



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-0000026560

Submitted Date

19-09-2020

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.0000067989/3rd CAC -
1906000884

Consent Issue Date

19.06.2019

Consent Valid Upto

30.04.2021

Product Information

Product Name

Product Name	Consent Quantity	Actual Quantity	UOM
Anti-Psychotic - Haloperidol, Haloperidol deconate, Risperidone, etc.	9.3	4.313	MT/A
Anti-Arrhythmic class I - Disopyramide Phosphate etc.	0.3	0.155	MT/A
Anti Diarrhoeal - Diphenoxylate HCL etc.	7.2	2.738	MT/A
Immunosuppresant - Azathioprine, Mycophenolate Mofetil, Mycophenolate Sodium etc.	16.8	10.708	MT/A
Collinergic Blockers - Propanthelene bromide etc.	1.5	0.826	MT/A
Anthelmentic - Quinfamide etc.	8.4	4.612	MT/A
Anti Thrombotic / Anti Platelet - Ticlopidine HCL etc.	1.80	0	MT/A
Anti Convusant - Lamotrigine etc.	7.2	0.212	MT/A
Anti Ulcerant - Pantoprazol Sodium, Pantoprazol Sequehydrate, etc.	9.6	4.251	MT/A
Anti Depressant - Sertraline HCL, etc.	6.0	0	MT/A
Anti Anginal - Nicorandil, etc.	1.8	0.665	MT/A

Anti Hypertensive - Tolvaptan, Benidipine HCL, Solifenacin, etc.	0.36	0.008	MT/A
Anti Hyperparathyroid - Cinacalcet HCL, etc.	0.3	0	MT/A
TOTAL PRODUCTION QUANTITY FOR PRODUCT MIX	70.56	28.487	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	76	24.5
Domestic	70	37.2
All others	60	20
Total	350	147.1

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	120	70	CMD
Sewage	60	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
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
Anthelmentic - 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	55.4	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	3.37	Ton/Ton
Anti Hyperparathyroid - Cinacalcet HCL, 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	0.000	1.000	
10% PALADIUM ON CHARCOAL	0.100	0.100	

2 AMINO PYRIDINE	0.750	0.746
2-(2,3-DICHLOROPHENYL)-(GUANIDINOIMINO) ACETONITRILE (SCHIFF BASE)	1.140	1.143
2-CHLOROMETHYL-3,4-DIMETHOXY PYRI	0.510	0.513
2-FUROIC ACID	0.420	0.424
4 BROMO 2-2 DIPHENYL BUTYRO NITRITE	1.120	0.000
2-METHYL BENZOYL CHLORIDE	0.400	0.400
4-(2-4-DIFLURO BENZOYL OXIME)-PIPRODINE	1.450	1.429
4-(2-HYDROXYETHYL) MORPHOLINE	0.000	0.488
5-DIFLURO METHOXY-2-MERCAPTO-1H-BENZENE	0.500	0.503
AAGBL ALPHA ACETYL GAMMA BUTYROLACTONE	1.050	1.045
ACETONE	113.930	101.306
ACETONITRILE	6.670	5.182
ACTIVATED CARBON	1.830	1.968
AMMONIUM SULFATE	1.280	1.282
BENZYL TRIETHYL AMMONIUM CHLORIDE (BTEAC)	0.010	0.006
CAUSTIC POTASH FLAKES	3.350	3.286
CAUSTIC SODA FLAKES	0.910	1.245
CAUSTIC SODA LYE	4.860	5.754
CAUSTIC SODA PALLETS	0.000	0.298
CFB	0.820	0.818
CFB Ketal	0.000	0.400
CHLOROFORM	11.630	16.822
CPP	0.330	0.333
DECONOIC ACID	1.020	1.047
DENATURED ABSOLUTE ALCOHOL (5% ACETONE)	24.850	18.916
DICHLOROACETYL CHLORIDE	0.810	0.830
DIETHANOLAMINE	0.500	0.500
DIETHYLOXYLATE	1.370	1.371
DISOPYRAMIDE BASE	0.000	0.940
DIMETHYL FORMAMIDE	16.070	15.422
DIPC HYDROCHLORIDE	0.820	0.799
ETHYL ACETATE	70.500	76.743
FUMING NITRIC ACID	5.820	5.283
HEXANE	37.080	48.150
HYDROCHLORIC ACID	6.900	8.206
HYDROGEN BROMIDE AQUEOUS 48%	4.530	6.908
HYFLO SUPERCEL	0.350	0.076
HYPOXANTHINE	0.880	0.885
IPA HCL SOLUTION	1.050	1.053
ISOPROPANOL (IPA)	12.860	19.734
ISOPROPYL ETHER	25.800	12.983

L(-) CAMPHOR SULPHONIC ACID	0.000	0.525
LIQUOR AMMONIA	10.150	11.075
METHYLENE CHLORIDE	74.930	214.344
METHANOL	133.42	118.598
METHYL BROMIDE	0.930	0.898
METHYL ETHYL KETONE (MEK)	13.800	10.767
MONO METHYLAMINE SOLUTION	1.880	1.685
MONOETHANOLAMINE	0.630	0.630
MYCOPHENOLIC ACID	0.000	1.042
NICOTINIC ACID	0.940	0.943
NITRIC ACID LR	0.437	0.537
ORTHO PHOSPHORIC ACID	0.000	0.329
P NITRO CHLORO BENZENE	1.170	1.181
PARA FORMALDEHYDE 96%	0.000	0.130
PARA TOLUENE SULPHONYL CHLORIDE	1.130	1.131
PHOSPHOROUS OXYCHLORIDE	1.410	1.403
PHOSPHOROUS PENTSULPHIDE	0.880	0.885
PYRIDINE	3.540	3.462
SERTALINE MENDATE	0.000	1.504
SODIUM BICARBONATE	5.420	8.700
SODIUM CARBONATE	7.330	4.776
SODIUM CARBONATE ANHYDROUS	0.300	0.300
SODIUM DI THIONATE	0.000	0.313
SODIUM HYPOCHLORITE	2.550	3.708
SODIUM SULPHATE ANHYDROUS	1.790	1.918
SODIUM THIOSULPHATE	0.080	0.077
SULPHURIC ACID	5.080	5.019
TETRA BUTYL AMMONIUM BROMIDE (TBAB)	0.000	0.002
THIONYL CHLORIDE	2.220	3.287
TOLUENE	37.42	34.693
TRIETHYLAMINE	1.000	0.735
TRIMETHYL ORTHO FORMATE	1.640	1.589
XANTHALENE-9-CARBOXYLIC ACID	0.830	0.808
SODIUM BORO HYDRID	0.130	0.142
BROMO DIPHENYL BUTYRONITRILE	0.000	0.978

4) Fuel Consumption

<i>Fuel Name</i>	<i>Consent quantity</i>	<i>Actual Quantity</i>	<i>UOM</i>
Furnace Oil	919.8	0.430	MT/A
Pipeline Natural Gas	277.0	190.8	MT/A
Diesel	728.8	1.26	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	Standard	Reason
	Quantity	Concentration	%variation		
pH	-----	7.0	0	5.5 to 9.0	-----
BOD	5.62	47.6	0	< 100 mg/L	-----
COD	20.06	170.0	0	< 250 mg/L	-----
Suspended Solids	4.78	40.5	0	< 100 mg/L	-----
TDS	45.09	382.1	0	< 2100 mg/L	-----
Oil & Grease	0.02	0.2	0	< 10 mg/L	-----
Free Ammonia	0.01	0.1	0	< 5 mg/L	-----
Chloride	8.67	73.5	0	< 600 mg/L	-----
Sulfide	0.00	0.00	0	< 2 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)	2.28	10.68	0	< 150 mg/Nm3	-----
SO2 (Boiler S-1)	3.54	-----	0	< 226 Kg/D	-----
SPM / TPM (D.G.Set S-2)	0.44	47.31	0	< 150 mg/Nm3	-----
SO2 (D.G.Set S-2)	0.27	26.41	0	< 49 Kg/D	-----
(HCL Scrubber MF-1, S-3)	-----	4.40	0	< 35 mg/Nm3	-----
H2S Scrubber MF-2, S-4)	-----	2.30	0	< 10 ppm	-----
HCL Scrubber MF-3, S-5)	-----	5.90	0	< 35 mg/Nm3	-----
HCL Scrubber MF-3, S-6)	-----	5.30	0	< 35 mg/NM3	-----
HCL Scrubber MF-1, S-7)	-----	4.50	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	0.680	0.000	MT/A
5.1 Used or spent oil	0.239	0.666	MT/A
20.3 Distillation residues	0.513	0.000	MT/A
28.1 Process Residue and wastes	164.922	22.480	MT/A
28.2 Spent catalyst	0.000	0.000	MT/A
28.3 Spent carbon	22.462	15.805	MT/A
28.4 Off specification products	0.964	0.829	MT/A
28.5 Date-expired products	0.595	0.458	MT/A
28.6 Spent solvents	283.775	364.311	MT/A

33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	6.594	27.560	MT/A
35.2 Spent ion exchange resin containing toxic metals	0.000	0.000	MT/A
35.4 Oil and grease skimming	1.341	0.662	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	50.960	35.230	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	8.4	9.10	MT/A
Garbage like paper, Corrugated Boxes, Plastic, Fibre Drums, Brooms, Wipers, Floor cleaning mops, Tea Cups, Disposable aprons, Head caps, Shoe covers etc.	17.3	20.30	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
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	243	23.80	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

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	0.666	MT/A	Incineration through CHWTSDF
28.1 Process Residue and wastes	22.480	MT/A	Sale to authorized recycler / CHWTSDF
28.3 Spent carbon	15.805	MT/A	Incineration through CHWTSDF
28.4 Off specification products	0.829	MT/A	Incineration through CHWTSDF
28.5 Date-expired products	0.458	MT/A	Incineration through CHWTSDF
28.6 Spent solvents	364.311	MT/A	Sale to authorized re cyler / re processor / CHWTSDF
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	27.560	MT/A	Reuse / Sale to authorized party / CHWTSDF
35.4 Oil and grease skimming	0.662	MT/A	Incineration through CHWTSDF
35.3 Chemical sludge from waste water treatment	35.230	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	9.1	MT/A	Sale to authorized party

Garbage like Paper, Corrugated Boxes, Plastic, Fibre Drums, Brooms, Wipers, 20.3
Floor cleaning mops, Tea Cups, Disposable aprons, Head Caps, & Shoe
covers etc.

MT/A Sale to authorized party

Discarded, Detoxicated containers, Barrels, Liners

23.08

MT/A 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)
2019-20	9.27	-----	-----	199445	-----	-----

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
Repair Sludge drying bed by providing RCC walls	To avoid seepage through wall	3.5
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	1

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Replace all membrane diffusers for efficient aeration	To improve effluent treatment process & energy saving	6
Repair Sludge Drying Bed by providing RCC walls	To avoid seepage through damaged concrete plaster of wall.	3.5
Replace Continuous Effluent Monitoring System	To avoid uninterrupted data collection & transmission	23
Painting of ETP structures	To improve life of the ETP structures	2
Replace sludge drying bed media	Improve filtration rate and retain sludge on bed	1

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