
n-Hexane	0	4.04	MT/A
Copper Powder	0	0.15	MT/A
Cuprous Chloride	0	0.127	MT/A
TEBAC	0	0.0924	MT/A
DIPE7.852	0	7.852	MT/A
P471 RM04	0	2.639	MT/A
Bromine	0	5.271	MT/A

Catalyst B	0	0.014	MT/A
Kal Kat catalyst 4061	0	0.24	MT/A
Sodium Bisulfite	0	7.35	MT/A
P452.RM01	0	5.72	MT/A
P452.RM03	0	5.538	MT/A
Sodium Methoxide solution	0	8	MT/A
Hyflow powder	0	0.06	MT/A
TRIETHYLAMINE	0	0.02852	MT/A
DIMETHYLFORMAMIDE	0	0.6324	MT/A
Sodium Acetate	0	0.285	MT/A
ETHYLENE DICHLORIDE	93.66	20.56	MT/A
N-BROMOSUCCINIMIDE	0	0.373	MT/A
AZOBISISOBUTYRONITRILE	0	0.00535	MT/A
Thionyl Chloride	0	2.686	MT/A
Pyridine	0	0.565	MT/A
Sodium Nitrite	0	1.029	MT/A
P518.RM02	0	1.702	MT/A
P518.S1	0	0.85	MT/A
Kal Kat 1961 catalyst	0	0.021	MT/A
Nitric Acid	0	0.438	MT/A
P518.RM03	0	0.7	MT/A
Formic acid	0	0.882	MT/A
Formamide	0	9.967	MT/A
P516.RM01	0	2.575	MT/A
P516.RM02	0	0.645	MT/A
P516.RM03	0	0.689	MT/A
P516.Catalyst 1	0	0.00083	MT/A
P516.Catalyst 2	0	0.0013	MT/A
P516.Catalyst 3	0	0.00008	MT/A
P508.RM 08	0	0.492	MT/A
P508.RM04	0	0.24	MT/A
P508.S1	0	1.02	MT/A
P508.RM03	0	0.59	MT/A

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Bio Mass	12264	6377.06	MT/A
Bio Mass	1095	383.08	MT/A
Bio Mass	788.4	18.95	MT/A

Part-C

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

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
pH	30	8.28	0	6.0 - 9.0	NA
Biochemical Oxygen Demand BOD (3 days 27°C)	30	2.0	0	100	NA
Chemical Oxygen Demand COD	30	230.10	0	250	NA
Total Suspended Solids (TSS)	30	16	0	100	NA
Oil & Grease	30	0.2	0	10	NA
Phenolic Compounds	30	0.003	0	1	NA
Total Dissolved Solids (TDS)	30	384	0	2100	NA
Mercury	30	0.002	0	0.01	NA
Arsenic	30	0.05	0	0.2	NA
Chromium (Hexavalent)	30	0.02	0	0.1	NA
Lead	30	0.02	0	0.1	NA
Cyanide	30	0.05	0	0.1	NA
Sulphide	30	0.06	0	2	NA
Phosphate	30	0.12	0	5	NA
Chloride	30	293.9	0	600	NA
Sulphate	30	145.5	0	1000	NA

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
TPM Boiler Stack -I	7678.383	51.5	NA	100	NA
SO2 Boiler Stack -I	7678.383	13.92	NA	16.48	NA
TPM Boiler Stack -II	19888.93	82.90	NA	100	NA
SO2 Boiler Stack -II	19888.93	37.20	NA	40.32	NA
TPM Hot Oil Unit	5597.603	55.70	NA	100	NA
SO2 Hot Oil Unit	5597.603	18.24	NA	43.20	NA
TPM for Thermic Fluid Heater	1552.13	57.10	NA	100	NA
SO2 for Thermic Fluid Heater	1552.13	2.16	NA	30	NA
TPM for DG Set 125 KVA	379.93	30.5	NA	100	NA
SO2 for DG Set 125 KVA	379.93	0.48	NA	4	NA

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	0.484	0	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	0.396	0.04	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	5.13	1.31	MT/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Fly Ash	572.02	169.70	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Other Hazardous Waste	0	0	Ton/Y

Part-F

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

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	0.484	MT/A	Send to CHWTSDf
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	0.396	MT/A	Send to CHWTSDf
35.3 Chemical sludge from waste water treatment	5.13	MT/A	Send to CHWTSDf

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	Ton/Y	NA

Part-G

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

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
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Part-H**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.****[A] Investment made during the period of Environmental Statement**

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Installation of return pipeline in case of exceedance of parameters	Avoid discharge in exceedance of water parameters	1000000
Quarterly Environment Monitoring by third Party & O&M of ETP	Environment Protection and compliance	309169

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Environment monitoring, Tree Plantation and O&M of ETP	Environment Management	475000

Part-I**Any other particulars for improving the quality of the environment.****Particulars**

Total 221 numbers of Trees and shrubs are planted for carbon sequestration

Name & Designation

Shrinivas Holennavar, DGM Works

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000044032

Submitted On:

16-08-2022