



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-0000026232

Submitted Date

16-09-2020

Company Information

Company Name

Embio Limited

Application UAN number

NA

Address

MIDC

Plot no

E-21, 22/1/2/3

Taluka

Mahad

Village

Khaire

Capital Investment (In lakhs)

146.72

Scale

Crores

City

Mahad

Pincode

402309

Person Name

R.K.Gite

Designation

Chief Manager-Operations

Telephone Number

02145-234750/51/52

Fax Number

02145-232375

Email

rkgite@embio.co.in

Region

SRO-Mahad

Industry Category

Red

Industry Type

R58 Pharmaceuticals

Last Environmental statement submitted online

yes

Consent Number

Formate1.0/BO/CAC-Cell/UAN No. 30639 & 22624/4th & 5th CAC/1711000507

Consent Issue Date

14/11/2017

Consent Valid Upto

30/04/2022

Product Information

Product Name	Consent Quantity	Actual Quantity	UOM
Ephedrine Hydrochloride salt	315.00	79.550	MT/A
Hydroxyamphetamine hydrobromide	0.01	0.00	MT/A
Clobenzorex hydrochloride	1.50	0.00	MT/A
Phentermine hydrochloride	0.50	0.00	MT/A
Pseudoephedrine hydrochloride	280.00	214.776	MT/A
nor ephedrine	100.00	42.536	MT/A
n methyl ephedrine	30.00	24.537	MT/A
DMIC	15.00	0.00	MT/A
Selegiline Hydrochloride	1.0	0.0	MT/A
Oxazolidinones	0.50	0.0	MT/A
Octopamine	30.00	0.0	MT/A
Dronabinol	0.03	0.00	MT/A
Ractopamine HCL	12.00	0.0	MT/A

Zilpaterol HCL	6.0	0.00	MT/A
Methyl Pentylamine	6.00	0.00	MT/A
Methadone HCL	0.50	0.00	MT/A
Zilpa Intermediate	0.25	0.00	MT/A
Oxyfedrine HCL	0.02	0.0	MT/A

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
Bio- slurry or Bio Sludge	14600	14487.8	MT/A
Sodium acetate mixture	720	248.061	MT/A

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	565	410
Domestic	500	390
All others	68	36
Total	31	22
	1164	858

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Effluent	582.5	354	CMD
Effluent	582.5	354	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
All products	419	410	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
Acetone	0.44	0.62	Ton/Ton
Activated carbon	0.020	0.021	Ton/Ton
Caustic soda flakes	0.010	0.009	Ton/Ton
HCl	1.35	1.27	Ton/Ton
Molasses	44.55	23.228	Ton/Ton
MMA	0.86	0.85	Ton/Ton
Methanol	0.24	0.30	Ton/Ton
Urea	0.110	0.082	Ton/Ton
Hydrogen	0.34	0.247	Ton/Ton
Benzaldehyde	2.00	1.481	Ton/Ton
Platinum	0.005	0.041	Ton/Ton
Toluene	1.77	1.279	Ton/Ton

Caustic soda lye	0.670	0.642	Ton/Ton
Ephedrine HCl	1.2054	1.170	Ton/Ton
Acetone	0.581	0.483	Ton/Ton
Carbon	0.005	0.0030	Ton/Ton
Acetic anhydride	1.611	1.556	Ton/Ton
Toluene	0.541	0.410	Ton/Ton
HCl CP grade	0.740	0.678	Ton/Ton
Sulphuric acid	0.739	0.7117	Ton/Ton
Caustic soda lye	4.580	4.224	Ton/Ton
dl ephedrine base	1.46	1.433	Ton/Ton
HCl	0.67	0.601	Ton/Ton
Acetone	1.79	1.680	Ton/Ton
Caustic soda lye	1.25	2.011	Ton/Ton
formic acid	0.79	0.776	Ton/Ton
formaldehyde	1.14	1.123	Ton/Ton
HCL Com	1.67	1.056	Ton/Ton
Toluene	3.18	2.239	Ton/Ton
Methanol	4.87	4.011	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Biogas	365000	392655	
Imported coal	10074	10265	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	NA	7.10	NA	8.5	NA
BOD	10.62	30	NA	100	NA
COD	31.86	90	NA	250	NA
Suspended solids	9.204	26	NA	100	NA
Oil and grease	BDL	BDL	NA	10	NA
Total dissolved solids	119.652	338	NA	2100	NA
sulphate	NA	NA	NA	1000	NA
TAN	NA	NA	NA	50	NA
Chloride	NA	NA	NA	600	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		

Total particulate matter	NA	62	25	150	NA
SO2	95.73	3.11	20	276	NA
NOx	NA	NA	20	NS	NA

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	0.8	0.630	MT/A
28.1 Process Residue and wastes	1.198	2.381	MT/A
28.3 Spent carbon	18.670	22.910	MT/A
28.4 Off specification products	1.720	1.160	MT/A
35.3 Chemical sludge from waste water treatment	790.680	673.610	MT/A
35.2 Spent ion exchange resin containing toxic metals	0.365	0.348	MT/A
35.2 Spent ion exchange resin containing toxic metals	0.247	0.365	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	790.680	673.610	MT/A

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Wood waste	1.0	1.0	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	NA	NA	Nos./Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	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
35.3 Chemical sludge from waste water treatment	673.610	MT/A	95% powder and 5 % moisture
28.3 Spent carbon	22.910	MT/A	Concentrated with impurities and solvents

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
MEE powder after treatment of wastewater	673.610	MT/A	95% powder and 5 % moisture

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)
Waste to energy	306	NA	NA	1109	NA	NA

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)
650	In house treatment	550

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	NA

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

Particulars

During world environment day 35 nos. Tree plantation done in company premises & along the side of compound wall of factory , planted Sag, vad etc.

Name & Designation

R.K.Gite Chief Manager - Operations