



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000035123

### Submitted Date

12-09-2021

## PART A

### Company Information

#### Company Name

RPG LIFE SCIENCES LIMITED

#### Application UAN number

MPCB-CONSENT-0000067989

#### Address

25/25A, MIDC Land, Thane Belapur  
Road, Pawne, Navi Mumbai

#### Plot no

25/25A, MIDC INDUSTRIAL AREA

#### Taluka

NAVI MUMBAI

#### Village

TTC Industrial Area, Pawne

#### Capital Investment (In lakhs)

8110

#### Scale

L.S.I

#### City

Thane

#### Pincode

400703

#### Person Name

Vinod S. Narkhede

#### Designation

AGM - EHS

#### Telephone Number

9820644773

#### Fax Number

022 27672646

#### Email

vinod.narkhede@rpgls.com

#### Region

SRO-Navi Mumbai I

#### Industry Category

Red

#### Industry Type

R58 Pharmaceuticals

#### Last Environmental statement submitted online

yes

#### Consent Number

BO/CAC-Cell/UAN  
No.0000067989/3rdCAC-1906000884 (Consent  
Renewal Application UAn No. MPCB-  
CONSENT-0000111287, Dated 22.03.2021

#### Consent Issue Date

19.06.2019

#### Consent Valid Upto

30.04.2021

#### Establishment Year

1967

#### Date of last environment statement submitted

Sep 19 2020 12:00:00:000AM

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

NA

### Product Information

#### Product Name

Anti-Psychotic - Haloperidol, Haloperidol deconate, Risperidone, etc.

#### Consent Quantity

9.30

#### Actual Quantity

4.935

UOM  
MT/A

Anti-Arrhythmic class I - Disopyramide Phosphate etc.

0.30

0.108

MT/A

Anti Diarrhoeal - Diphenoxylate HCL etc.

7.20

2.394

MT/A

Immunosuppresant - Azathioprine, Mycophenolate Mofetil, Mycophenolate Sodium etc.

16.80

14.252

MT/A

Collinergic Blockers - Propanthelene bromide etc.

1.50

0.600

MT/A

Anthelmintic - Quinfamide etc.	8.40	6.319	MT/A
Anti Thrombotic / Anti Platelet - Ticlopidine HCL etc.	1.80	0.000	MT/A
Anti Convusant - Lamotrigine etc.	7.20	0.000	MT/A
Anti Ulcerant - Pantoprazol Sodium, Pantoprazol Sequehydrate, etc.	9.60	1.942	MT/A
Anti Depressant - Sertraline HCL, etc.	6.00	0.000	MT/A
Anti Anginal - Nicorandil, etc.	1.80	1.396	MT/A
Anti Hypertensive - Tolvaptan, Benidipine HCL, Solifenacin, etc.	0.36	0.000	MT/A
Anti Hyperparathyroid - Cinacalcet HCL, etc.	0.30	0.000	MT/A
TOTAL PRODUCTION QUANTITY FOR PRODUCT MIX	70.560	31.946	MT/A

### By-product Information

<b>By Product Name</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
--NA--	0	0	MT/A

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
<b>Cooling</b>	76	27.9
<b>Domestic</b>	70	40.2
<b>All others</b>	60	25.0
<b>Total</b>	350	167.5

### 2) Effluent Generation in CMD / MLD

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Trade Effluent	120	78.6	CMD
Sewage	60	46	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>
Anti-Psychotic - Haloperidol, Haloperidol deconate, Risperidone, etc.	125.6	125.6	Ton/Ton
Anti-Arrhythmic class I - Disopyramide Phosphate etc.	0	0	Ton/Ton
Anti Diarrhoeal - Diphenoxylate HCL etc.	45	45	Ton/Ton
Immunosuppresant - Azathioprine, Mycophenolate Mofetil, Mycophenolate Sodium etc.	107.4	107.4	Ton/Ton
Collinergic Blockers - Propanthelene bromide etc.	4.9	4.9	Ton/Ton
Anthelmintic - Quinfamide etc.	14.7	14.7	Ton/Ton
Anti Thrombotic / Anti Platelet - Ticlopidine HCL etc.	0	0	Ton/Ton
Anti Convusant - Lamotrigine etc.	55.4	0	Ton/Ton
Anti Ulcerant - Pantoprazol Sequehydrate, Pantoprazol Sequehydrate, etc.	9.4	9.4	Ton/Ton
Anti Depressant - Sertraline HCL, etc.	16	0	Ton/Ton
Anti Anginal - Nicorandil, etc.	13.4	13.4	Ton/Ton
Anti Hypertensive - Tolvaptan, Benidipine HCL, Solifenacin, etc.	3.37	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>
(+)-METHYL-ALPHA-(2-THIENYLETHAMINO)(2-C	1.000	0.000	Kg/Annum
10% PALADIUM ON CHARCOAL	0.100	0.100	Kg/Annum
2 AMINO PYRIDINE	0.746	0.752	Kg/Annum
2-(2,3-DICHLOROPHENYL)-(GUANIDINOIMINO) ACETONITRILE (SCHIFF BASE)	1.143	0.000	Kg/Annum
2-CHLOROMETHYL-3,4-DIMETHOXY PYRI	0.513	0.513	Kg/Annum
2-FUROIC ACID	0.424	0.417	Kg/Annum
4 BROMO 2-2 DIPHENYL BUTYRO NITRITE	0.000	0.978	Kg/Annum
2-METHYL BENZOYL CHLORIDE	0.400	0.000	Kg/Annum
4-(2-4-DIFLURO BENZOYL OXIME)-PIPRODINE	1.429	1.455	Kg/Annum
4-(2-HYDROXYETHYL) MORPHOLINE	0.488	0.000	Kg/Annum
5-DIFLURO METHOXY-2-MERCAPTO-1H-BENZENE	0.503	0.503	Kg/Annum
AAGBL ALPHA ACETYL GAMMA BUTYROLACTONE	1.045	1.053	Ltr/A
ACETONE	101.306	101.181	Ltr/A
ACETONITRILE	5.182	6.670	Ltr/A
ACTIVATED CARBON	1.968	3.297	Kg/Annum
AMMONIUM SULFATE	1.282	1.282	Kg/Annum
BENZYL TRIETHYL AMMONIUM CHLORIDE (BTEAC)	0.006	0.006	Kg/Annum
CAUSTIC POTASH FLAKES	3.286	3.345	Kg/Annum
CAUSTIC SODA FLAKES	1.245	1.242	Kg/Annum
CAUSTIC SODA LYE	5.754	13.047	Ltr/A
CAUSTIC SODA PALLETS	0.298	0.000	Kg/Annum
CFB	0.818	0.818	Kg/Annum
CFB Ketal	0.400	0.000	Kg/Annum
CHLOROFORM	16.822	11.630	Ltr/A
CPP	0.333	0.333	Kg/Annum
DECONOIC ACID	1.047	1.047	Kg/Annum
DENATURED ABSOLUTE ALCOHOL (5% ACETONE)	18.916	24.049	Ltr/A
DICHLOROACETYL CHLORIDE	0.830	0.805	Kg/Annum
DIETHANOLAMINE	0.500	0.500	Kg/Annum
DIETHYLOXYLATE	1.371	1.374	Kg/Annum
DISOPYRAMIDE BASE	0.940	0.940	Kg/Annum
DIMETHYL FORMAMIDE	15.422	16.083	Ltr/A
DIPC HYDROCHLORIDE	0.799	0.824	Kg/Annum
ETHYL ACETATE	76.743	55.467	Ltr/A
FUMING NITRIC ACID	5.283	10.258	Ltr/A
HEXANE	48.150	37.079	Ltr/A

HYDROCHLORIC ACID	8.206	6.657	Ltr/A
HYDROGEN BROMIDE AQUEOUS 48%	6.908	0.160	Kg/Annum
HYFLO SUPERCEL	0.076	0.135	Kg/Annum
HYPOXANTHINE	0.885	0.885	Kg/Annum
IPA HCL SOLUTION	1.053	0.000	Ltr/A
ISOPROPANOL (IPA)	19.734	66.374	Ltr/A
ISOPROPYL ETHER	12.983	25.804	Ltr/A
L(-) CAMPHOR SULPHONIC ACID	0.525	0.000	Kg/Annum
LIQUOR AMMONIA	11.075	11.168	Ltr/A
METHYLENE CHLORIDE	214.344	58.455	Ltr/A
METHANOL	118.598	13.503	Ltr/A
METHYL BROMIDE	0.898	0.926	Kg/Annum
METHYL ETHYL KETONE (MEK)	10.767	13.796	Kg/Annum
MONO METHYLAMINE SOLUTION	1.685	1.882	Ltr/A
MONOETHANOLAMINE	0.630	1.217	Ltr/A
MYCOPHENOLIC ACID	1.042	0.000	Kg/Annum
NICOTINIC ACID	0.943	1.610	Kg/Annum
NITRIC ACID LR	0.537	0.539	Ltr/A
ORTHO PHOSPHORIC ACID	0.329	0.329	Kg/Annum
P NITRO CHLORO BENZENE	1.181	1.172	Kg/Annum
PARA FORMALDEHYDE 96%	0.130	0.000	Ltr/A
PARA TOLUENE SULPHONYL CHLORIDE	1.131	1.131	Kg/Annum
PHOSPHOROUS OXYCHLORIDE	1.403	1.414	Kg/Annum
PHOSPHOROUS PENTSULPHIDE	0.885	0.885	Kg/Annum
PYRIDINE	3.462	3.540	Ltr/A
SERTALINE MENDATE	1.504	0.000	Kg/Annum
SODIUM BICARBONATE	8.700	2.770	Kg/Annum
SODIUM CARBONATE	4.776	14.123	Kg/Annum
SODIUM CARBONATE ANHYDROUS	0.300	0.300	Kg/Annum
SODIUM DI THIONATE	0.313	0.000	Ltr/A
SODIUM HYPOCHLORITE	3.708	2.549	Ltr/A
SODIUM SULPHATE ANHYDROUS	1.918	1.832	Kg/Annum
SODIUM THIOSULPHATE	0.077	0.77	Kg/Annum
SULPHURIC ACID	5.019	6.210	Kg/Annum
TETRA BUTYL AMMONIUM BROMIDE (TBAB)	0.002	0.002	Kg/Annum
THIONYL CHLORIDE	3.287	3.022	Kg/Annum
TOLUENE	34.693	45.664	Ltr/A
TRIETHYLAMINE	0.735	0.602	Ltr/A
TRIMETHYL ORTHO FORMATE	1.589	1.636	Ltr/A
XANTHALENE-9-CARBOXYLIC ACID	0.808	0.833	Kg/Annum
SODIUM BORO HYDRID	0.142	0.000	Kg/Annum

BROMO DIPHENYL BUTYRONITRILE	0.978	0.000	Kg/Annum
GLYCERIN	0.000	3.333	Ltr/A
P-ANISIDINE	0.000	0.800	Kg/Annum
PHOSPHOROUS PENTACHLORIDE	0.000	2.700	Kg/Annum
SODIUM CHLORIDE	0.000	0.225	Kg/Annum

#### 4) Fuel Consumption

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Furnace Oil	919.8	0	MT/A
Pipeline Natural Gas	277.0	205.5	MT/A
Diesel	728.8	1.80	MT/A

## Part-C

### 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	----	7.0	0	5.5 to 9.0	----
BOD	4.71	37.8	0	< 100 mg/L	----
COD	17.50	140.5	0	< 250 mg/L	----
Suspended Solids	5.55	44.6	0	< 100 mg/L	----
TDS	35.5	284.9	0	< 2100 mg/L	----
Oil & Grease	0.17	1.33	0	< 10 mg/L	----
Free Ammonia	0.02	0.14	0	< 5 mg/L	----
Chloride	6.33	50.79	0	< 600 mg/L	----
Sulfide	0.00	0.00	0	< 2 mg/L	----

#### [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 / TPM (Boiler S-1)	1.90	10.10	0	< 150 mg/Nm3	----
SO2 (Boiler S-1)	3.85	-----	0	< 226 Kg/D	----
SPM / TPM (D.G.Set S-2)	0.47	51.03	0	< 150 mg/Nm3	----
SO2 (D.G.Set S-2)	0.31	30.96	0	< 49 Kg/D	----
(HCL Scrubber MF-1, S-3)	-----	5.63	0	< 35 mg/Nm3	----
H2S Scrubber MF-2, S-4)	-----	4.69	0	< 10 ppm	----
HCL Scrubber MF-3, S-5)	-----	7.08	0	< 35 mg/Nm3	----
HCL Scrubber MF-3, S-6)	-----	5.81	0	< 35 mg/NM3	----
HCL Scrubber MF-1, S-7)	-----	6.99	0	< 35 mg/NM3	----

## Part-D

### 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>
3.3 Sludge and filters contaminated with oil	0.000	0.409	MT/A
5.1 Used or spent oil	0.666	0.401	MT/A
20.3 Distillation residues	0.000	0.000	MT/A
28.1 Process Residue and wastes	22.480	73.246	MT/A
28.2 Spent catalyst	0.000	0.000	MT/A
28.3 Spent carbon	15.805	16.637	MT/A
28.4 Off specification products	0.829	0.000	MT/A
28.5 Date-expired products	0.458	0.154	MT/A
28.6 Spent solvents	364.311	388.997	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	27.560	6.875	MT/A
35.2 Spent ion exchange resin containing toxic metals	0.000	0.618	MT/A
35.4 Oil and grease skimming	0.662	0.270	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	35.230	12.770	MT/A

## Part-E

### 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>
Paper, Wood, Plastic and Metal	9.10	8.94	MT/A
Garbage like paper, Corrugated Boxes, Plastic, Fibre Drums, Brooms, Wipers, Floor cleaning mops, Tea Cups, Disposable aprons, Head caps, Shoe covers etc.	20.30	23.5	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>
Not Applicable	0	0	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>
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	23.80	15.47	MT/A

## 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
5.1 Used or spent oil	0.401	MT/A	Incineration through CHWTSDF
28.1 Process Residue and wastes	73.246	MT/A	Sale to authorized recycler / CHWTSDF
28.3 Spent carbon	16.637	MT/A	Incineration through CHWTSDF
28.5 Date-expired products	0.154	MT/A	Incineration through CHWTSDF
28.6 Spent solvents	388.997	MT/A	Sale to authorized re cycler / re processor / CHWTSDF
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	6.875	MT/A	Reuse / Sale to authorized party / CHWTSDF
35.4 Oil and grease skimming	0.270	MT/A	Incineration through CHWTSDF
35.3 Chemical sludge from waste water treatment	12.770	MT/A	Landfill through CHWTSDF
3.3 Sludge and filters contaminated with oil	0.409	MT/A	Incineration through CHWTSDF
35.2 Spent ion exchange resin containing toxic metals	0.618	MT/A	Landfill through CHWTSDF

### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Paper, Wood, Plastic & Metal	8.94	MT/A	Sale to authorized party
Garbage like Paper, Corrugated Boxes, Plastic, Fibre Drums, Brooms, Wipers, Floor cleaning mops, Tea Cups, Disposable aprons, Head Caps, & Shoe covers etc.	23.5	MT/A	Sale to authorized party
Discarded, Detoxicated containers, Barrels, Liners	15.47	MT/A	Reuse or Sale to authorized party

## 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)
2019-20	-----	-----	-----	-----	-----	-----

## 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 New 50 KL HDPE Tank to collect raw effluent & homogenise it before taking for treatment	To improve effluent treatment process & cycle time	15.00
Replaced Online Continuous Effluent Monitoring System (OCEMS)	To monitor effluent discharge quality 24x7 (Round the clock).	23.00
Carried out Treatability Studies on Effluent	To understand effluent characteristics & biodegradability	4.50

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

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
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Provision of diffusers with Lube Air Blowers	To improve effluent mixing in Effluent collection tank	2.86
Installation of SCADA system at ETP Outlet	To provide discharge control to CETP & monitor effluent quality	11.70
High COD/TDS stream segregation from manufacturing areas	To improve conventional Effluent Treatment process	29.15

## Part-I

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### Any other particulars for improving the quality of the environment.

#### **Particulars**

In an attempt to maintain the clean Environment, & Safety in plant & premises the company has formulated Corporate ENVIRONMENT, HEALTH & SAFETY Policy. The commitments of EHS policy are implemented with support of all interested parties. The implementation includes: Compliance of statutory Acts & Rules. Reduction in Water Consumption, Reduction in Power consumption, Reduction in Fuel (PNG) consumption, Recycle of Empty barrels & PVC Liners.

#### **Name & Designation**

Vinod S. Narkhede, AGM - EHS

#### **UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000035123

#### **Submitted On:**

12-09-2021