Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

# FORM V

**(See Rule 14)**

**Environmental Audit Report for the financial Year ending the 31st March 2023**

| ***Unique Application Number*** | ***Submitted Date*** |
|---|---|
| MPCB-ENVIRONMENT_STATEMENT-0000061948 | 30-09-2023 |

## PART A

### *Company Information*

| ***Company Name*** | ***Application UAN number*** | |
|---|---|---|
| Solara Active Pharma Sciences Ltd. | MPCB-CONSENT-0000109832 | |
| ***Address*** | | |
| Plot N 39 / N 39 1, Additional Ambernath M.I.D.C, Anand Nagar, Ambernath (East) 421506 | | |
| ***Plot no*** | ***Taluka*** | ***Village*** |
| Plot N 39 / N 39-1 | Ambernath | Additional Ambernath MIDC, Anand Nagar, Ambernath (East) |
| ***Capital Investment (In lakhs)*** | ***Scale*** | ***City*** |
| 11117.07 | L.S.I | Thane |
| ***Pincode*** | ***Person Name*** | ***Designation*** |
| 421506 | Santosh Badhe | Site Head |
| ***Telephone Number*** | ***Fax Number*** | ***Email*** |
| 02517120404 | 02517120466 | mangesh.h@solara.co.in |
| ***Region*** | ***Industry Category*** | ***Industry Type*** |
| SRO-Kalyan II | Red | R58 Pharmaceuticals |
| ***Last Environmental statement submitted online*** | ***Consent Number*** | ***Consent Issue Date*** |
| yes | MPCB-CONSENT-0000109832/CR 2106000590 | 2021-07-14 |
| ***Consent Valid Upto*** | ***Establishment Year*** | ***Date of last environment statement submitted*** |
| 2026-04-30 | 2009 | Sep 30 2022 12:00:00:000AM |
| ***Industry Category Primary (STC Code) & Secondary (STC Code)*** | | |

### *Product Information*

| ***Product Name*** | ***Consent Quantity*** | ***Actual Quantity*** | ***UOM*** |
|---|---|---|---|
| Pentoxifylline | 270 | 197.35 | MT/A |
| Fenofibrate | 70 | 0 | MT/A |
| Ammonium Lactate | 50 | 0 | MT/A |
| Cilostazol | 15 | 0 | MT/A |
| Modafinil | 6 | 0 | MT/A |
| Cetirizine Dihydrochloride | 30 | 0 | MT/A |

| | | | |
|---|---|---|---|
| Prazoles (Omeprazole Magnesium, Esomeprazole Magnesium, Pantoprazole Sodium Sesquihydrate, Rabeprazole sodium, Lansoprazole Sodium Sesquihydrate) | 60 | 0 | MT/A |
| Dextromethorphan Hydrobromide / Fexofenadine Hydrochloride / Tramadol Hydrochloride | 50 | 0 | MT/A |
| Loratadine / Desloratadine | 30 | 0 | MT/A |
| Tioconazole | 3 | 0 | MT/A |
| Montelukast Sodium | 3 | 0 | MT/A |
| Statin / Rosuvastatin Calcium | 13 | 0 | MT/A |
| API Research and Development (Synthesis R&D, Analytical R&D, Method Validation Lab, Kilo Lab and Pilot plant) | 0 | 0 | MT/A |

***By-product Information***

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

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

***1) Water Consumption in m3/day***

| ***Water Consumption for*** | ***Consent Quantity in m3/day*** | ***Actual Quantity in m3/day*** |
|---|---|---|
| ***Process*** | 199 | 36.25 |
| ***Cooling*** | 286 | 52.10 |
| ***Domestic*** | 17 | 3.10 |
| ***All others*** | 10 | 1.82 |
| ***Total*** | 512 | 93.27 |

***2) Effluent Generation in CMD / MLD***

| ***Particulars*** | ***Consent Quantity*** | ***Actual Quantity*** | ***UOM*** |
|---|---|---|---|
| Trade Effluent | 153 | 52 | CMD |
| Domestic Effluent | 12 | 7 | 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*** |
|---|---|---|---|
| Pharmaceuticals(excluding formulation) | 2.86 | 2.78 | Qnt/Y |

***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*** |
|---|---|---|---|
| Theobromine | 2.952 | 4.046 | Qnt/Y |
| 6-Chlorohexane-2-one | 2.321 | 3.184 | Qnt/Y |
| Potassium Carbonate | 1.4532 | 1.992 | Qnt/Y |
| N-Methylpyrrolidone | 0.753 | 1.032 | Qnt/Y |
| Dichloromethane | 0.4323 | 0.593 | Qnt/Y |

***4) Fuel Consumption***

| ***Fuel Name*** | ***Consent quantity*** | ***Actual Quantity*** | ***UOM*** |
|---|---|---|---|
| PNG | 588 | 85 | SCM/Hr |
| HSD | 343 | 3.03 | Ltr/Hr |

## Part-C

***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*** | | |
|---|---|---|---|---|---|
| | ***Quantity*** | ***Concentration*** | ***%variation*** | ***Standard*** | ***Reason*** |
| Total Dissolved solids(TDS) | 0 | 124 | 0 | 2100 | NA |
| Total Suspended Solids(TSS) | 0 | 17.6 | 0 | 100 | NA |
| Chemical Oxygen Demand (COD) | 0 | 22.5 | 0 | 250 | NA |
| Biological Oxygen Demand (BOD) days 27 | 0 | 12.6 | 0 | 100 | NA |
| Chlorides | 0 | 22.9 | 0 | 600 | NA |
| Sulphates | 0 | 18.5 | 0 | 1000 | NA |
| Total Ammonical Nitrogen (TAN) | 0 | 0.6 | 0 | 50 | NA |
| pH | 0 | 7.4 | 0 | 6.0 to 8.5 | NA |
| Oil & Grease | 0 | 0.0 | 0 | 10 | 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*** | | |
|---|---|---|---|---|---|
| | ***Quantity*** | ***Concentration*** | ***%variation*** | ***Standard*** | ***Reason*** |
| Particulate Matter from Boiler Vent stacks | 0.412 | 12 | 0 | 150mg/Nm3 | NA |
| SO2 from Boiler Vent stacks | 0.0 | 0.0 | 0 | 1155 Kg/Day | NA |
| Particulate Matter from D.G Set -1 | 0.028 | 66 | 0 | 150mg/Nm3 | NA |
| SO2 from from D.G Set -1 | 1.12 | 64 | 0 | 1155 Kg/Day | NA |
| Particulate Matter from D.G Set -2 | 0.036 | 69 | 0 | 150mg/Nm3 | NA |
| SO2 from from D.G Set -2 | 1.28 | 61 | 0 | 1155 Kg/Day | NA |
| HCl from scrubbers 1 | 0.31 | 11.2 | 0 | 35mg/Nm3 | NA |
| HCl from scrubbers 2 | 0.0030 | 6.8 | 0 | 35mg/Nm3 | NA |
| HCl from scrubbers 3 | 0.29 | 8.7 | 0 | 35mg/Nm3 | NA |
| HCl from scrubbers 4 | 0.003 | 7.9 | 0 | 35mg/Nm3 | NA |
| HCl from scrubbers 5 | 0.013 | 7.32 | 0 | 35mg/Nm3 | NA |
| HCl from scrubbers 6 | 0.003 | 7.18 | 0 | 35mg/Nm3 | NA |
| Particulate Matter from Fire Pump Diesel Engine | 0.0072 | 25 | 0 | 150mg/Nm3 | NA |
| SO2 from Fire Pump Diesel Engine | 0.58 | 24.43 | 0 | 30 Kg/Day NA | NA |

## Part-D

***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 | 0.0 | 0.16 | MT/A |
| 28.3 Spent carbon | 2.59 | 2.99 | MT/A |
| 5.1 Used or spent oil | 2.54 | 1.65 | KL/A |
| 5.2 Wastes or residues containing oil | 0.0 | 0.0 | MT/A |
| 28.1 Process Residue and wastes | 52.92 | 94.09 | MT/A |
| 28.4 Off specification products | 0.02 | 0.0 | MT/A |
| 28.6 Spent organic solvents | 250.921 | 371.94 | MT/A |
| 33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes | 2150 | 2690 | Nos./Y |
| 35.3 Chemical sludge from waste water treatment | 48.53 | 8.32 | MT/A |
| 36.1 Any process or distillation residue | 10.07 | 0.3 | 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 | 0.0 | 0.16 | MT/A |
| 35.3 Chemical sludge from waste water treatment | 48.53 | 8.32 | MT/A |

## Part-E

### *SOLID WASTES*

### *1) From Process*

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---|---|---|---|
| Metal Scrap | 4670 | 4890 | Kg/Annum |
| Plastic Scrap | 950 | 890 | Kg/Annum |
| Paper Scrap | 180 | 210 | Kg/Annum |
| used glass bottle , broken glass ware | 52 | 68 | Kg/Annum |
| Civil debris | 0.0 | 0.0 | MT/A |

### *2) From Pollution Control Facilities*

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---|---|---|---|
| NA | 0 | 0 | Kg/Annum |

### *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 | 0 | 0 | MT/A |
| 28.3 Spent carbon | 0 | 0 | MT/A |
| 5.1 Used or spent oil | 0 | 0 | MT/A |
| 5.2 Wastes or residues containing oil | 0 | 0 | MT/A |
| 28.1 Process Residue and wastes | 0 | 0 | MT/A |
| 28.4 Off specification products | 0 | 0 | Qnt/Y |
| 28.6 Spent organic solvents | 0 | 0 | MT/A |
| 33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes | 0 | 0 | MT/A |

| | | | |
|---|---|---|---|
| 35.3 Chemical sludge from waste water treatment | 0 | 0 | MT/A |
| 36.1 Any process or distillation residue | 0 | 0 | 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*** |
|---|---|---|---|
| 3.3 Sludge and filters contaminated with oil | 0.16 | MT/A | Sun dried chemical/bio sludge from ETP |
| 28.3 Spent carbon | 2.99 | MT/A | Spent Carbon Residues from processes |
| 5.1 Used or spent oil | 1.65 | MT/A | spent oil/waste oil |
| 5.2 Wastes or residues containing oil | 0.0 | MT/A | waste or residues containing oil |
| 28.1 Process Residue and wastes | 94.09 | MT/A | Residues from processes |
| 28.4 Off specification products | 0.0 | MT/A | Date expired / off specification discarded material |
| 28.6 Spent organic solvents | 371.94 | MT/A | Solvents not fit for original intended use such as methanol,MDC,Acetone etc. |
| 33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes | 2690 | Nos./Y | Metal /HDPE Drums |
| 35.3 Chemical sludge from waste water treatment | 8.32 | MT/A | Sludge from WWTP |
| 36.1 Any process or distillation residue | 0.30 | MT/A | Residues from processes /ATFD |

***2) Solid Waste***

| ***Type of Solid Waste Generated*** | ***Qty of Solid Waste*** | ***UOM*** | ***Concentration of Solid Waste*** |
|---|---|---|---|
| Metal Scrap | 4890 | Kg/Annum | Metal |
| Plastic Scrap | 890 | Kg/Annum | HDPE PVC |
| Paper Scrap | 210 | Kg/Annum | Paper |
| used glass bottle , broken glassware | 68 | Kg/Annum | used glass bottle , broken glassware |
| Civil Debris | 0.0 | MT/A | civil debris |

## 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)*** |
|---|---|---|---|---|---|---|
| Fixing of steam flow meter ,online camera and flow meter | 30 | 0 | 0 | 0 | 6 | 0 |
| Replacment of old HDPE tank , R.O membrance xing of online camera and flow meter | 30 | 0 | 0 | 0 | 8 | 0 |

## 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)*** |
|---|---|---|
| foxing of steam flow meter & Replacement of R.O. membrane | For improvement in in waste water outlet | 10 |

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

| ***Detail of measures for Environmental Protection*** | ***Environmental Protection Measures*** | ***Capital Investment (Lacks)*** |
|---|---|---|
| Replacement of ETP, MEE & ATFD old pipe, pump and blower | For improvement in waste water treatment | 5 |

## Part-I

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

***Particulars***

NA

***Name & Designation***

Mangesh Hule, Sr. Manager Environment Health Safety

***UAN No:***

MPCB-ENVIRONMENT_STATEMENT-0000061948

***Submitted On:***

30-09-2023