



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2019

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000019870

Submitted Date

26-09-2019

Company Information

Company Name

RPG LIFE SCIENCES LIMITED

Application UAN number

MPCB-CONSENT-000000601

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.000000601/3rd CAC - 9964-A

Consent Issue Date

12.04.2017

Consent Valid Upto

30.04.2021

Product Information

Product Name

Diuretic - Spironolactone etc.

Consent Quantity

4

Actual Quantity

0

UOM

MT/A

Anti-Psychotic - Haloperidol, Haloperidol deconate, Olanzapine, Risperidone, Aripiprazol, Quetiapine Hemifumarate etc.

4.2

4.007

MT/A

Anti-Arrhythmic class I - Disopyramide Phosphate etc.

0.15

0

MT/A

Anti-Emetic - Dimenhydrinate etc.

0.12

0

MT/A

Anti Diarrhoeal - Diphenoxylate HCL etc.

12

2.076

MT/A

Immunosuppresant - Azathioprine, Fingolimod, Mycophenolate Mofetil, Mycophenolate Sodium etc.

20

10.742

MT/A

Collinergic Blockers - Propanthelene bromide etc.

1.2

0.377

MT/A

Anthelmentic - Quinfamide etc.

2

8.957

MT/A

Anti Thrombotic / Anti Platelet - Clopidogrel bisulphate, Clopidogrel besylate, Ticlopidine HCL etc.

13.5

0

MT/A

Anti Convusant - Lamotrigine etc.

1.5

4.390

MT/A

Anti Ulcerant - Pantoprazol Sequehydrate, Lafutidine etc.	2.4	1.371	MT/A
Anti Depressant - Sertraline HCL, Escitalopram oxalate etc.	0.63	0.267	MT/A
Anti Anginal - Nicorandil, Ivabradin HCL etc.	6	0.868	MT/A
Anti Alzheimer - Donepezil etc.	0.2	0	MT/A
Anti Hypertensive - Irbesartan, Lercanidipine HCL, Eplirenone, Candisartan celextil, Tolvaptan, Conivaptan, Benidipine HCL, Solifenacin, etc.	1.5	0.008	MT/A
Anti Migrane - Eletriptan etc.	0.2	0	MT/A
Anti gout - Febuxostat etc.	0.2	0	MT/A
Anti Obesity - Orlistate etc.	0.56	0	MT/A
Anti Viral - Tamiflu etc.	0.2	0	MT/A
TOTAL PRODUCTION QUANTITY FOR PRODUCT MIX	70.56	33.063	MT/A

By-product Information

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

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	60	24.9
Domestic	140	58.2
All others	0	0
Total	360	149.6

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	120	70	CMD
Sewage	100	48	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
Diuretic - Spironolactone etc.	0	0	Ton/Ton
Anti-Psychotic - Haloperidol, Haloperidol deconate, Olanzapine, Risperidone, Aripiprazol, Quetiapine Hemifumarate etc.	125.6	125.6	Ton/Ton
Anti-Arrhythmic class I - Disopyramide Phosphate etc.	0	0	Ton/Ton
Anti-Emetic - Dimenhydrinate etc.	0	0	Ton/Ton
Anti Diarrhoeal - Diphenoxylate HCL etc.	45	45	Ton/Ton
Immunosuppresant - Azathioprine, Fingolimod, Mycophenolate Mofetil, Mycophenolate Sodium etc.	107.4	107.4	Ton/Ton
Collinergic Blockers - Propanthelene bromide etc.	4.9	4.9	Ton/Ton
Anthelmentic - Quinfamide etc.	14.7	14.7	Ton/Ton
Anti Thrombotic / Anti Platelet - Clopidogrel bisulphate, Clopidogrel besylate, Ticlopidine etc.	0	0	Ton/Ton
Anti Convusant - Lamotrigine etc.	55.4	55.4	Ton/Ton

Anti Ulcerant - Pantoprazol Sodium, Lafutidine etc.	9.4	9.4	Ton/Ton
Anti Depressant - Sertraline HCL, Escitalopram oxalate etc.	16	16	Ton/Ton
Anti Anginal - Nicorandil, Ivabradin HCL etc.	30	30	Ton/Ton
Anti Alzheimer - Donepezil etc.	0	0	Ton/Ton
Anti Hypertensive - Irbesartan, Lercanidipine HCL, Eplirenone, Candisartan celextil, Tolvaptan, Conivaptan etc.	0	3.37	Ton/Ton
Anti Migrane - Eletriptan etc.	0	0	Ton/Ton
Anti gout - Febuxostat etc.	0	0	Ton/Ton
Anti Obesity - Orlistate etc.	0	0	Ton/Ton
Anti Viral - Tamiflu etc.	0	0	Ton/Ton

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
(+)-METHYL-ALPHA-(2-THIENYLETHAMINO)(2-C	2.367	0.000	
10% PALADIUM ON CHARCOAL	0.033	0.100	
2 AMINO PYRIDINE	0.735	0.750	
2-(2,3-DICHLOROPHENYL)-(GUANIDINOIMINO) ACETONITRILE (SCHIFF BASE)	1.143	1.140	
2-CHLOROMETHYL-3,4-DIMETHOXY PYRI	0.500	0.51	
2-FUROIC ACID	0.417	0.420	
4 BROMO 2-2 DIPHENYL BUTYRO NITRITE	1.133	1.120	
4-CHLORO PHENYL-4-HYDROXY PIPERIDINE	0.000	0.000	
4-(2-4-DIFLURO BENZOYL OXIME)-PIPRODINE	1.429	1.450	
4-(2-HYDROXYETHYL) MORPHOLINE	0.448	0.000	
5-DIFLURO METHOXY-2-MERCAPTO-1H-BENZENE	0.490	0.500	
AAGBL ALPHA ACETYL GAMMA BUTYROLACTONE	1.029	1.050	
ACETIC ACID GLACIAL	0.837	0.000	
ACETONE	121.84	113.93	
ACETONITRILE	6.670	6.670	
ACTIVATED CARBON	1.902	1.830	
AMMONIUM SULFATE	1.250	1.280	
BENZENE SULPHONIC ACID	0.514	0.000	
BENZYL CYANIDE	0.643	0.000	
BENZYL TRIETHYL AMMONIUM CHLORIDE (BTEAC)	0.006	0.010	
CAUSTIC POTASH FLAKES	3.286	3.350	
CAUSTIC SODA FLAKES	1.348	0.910	
CAUSTIC SODA LYE	23.365	4.860	
CAUSTIC SODA PALLETS	0.298	0.000	
CFB	0.804	0.820	
CFB Ketal	0.000	0.000	
CMI Nitrate	0.000	0.000	

CHLOROFORM	11.859	11.630
CPP	0.347	0.330
DECONOIC ACID	1.059	1.020
DENATURED ABSOLUTE ALCOHOL (5% ACETONE)	24.982	24.850
DICHLOROACETYL CHLORIDE	0.830	0.810
DIETHANOLAMINE	0.522	0.500
DIETHYLOXYLATE	1.377	1.370
DISOPYRAMIDE BASE	0.000	0.000
DIMETHYL FORMAMIDE	15.945	16.070
DIMETHYL OXAMIDE	0.000	0.000
DIPC HYDROCHLORIDE	0.809	0.820
DTHQ	0.000	0.000
ETHANOLAMIDE	0.000	0.000
ETHYL ACETATE	76.507	70.500
ETHYLENE DICHLORIDE	0.000	0.000
FUMING NITRIC ACID	5.283	5.820
GLYCERIN	3.333	0.000
HEXANE	50.061	37.080
HYDROCHLORIC ACID	7.015	6.900
HYDROGEN BROMIDE AQUEOUS 48%	4.904	4.530
HYFLO SUPERCEL	1.235	0.350
HYPOXANTHINE	0.882	0.880
IPA HCL SOLUTION	1.061	1.050
ISOPROPANOL (IPA)	12.857	12.860
ISOPROPYL ETHER	17.500	25.800
L(-) CAMPHOR SULPHONIC ACID	0.543	0.000
LIQUOR AMMONIA	10.967	10.150
METHYLENE CHLORIDE	82.913	74.930
METHANOL	155.130	133.42
METHYL BROMIDE	0.909	0.930
METHYL ETHYL KETONE (MEK)	13.545	13.800
MONO METHYLAMINE SOLUTION	1.887	1.880
MONOETHANOLAMINE	0.630	0.630
MYCOPHENOLIC ACID	1.042	0.000
N-(2-HYDROXYETHYL) NICOTINAMIDE	0.000	0.000
NICOTINIC ACID	0.943	0.940
NITRIC ACID LR	0.535	0.437
NITRILE AMIDE	0.000	0.000
NITROGEN GAS CYLINDER	0.048	0.000
ORTHO PHOSPHORIC ACID	0.000	0.000
P NITRO CHLORO BENZENE	1.172	1.170

P-ANISIDINE	0.800	0.000
PARA FORMALDEHYDE 96%	0.316	0.000
PARA NITRO ANISOLE	0.000	0.000
PARA TOLUENE SULPHONYL CHLORIDE	1.182	1.130
PHOSPHOROUS OXYCHLORIDE	1.382	1.410
PHOSPHOROUS PENTACHLORIDE	4.909	0.000
PHOSPHOROUS PENTSULPHIDE	0.882	0.880
PYRIDINE	3.540	3.540
PYRIDINE-3-CARBOXYLIC ACID METHYL ESTER	0.000	0.000
RANET NICKEL-F-KALLIN	0.100	0.000
SERTALINE MENDATE	1.515	0.000
SODIUM BICARBONATE	4.093	5.420
SODIUM CARBONATE	10.003	7.330
SODIUM CARBONATE ANHYDROUS	0.312	0.300
SODIUM CHLORIDE	1.276	0.000
SODIUM DI THIONATE	0.313	0.000
SODIUM HYPOCHLORITE	3.000	2.550
SODIUM SULPHATE ANHYDROUS	2.173	1.790
SODIUM THIOSULPHATE	0.075	0.080
SULPHURIC ACID	6.398	5.080
TETRA BUTYL AMMONIUM BROMIDE (TBAB)	0.131	0.000
THIONYL CHLORIDE	3.486	2.220
TOLUENE	56.222	37.42
TOTROXYQUIN	0.000	0.000
TRIETHYLAMINE	1.064	1.000
TRIMETHYL ORTHO FORMATE	1.607	1.640
XANTHALENE-9-CARBOXYLIC ACID	0.818	0.830
SODIUM BORO HYDRID	0.124	0.130
2-METHYL BENZOYL CHLORIDE	0.456	0.400
AMINO AMIDE	0.958	0.000
HYDROGEN GAS COMMERCIAL CYLINDER	0.067	0.000

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Furnace Oil	364.4	0.000	MT/A
Pipeline Natural Gas	277.0	193.4	MT/A
Diesel	175.2	3.04	MT/A

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
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	Quantity	Concentration	%variation	Standard	Reason
pH	-----	7.6	0	5.5 to 9.0	-----
BOD	6.01	50.9	0	< 100 mg/L	-----
COD	20.57	174.3	0	< 250 mg/L	-----
Suspended Solids	6.28	53.2	0	< 100 mg/L	-----
TDS	86.82	735.8	0	< 2100 mg/L	-----
Oil & Grease	0.01	0.1	0	< 10 mg/L	-----
Free Ammonia	0.00	0.0	0	< 5 mg/L	-----
Chloride	20.18	171	0	< 600 mg/L	-----
Sulfide	0.00	0.00	0	< 2 mg/L	-----
Copper	0.04	0.3	0	< 3 mg/L	-----

[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		
SPM / TPM (Boiler S-1)	5.00	10.9	0	< 150 mg/Nm3	-----
SO2 (Boiler S-1)	0.00	0.00	0	< 89 Kg/D	-----
SPM / TPM (D.G.Set S-2)	1.21	49.1	0	< 150 mg/Nm3	-----
SO2 (D.G.Set S-2)	0.008	0.1	0	< 12 Kg/D	-----
(HCL Scrubber MF-1, S-3)	-----	3.10	0	< 35 mg/Nm3	-----
H2S Scrubber MF-2, S-4)	-----	0.60	0	< 10 ppm	-----
HCL Scrubber MF-3, S-5)	-----	2.60	0	< 35 mg/Nm3	-----
HCL Scrubber MF-3, S-6)	-----	3.80	0	< 35 mg/NM3	-----
HCL Scrubber MF-1, S-7)	-----	2.20	0	< 35 mg/NM3	-----

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
3.3 Sludge and filters contaminated with oil	0.970	0.680	MT/A
5.1 Used /spent oil	0.845	0.239	MT/A
20.3 Distillation residue	3.432	0.513	MT/A
28.1 Residues and wastes*	147.909	164.922	MT/A
28.2 Spent catalyst / spent carbo	15.792	22.462	MT/A
28.2 Off specification product	2.276	0.964	MT/A
28.3 Date-expired, discarded and off-specification drug	0.663	0.595	MT/A
28.5 Spent organic solvent	371.522	283.775	MT/A
33.3 Discarded containers / barrels / liner	6.470	6.594	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
3.3 Sludge and filters contaminated with oil	25.375	50.960	MT/A

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Paper, Wood, Plastic and Metal	9.6	8.4	MT/A
Garbage like paper, Corrugated Boxes, Plastic, Fibre Drums, Brooms, Wipers, Floor cleaning mops, Tea Cups, Disposable aprons, Head caps, Shoe covers etc.	20.2	17.3	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Not Applicable	0	0	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
3.3 Sludge and filters contaminated with oil	288	243	Nos./Y

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
3.3 Sludge and filters contaminated with oil	0.680	MT/A	Incineration through CHWTSDF
5.1 Used /spent oil	0.239	MT/A	Incineration through CHWTSDF
20.3 Distillation residue	0.513	MT/A	Incineration through CHWTSDF
28.1 Residues and wastes*	164.922	MT/A	Incineration through CHWTSDF
28.2 Spent catalyst / spent carbo	22.462	MT/A	Incineration through CHWTSDF
28.2 Off specification product	0.964	MT/A	Reuse or Sale to authorized party
28.3 Date-expired, discarded and off-specification drug	0.595	MT/A	Reuse or Sale to MPCB authorized Party or Inceneration through CHWTSDFthrough CHWTSDF
28.5 Spent organic solvent	283.775	MT/A	Land Filling at CHWTSDF
33.3 Discarded containers / barrels / liner	6.594	MT/A	Incineration through CHWTSDF
34.2 Toxic metal-containing residue from water purificatio	0.000	MT/A	Incineration through CHWTSDF

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Paper, Wood, Plastic & Metal	8.4	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.	17.3	MT/A	Sale to authorized party
Discarded, Detoxicated containers, Barrels, Liners	243	Nos./Y	Reuse or Sale to authorized party

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

[A] Investment made during the period of Environmental Statement

<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
Installed Rain Water Harvesting System	Conserve natural resource	10
Initiated water saving and reduced water intake from MIDC	Conserve natural resource	3
Installed air grids at Equalization tank in replacement to high speed agitator	Energy conservation	0.5
Replaced damaged air grid in Aeration Tank launder	Optimize oxygen requirement to activated culture	1
Constructed shed for ETP Chemical Storage	Protech chemicals from heat & rain water	2

[B] Investment Proposed for next Year

<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
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
Repair Sludge drying bed by providing RCC walls	To avoid seepage through wall	7
Replace old age storm water drain with RCC make	Repair old age damaged storm drain	16
Painting of ETP structures	To improve life of the ETP structures	4
Replace sludge drying bed media	Improve filtration rate and retain sludge on bed	2

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

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