



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2017

Company Information

Company Name

Astec LifeSciences ltd

Application UAN number

NA

Address

Plot no. K-2/1/1, Additional MIDC, Mahad
Dist. Raigad

Plot no

K-2/1/1

Taluka

Mahad

Village

Kalinj

Capital Investment (In lakhs)

45.45

Scale

MSI

City

Mahad MIDC

Pincode

402309

Person Name

Arijit Mukharjee

Designation

Chief Executive officer

Telephone Number

8425856107

Fax Number

0

Email

vivek.thorat@godrejastec.com

Region

SRO-Mahad

Industry Category

Red

Industry Type

R37 Pesticides (technical) (excluding formulation)

Last Environmental statement submitted online

yes

Consent Number

B.O/MPCB/AST/CO1603000289/O/CC-8360

Consent Issue Date

24/06/2016

Consent Valid Upto

31/07/2019

Product Information

Product Name	Consent Quantity	Actual Quantity	UOM
2,4-D DMA salt	5808	624.96	MT/A
4 Chlorostyrene	300	0	MT/A
Dichlorophenyl oxirane	300	0	MT/A
Imazethapyr	420	104.20	MT/A
Imazepyr	600	0	MT/A
3- Aminotriazole	300	0	MT/A
Siduron	402	365.97	MT/A
2-Ethyl 2 methyl butanoic acid	600	133.75	MT/A
Dextrinol	60	0	MT/A

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
DMA solution 20%	17.52	0	MT/A
Inorganic salts of sulphates, phosphates & chlorides	1200	1123.59	MT/A
Mg salts (sulphate/ chloride/ carbon)	1200	1067.26	MT/A

Aliphatic hydrocarbon	240	181.1	MT/A
Hydrochloric acid	1200	0	MT/A

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	53	7
Cooling	234	81
Domestic	20	10
All others	00	00
Total	307	98

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade effluent	137	ZLD	CMD
Sewage water	15	8	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
2,4-D DMA salt	0	0	
Imazethapyr	0	0	
Siduron	0	0	
2-Ethyl 2 methyl butanoic acid	0	0.1	

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
Magnesium metal	0	0.68	Ton/Ton
Methyl chloride	0	0.87	Ton/Ton
HCl	0	0.91	Ton/Ton
Carbon Di Oxide	0	0.65	Ton/Ton
H2SO4 (98%)	0	0.84	Ton/Ton
Caustic lye	0	1.14	Ton/Ton
Diethyl ketone	0	1.18	Ton/Ton
Tetrahydrofuran	0	0.92	Ton/Ton
Toluene	0	0.18	Ton/Ton
Sodium hydroxide	0	0.26	Ton/Ton
Phenyl isocyanate	0	0.05	Ton/Ton
Methyl hexyl Amine	0	0.05	Ton/Ton
Solvex	0	0.03	Ton/Ton
2-ADBA amide	0	0.32	Ton/Ton
Sodium ethoxide	0	1.06	Ton/Ton
EPDA-Ester	0	0.57	Ton/Ton
Sodium hydroxide	0	0.06	Ton/Ton

Methyl t-butyl ether	0.83	0.05	Ton/Ton
DiMethyl amine	0.04	0.19	Ton/Ton
2,4-D Acid	0.02	0.9	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Coal	22000	4400	
HSD	1000	700	

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 Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Zero liquid discharge	0	0	0	0	0

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
SO2	7.7	NA	0	52	Under norms
TPM	NA	40.8	0	50	Under norms
Acid mist	18.4	NA	0	35	Under norms

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used /spent oil	0	0.45	KL/A
28.1 Residues and wastes*	51.31	246.23	MT/A
33.3 Discarded containers / barrels / liner	1.04	5.31	MT/A

2) From Pollution Control Facilities

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

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
HDPE drums	0	14.25	Ton/Y
MS drums	0	11.28	Ton/Y
Wooden	0	0.06	Ton/Y
Paper	0	6.2	Ton/Y
Glass	0	0.1	Ton/Y
Metal	0	9.3	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
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3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	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 /spent oil	0.45	KL/A	Send to authorized recycler
28.1 Residues and wastes*	130.43	MT/A	Incineration
28.1 Residues and wastes*	141.39	MT/A	Landfill
33.3 Discarded containers / barrels / liner	5.31	MT/A	Incineration

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Nil	0	Kg/Day	0

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)
Astec LifeSciences Ltd. is Responsible Care organization, certified by Indian Chemical Council which has core responsibilities in pollution prevention, process safety & resources conservation for good	Overall water consumption maintained in year 98 m ³ /day which is 70% less than consented quantity	Overall fuel consumption maintained in year (COAL - 4400 Kg/Day) which is 50% less than consented quantity & (HSD - 700 Kg/Day) which is 30% less than consented quantity	Overall RM consumption maintained in year 0.1 to 0.9 percent per unit production which is already optimized	0	0	0

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)
Chemical transfer lines replaced with compatible material	To avoid soil pollution	1.0
Continuous online emission monitoring system	To monitor the abnormalities in the parameters	1.5
Environment monitoring	To monitor all the emissions & parameters	1.0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Reduction in the power consumption	Proposing for solar energy	5

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

Particulars

Celebration of World Environment Day for to spread awareness about environment protection. Developing more green belt area in surrounding. Preventive maintenance of scrubber system to control the fugitive emissions. Efficient operation and maintenance of coal fired boiler. Segregation of hazardous & non hazardous waste. Streamlined disposal of hazardous, biomedical & electronic waste.

Name & Designation

Vivek Thorat, General Manager - Operations