



IOL CHEMICALS AND PHARMACEUTICALS LIMITED

IOLCP/MoEF/2023/084

Dated 25/09/2023

To,

The Director (s)
Ministry of Environment & Forests,
Regional Office,
Chandigarh.

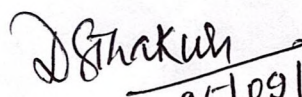
Subject: Regarding submission of Environment Statement (Form-V)

Respected Sir,

Kindly find enclosed herewith Environment Statement (Form-V) in prescribed format for the year 2022-23 for your kind consideration.

Please acknowledge the receipt of the same.

Thanks & Regards


25/09/2023
(Authorized signatory)

IOL Chemicals and Pharmaceuticals Limited

CC: The Environmental Engineer, Regional Office, Sangrur.

ENVIRONMENTAL STATEMENT REPORT

For Year 2022-2023

Submitted to:

**Ministry of Environment and Forest
and
Punjab Pollution Control Board
(PPCB)**

(FORM –V)
(See Rule 14)

Environmental Statement for the financial year ending the 31st March'2023

Part –A

- i) Name and address of the occupier of the industry, operation or process : Sh. Kushal Kumar Rana
Site Director
IOL Chemicals &
Pharmaceuticals ltd
Village Fatehgarh Channa,
Mansa Road ,Dhaura
Barnala 148101
- ii) Industry Category : Red, Large
- iii) Production Capacity : API's & Intermediates – 113.7 MT/day
Specialty Chemicals – 562 MT/day
- iv) Year of Establishment : 29-09-1986
- v) Date of last Environmental Statement : 13th September 2022

Part –B

WATER AND RAW MATERIAL CONSUMPTION

Average Water Consumption per Day

Category	Water Consumption (m3/day)
Process	424
Cooling	32
Domestic	55
Boiler	60

i) Product Manufactured

S.No	Name of Product	Water consumption per MT of products	
		During the FY- 2021-22	During the FY- 2022-23
1	Ethyl Acetate	0.58 KL/MT	0.58 KL/MT
2	Acetic Anhydride	No Production	No Production
3	Ibuprofen	4.28 KL/MT	4.28 KL/MT
4	Monochloro acetic acid	0.25 KL/MT	0.25 KL/MT
5	Acetyl chloride	0.312 KL/MT	0.312 KL/MT
6	IBB	0.750 KL/MT	0.750 KL/MT
7	Metformin Hydrochloride	1.51 KL/MT	1.51 KL/MT
8	Lamotrigine	40.0 KL/MT	40.0 KL/MT
9	Fenofibrate HCL	16.05 KL/MT	16.05 KL/MT
10	Ursodeoxycholic Acid	68.0 KL/MT	68.0 KL/MT
11	Clopidogrel Bisulphate	12.5 KL/MT	12.5 KL/MT
12	Gabapentene	2.0 KL/MT	2.0 KL/MT
13	Losartan	No production	10.07 KL/MT
14	Paracetamol	No production	4.47 KL/MT

ii) Raw Material Consumption

Name of raw Materials	Name of products	Consumption of raw material per unit of output During the FY 2021-22	Consumption of raw material per unit of output During the FY- 2022-23
Ethyl Alcohol.	Ethyl Acetate	685 Ltr/MT	696 Ltr/MT
Acetic Acid.	Ethyl acetate	687 Kg/MT	688 Kg/MT
Acetic Acid	Acetic Anhydride	No Production	No Production
Iso Butyl Benzene	Ibuprofen	790 Kg/MT	780 Kg/MT
Chlorine	MCA	781 Kg/MT	784 Kg/MT
A/anhydride	Acetyl chloride	1357 Kg/MT	1350 Kg/MT

Propylene	IBB	553 Kg/ MT	544 Kg/ MT
Toluene	IBB	841 Kg/ MT	839 Kg/ MT
Dicynamide	Metformin Hydrochloride	534 Kg/MT	546 Kg/MT
Dimethyl Amine Hydrochloride	Metformin Hydrochloride	576 kg/MT	571 kg/MT
2, 3 Dichloro Benzoyl Nitrile	Lamotrigine	1002 Kg/MT	1002 Kg/MT
4-Chloro benzoyl Chloride	Fenofibrate	686 Kg/MT	653 Kg/MT
Anisole	Fenofibrate	424 Kg/MT	404 Kg/MT
Chenodeoxycholic Acid	Ursodeoxycholic Acid	1419 Kg/MT	1419 Kg/MT
Thiopene-2 ethanol	Clopidogrel Bisulphate	534 Kg/MT	529 Kg/MT
2-Chlorophenyl Glycine	Clopidogrel Bisulphate	843 Kg/MT	859 Kg/MT
Maltol	Pantoprazole	763 Kg/MT	763 Kg/MT
5-difluoro Methoxy 2-mercapto benzimidazole	Pantoprazole	653 Kg/MT	649 Kg/MT
Methylcyanoacetate	Gabapantene	1964 Kg/MT	1581 Kg/MT
Cyclohexanone	Gabapantene	1964 Kg/MT	1567 Kg/MT
PNCB	Paracetamol	No Production	1239 Kg/MT
BCFI	Losartan	No Production	649 Kg/MT
OTBN	Losartan	No Production	789 Kg/MT

PART – C
Pollution generated

(Parameters as specified in the consent issued)

Pollutants	Parameters				Percentage of variation from prescribed Standard with reasons	
a) Water	Parameters	Final Outlet of ETP analysis done by PPCB on dated 26.07.2022	Final Outlet of ETP analysis done by PPCB on dated 19.02.2021	Prescribed limits by PPCB	No Variation From Prescribed standards	
	pH	7.35	7.9	6.0-8.5		
	COD(mg/l)	160	80	Less than 250 ppm		
	BOD(mg/l)	27.5	16	Less than 30 ppm		
b) Air	Point of sample Collection	Unit	Results from PPCB on dated 01.02.2022	Results from PPCB on dated 27.09.2022	Prescribed limits by PPCB	No Variation From Prescribed standards
	Port Hole on Stack after APCD of Boiler 80 TPH	mg/NM ³	88 mg/NM ³ at 12% CO ₂	65 mg/NM ³ at 12% CO ₂	Less than 150 mg/ NM ³	
	Port Hole on Stack Thermopack Furnace 2 Lac Kcal (IBU Furnance)	mg/NM ³	109 mg/NM ³ at 12% CO ₂	70 mg/NM ³ at 12% CO ₂	Less than 350 mg/ NM ³	
	Port Hole on Stack Thermopack Furnace 2 Lac Kcal (IBB Furnance)	mg/NM ³	123 mg/NM ³ at 12% CO ₂	-	Less than 350 mg/ NM ³	

PART -D**(HAZARDOUS WASTES)****[As specified under Hazardous waste (Management and Handling) Rules, 2016]**

Hazardous waste and Category		Total Quantity	
Name of Hazardous Waste	Category	During the Previous Financial year (2021-22)	During the current Financial year (2022-23)
Mobile oil	5.1	560 Ltrs.	3975 Ltrs.
Waste or Residues Containing Oil	5.2	0 MT	0.770 MT
Distillation Residue	20.3	1.652 MT	5.124 MT
Process Residue & Waste	28.1	9.953 MT	10.426 MT
Spent Catalyst	28.2	0.414 MT	1.895 MT
Spent Carbon	28.3	1.136 MT	7.049 MT
Off Specification Product	28.4	1.282 MT	5.522 MT
Date Expired Product	28.5	0 MT	0 MT
Spent Solvents	28.6	5.250 MT	8.582 MT
Concentration and Evaporation Residue	37.3	0 MT	1473.810 MT
Cotton Rags	33.2	1.012 MT	2.492 MT
ETP Sludge	35.3	8.020 MT	148.839 MT
Spent Carbon	36.2	0.372 MT	2.445 MT
Empty Barrels	33.1	18.050 MT	23.320 MT

PART – E
(SOLID WASTES)

Name of Solid Waste	Total Quantity in Mt	
	During the previous FY 2021-22	During the current FY 2022-23
Boiler Ash	19569 MT	19589 MT

PART –F

Please specify the characteristics of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

S.No	Material	Physical state	Composition	Disposal practice
1.	Distillation Residue	Solid	Organic Solvent waste	Stored in Hazardous waste room in Environmentally sound manner and sent to approved Facility
2.	Boiler ash	Solid	SiO ₂ + Carbon	Land filling
3.	Mobile oil	Liquid	Used black mobile oil	Stored & sale to authorized recyclers
4.	Process Residue and wastes	Solid	Organic + Inorganic Residue	Stored in Hazardous waste room in Environmentally sound manner and sent to approved Facility
5.	Spent catalyst	Solid	Organic + Inorganic Salt	Stored in Hazardous waste room in Environmentally sound manner and sent to approved Facility
6.	Spent carbon	Solid	SiO ₂ + Carbon	Stored in Hazardous waste room in Environmentally sound manner and sent to approved Facility
7.	Off Specification	Solid	Organic Salt	Stored in Hazardous

	products			waste room in Environmentally sound manner and sent to approved Facility
8.	Date- expired products	Solid	Organic Salt	Stored in Hazardous waste room in Environmentally sound manner and sent to approved Facility
9.	Spent solvents	Liquid	Solvent Mixture	Stored in Hazardous waste room in Environmentally sound manner and sent to approved Facility
10.	Empty barrels/ ccontainers /liners contamin ated with hazardouss chemicals /wastes	Solid	Plastic	Store in Scrap Yard
11.	Contaminated cotton rags or other cleaning materials	Solid	Cotton + Cloth	Stored in Hazardous waste room in Environmentally sound manner and Stored in Hazardous waste room in Environmentally sound manner and sent to approved Facility sent to approved Facility
12.	ETP Sludge	Solid	Sand and fines + Biological Mass	Stored in Hazardous waste room in Environmentally sound manner and sent to approved Facility
13	Spent carbon or filter medium	Solid	SiO ₂ + Carbon	Stored in Hazardous waste room in Environmentally sound manner and sent to approved Facility
14	Concentration and Evaporation Residue	Semi Solid	Organic + Inorganic Salt	Stored in Hazardous waste room in Environmentally sound manner and sent to approved TSDF

PART – G

Impact of pollution control measures on conservation of natural resources and Consequently, on the cost of production:

IOLCP has set up a state of art ZLD Plant for treatment, recycling of wastewater for recovery of good quality permeate water for reuse in Cooling Towers.

ETP Treated effluent is further processed in DAF System. After DAF treated water is further processed in two stage Reverse Osmosis Plant, RO Permeate goes in to cooling tower and RO reject goes in to MVR and MVR condensate goes in to cooling tower, MVR concentrate goes to ATFD, ATFD salt sent to TSDF, IOLCP using latest air pollution control devices to maintain the ambient environmental conditions.

All Stack heights are maintained adequately as per standard and equipped with other required Air Pollution control measures, thus Safeguarding Environment

All Waste (Hazardous and Non-hazardous) is disposed off in line with applicable Rules and Scientific manner with an emphasis on recycling and reuse.

IOLCP main emphasis is on conservation of energy as well as water. IOLCP is awarded with the **National Energy Conservation Award** consecutively for the years 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013 and 2014 and 2016 by **Ministry of Power, Government of India.**

PART – H

Additional investment proposal for environment protection including abatement of pollution.

1. The unit is a ISO 9001:2018, ISO 14001:2015, ISO 18001: 2018, ISO 50001:2018 and SA 8000:2014 Standard compliant.
2. Internal Environmental Audits are carried out periodically to reduce Water, Air, Noise Pollution.
3. All Hazardous, Non-hazardous and Bio-Medical Waste is disposed off to authorized vendors approved by state pollution control board.
4. Extensive Tree Plantation is carried out throughout the year and further trees are donated to nearby villages Dhaula, Fatehgarh Channa, Bhaini Jassa, Kotduna, Kale ke, Kahne Ke. for Environment Sustainability.
5. Regular monitoring of Ambient Air Quality: Ambient air quality is monitored with respect to PM10 two times in a month and gaseous pollutants such as SO₂ & NO₂, CO are performed regularly at an interval of one year. All the parameters have been found to be well within the prescribed limit of PPCB/CPCB/MoEF.
6. Ambient & Source Noise level is monitored regularly two times in a month and results area compared with prevailing standards laid by Central Pollution Control Board, Ministry of Environment & Forests, Govt. of India.
7. Regular monitoring of Ground Water Quality: Ground water quality is monitored regularly during pre-monsoon and post monsoon by drawing samples from different locations.
8. Jal Prabandhan Va Sanrakahan Committee is formed and working at site for Water Conservation
9. All Greenhouse Gas Emissions are being quantified and verified by third party in accordance with ISO 14064 standard and report is published on company website
10. Installation of overhead transfer system for transfer of High TDS and Low TDS

Effluent streams

11. We have started using maximum canal water for our process requirement to save ground water abstraction
12. We have installed a Continuous Ambient Air Monitoring System at main Gate of Company for real-time monitoring of Air quality parameters. (Investment 50 Lacs).
13. We have installed Online Continuous display board as per guidelines of NGT (Investment 5.0 Lacs).
14. We have installed a new STP of 75 KL in unit.

PART – I

Any other particulars for improving the quality of Environment

- Installation of Solar Panels is taken up for Scope-02 emissions reduction by reducing Power consumption from Grid
- Extensive green belt plantation inside and outside premises and nearby villages
- Maintaining of Nature Parks in nearby areas
- Procurement of EV Vehicles , EV Golf Car for cutting down Scope-01 GHG emissions in line with Sustainability Roadmap
- Installation of Sludge Dryer for achieving Sludge volume reduction and reducing quantity of lanfillable Hazardous Waste

Dated: 25/09/2023



(Authorized signatory)
IOL Chemicals and Pharmaceuticals Ltd.

**PUNJAB POLLUTION CONTROL BOARD**

AIR LABORATORY, HEAD OFFICE, VATAVARAN BHAWAN, PATIALA

Telefax: 0175-2302392

Email: ppcbairlab@gmail.com

1. Laboratory Sample No. 1291-93/H.O. Lab./Air/Monitoring/2022/13
2. Name of Industry M/s IOL Chemicals & Pharmaceuticals Ltd. Vill
Fatehpur Channa, Main road Distt Barnala
3. Name of Sample collecting Officer Er. Ramandeep Sidhu EE, Er. Vipul Kourat, AEE &
Mrs Shuminder Kaur SA
4. Designation of authorizing Test Environmental Engineer, Regional Office, Sangrur
5. Type of Sample Stack Emission
6. Date & Time of Sample collection 1.2.2023
7. Date & Time of Sample receipt in Lab. 2.2.2023
8. Point of Sample collection As per Datasheet

RESULTS

S.No.	Point of Sample Collection	Parameter	Results	Prescribed Standard
1.	From Port Hole on common stack after APCD of Boilers of Cap. 80 TPH	Particulate Matter (mg/Nm ³ at 12 % CO ₂)	88	150
2.	From Port Hole on stack of Thermopac 2 Lac Kcal(I.B.U) Furnace)	Particulate Matter (mg/Nm ³ at 12 % CO ₂)	109	-
3.	From Port Hole on stack of Thermopac 2 Lac Kcal(I.B.B Furnance)	Particulate Matter (mg/Nm ³ at 12 % CO ₂)	123	-

Note: If any, other limits/specific standard has been prescribed time to time by MoEF&CC, CPCB and PPCB then those limiting/specific standard would prevail subject to clarification from the concerned Regional Office.

Analysed by

Scientific Officer
(Air Lab)

Endst. No: 3977-79

Dt. 10-2-23

A copy of the above is forwarded to the following for information and necessary action:

1. The Chief Environmental Engineer (Air), Punjab Pollution Control Board, Jalandhar
2. The Senior Environmental Engineer, Punjab Pollution Control Board, ZO-II, Patiala
3. The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Sangrur.

Asstt. Scientific Off

PUNJAB POLLUTION CONTROL BOARD
AIR LABORATORY, HEAD OFFICE, VATAVARAN BHAWAN, PATIALA
Telefax: 0175-2302392 Email: ppchairlab@gmail.com

1. Laboratory Sample No. 895-896/H.O.Lab./Air/Monitoring/2022-23
 2. Name of Industry M/s IOL Chemicals & Pharmaceuticals Ltd. VIII
 3. Name of Sample collecting Officer Fatehpur Channa, Mansa road Distt Barnala
 4. Designation of authorizing Test Er. Rajeev Gupta EE, Er. Vipin Kumar, AEE & Mrs Shaminder Kaur SA
 5. Type of Sample Environmental Engineer, Regional Office- Sangrur
 6. Date & Time of Sample collection Stack Emission
 7. Date & Time of Sample receipt in Lab. 27.9.2022
 8. Point of Sample collection 28.9.2022
- As per Datasheet

RESULTS

S.No.	Point of Sample Collection	Parameter	Results	Prescribed Standard
1.	From Port Hole on common stack after APCD of Boilers of Cap. 80 TPH	Particulate Matter (mg/Nm ³ at 12 % CO ₂)	65	150
2.	From Port Hole on stack after APCD Thermopac 2 Lac Keal	Particulate Matter (mg/Nm ³ at 12 % CO ₂)	70	-

Note:- If any, other limits/specific standard has been prescribed time to time by MoEF&CC, CPCB and PPCB then those limits/specific standard would prevail subject to clarification from the concerned Regional Office.

[Signature]
Analysed by

[Signature]
Scientific Officer
(Air Lab)

Endst. No: 2967-69

Dt. 04/10/2022

A copy of the above is forwarded to the following for information and necessary action:

1. The Chief Environmental Engineer (Air), Punjab Pollution Control Board, Jalandhar
2. The Senior Environmental Engineer, Punjab Pollution Control Board, ZO-II, Patiala
3. The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Sangrur

[Signature]
Asstt. Scientific
(Air Lab)



Continuous Ambient Air Quality Monitoring Station

Environ Tech Laboratories

Plot No. C-101, Industrial Area, Phase-7, Sector 73, Mohali, Punjab - 160059
Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TEST REPORT



Dispatch No:-ETL/DSP/222011

To
M/s IOL CHEMICALS AND PHARMACEUTICALS LIMITED
VILLAGE AND POST OFFICE HANDIAYA,
FATEHGARH CHHANNA ROAD BARNALA, PUNJAB

Report No.	ETL/44/2022/O/221195F	Report Date	26.07.2022
Your Ref. No.	Nil	Type of sample	Effluent Treated Water (ETP-Outlet)
Sample Code Given by Customer	Nil	Quantity	2 Liter + 1lt (Glass Bottle)
Sampling Location	ETP-Outlet	Date of sampling	18.07.2022
Sample Collected by	Mr K,K Mishra	Date of sample receipt	19.07.2022
Sampling procedure	ETL/STP/W/33	Sample I.D.	ETL/32/2022/O/1195F
		Date of test	19.07.2022 - 26.07.2022
Sample Description	Slightly Turbid Water		

S. No.	PARAMETERS	TEST RESULTS	STANDARDS			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1.	pH	7.45	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS:3025 (Part-11)2002,Reaff.2017
2.	Total Suspended Solids, mg/L	8.5	100	600	200	IS:3025(Part-17)2012,Reaff.2017
3.	Total Dissolved Solid, mg/L	5520	-	-	-	IS:3025(Part-16)2006,Reaff.2017
4.	Bio-chemical Oxygen Demand at 27°C, 3 days, mg/L	22.5	30	350	100	IS:3025(Part-44)2009,Reaff.2014.
5.	Chemical Oxygen Demand, mg/L	160	250	No guideline	No guideline	IS:3025(Part-58)2006,Reaff.2017
6.	Oil and Greases, mg/L	5.5	10	20	10	IS:3025(Part-39)2003,Reaff.2014

Note:

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

Alisu.
(Analyzed By)

AJAY KUMAR SAINI
Technical Manager
Environ Tech Laboratories
(Authorized Signatory)

