IOL CHEMICALS AND PHARMACEUTICALS LIMITED

IOLCP/PPCB/2025/115 **Dated: 05/09/2025**

To,

The Environmental Engineer,
Punjab Pollution Control Board,
Regional Office,
Barnala.

Subject: Submission of Environmental Statement (Form-V) for FY 2024-25 of M/s IOL Chemicals and Pharmaceuticals Limited situated at Village - Fatehgarh Channa Mansa Road, Barnala - 148101, Punjab.

Dear Sir,

Kindly refer to the above subject, we are enclosing herewith **Environmental Statement** for the **FY 2024-25** in **Form-V** as per Environment (Protection) Rules,1986.

We hope you will find the same in right order. Kindly acknowledge the receipt of the same.

Thanks & Regards

05/09/25

(Authorized signatory)

IOL Chemicals and Pharmaceuticals Limited

Encl.: Duly Filled Form - V

CC to: The MoEF&CC, Regional Office, Chandigarh.

Head Office : 85, Industrial Area 'A', Ludhiana. 141 003 (Pb.) India CIN - L24116PB1986PLC007030
Ph. : +91-161-2225531-35 Fax : +91-161-2226929, 2608784 email : contact@iolcp.com Website : iolcp.com
Works: Village Fatehgarh Channa, Mansa Road (Trident Complex), Barnala-148101. Punjab, India.
Ph. : +91-1679-285285-86, Fax : +91-1679-285292

IOL Chemicals and Pharmaceuticals Limited

ENVIRONMENTAL STATEMENT

IN

FORM-V

(Under Rule-14, Environmental (Protection) Rules, 1986)

FY-2024-25

FOR

IOL Chemicals and Pharmaceuticals Limited

Village: Fatehgarh Channa Mansa Road,
Barnala, Punjab - 148101.

Submitted to:

1. **Punjab Pollution Control Board (PPCB).**
2. **Ministry of Environment, Forest and Climate Change (MOEFCC), Regional Office Chandigarh.**

Our efforts are aligned with global development priorities, ensuring that our actions contribute meaningfully to pressing environmental, social and governance challenges.

Certifications & Accreditations: EHS & Sustainability

ISO 14001:2015 | ISO 9001:2015 | ISO 37001:2016 | ISO 20400 :2017 | ISO 50001:2018 | ISO 14064-1 | ISO 45001:2018 | ISO 22000: 2018

PSCI Pharmaceutical Supply Chain Initiative

Sedex SMETA

SILVER | Top 15% ecovadis Sustainability Rating JUN 2025

ISCC International Sustainability & Carbon Certification

ISO 27001:2022

ISCC - Speciality Chemicals

Responsible Care® Our commitment to sustainability

SA 8000:2014 Certified Company

CII Confederation of Indian Industry

CII Certified professional on Sustainability

SCIENCE BASED TARGETS Driving Ambitious Corporate Climate Action

CO2

Third party Verified GHG & Integrated Report

CDP

ENVIRONMENTAL STATEMENT FORM – V

Environmental statement for the financial year ending 31st March, 2025

FOR THE YEAR: 2024-25

CONTENTS

LIST OF ANNEXURES

CHAPTER – I

INTRODUCTION

1.1 GENESIS:

The Gazette Notification vide G.S.R No. 329 (E) dated 13th March, 1992 and subsequently renamed to 'Environmental Statement' vide Ministry of Environment & Forests (MOEF), Govt. of India gazette notification No. G.S.R No. 386 (E) dated 22nd April'93 reads as follows.

"Every person carrying on an industry, operation or process requiring consent under section 25 of the Water Act, 1974 or under section 21 of the Air Act, 1981 or both or authorization under the Hazardous Waste Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Statement for the year ending 31st March in Form V to the concerned State Pollution Control Board on or before the 30th day of September every year." In compliance with the above and in fulfillment of condition laid out in the EC. We are submitting herewith Environmental Statement for the Financial Year 2024-25.

1.2 PROJECT DESCRIPTION:

M/s IOL Chemicals and Pharmaceuticals Limited is an innovation-driven company specializing in APIs (bulk drugs), intermediates, and specialty chemicals, with a strong legacy of over three decades marked by consistent growth and technological advancement. Committed to sustainable progress, IOL is strategically expanding its product portfolio with a robust pipeline of new offerings designed to support future growth while minimizing environmental impact. The unit located at **Village Fatehgarh, Channa, Tehsil & District Barnala, Punjab.** The coordinates from centre of the site are **Latitude: 30°17'52.76"N; Longitude: 75°30'9.56"E**. Within the Total land area of **723234 m^2**, approximately **264462 m^2 (65.35 acres)** has been developed as greenery accounting for **36.5%** of the total land area. **Environmental Clearance (EC)** has been granted under **Identification No. EC24A2406PB5618196N** and **Proposal No. IA/PB/IND3/490468/2024,** issued on **09th December 2024,** for a combined peak production capacity of **1699.05 TPD** (excluding formulation activities).

As an APIs and specialty chemicals focused company, IOL leverages substantial manufacturing capacities that enable economies of scale and cost efficiency, all while integrating eco-conscious practices across its operations. Its deep expertise in specialty chemicals and APIs not only broadens its market opportunities but also reinforces a resilient and diversified business model.

IOL's comprehensive API portfolio spans multiple therapeutic areas—including pain management, anti-diabetic, anti-hypertensive, and anti-convulsant segments—supporting

global health needs with a focus on responsible manufacturing and environmental stewardship.

IOL Vision: Our vision is to be among the best specialty chemical companies across the globe. We also want to be the most admired and sought-after API pharma companies in the world. We aspire to contribute to green and sustainable pharmacy by proper use of pharmaceuticals and specialty chemicals.

IOL Mission: Our Mission Through continuous research and development, we want to manufacture a wide range of innovative pharmaceutical products that will bring about a change in human lives. Also, making it possible to provide top quality products in APIs, Intermediates and Specialty Chemicals through cutting-edge and innovative technologies, with utmost regard for safety and environment.

IOL Values: IOL Chemicals and Pharmaceuticals Limited celebrates a culture of collaboration, mutual respect, honesty and support. Here, we believe in people-first approach and go the extra way to challenge them to deliver their best. As the best specialty chemical company, we are always experimenting, innovating and strategizing to solve your problems and understand your long-term goals. We believe values bring character to any organization that help build leaders in the future.

IOL Promises: IOL Chemicals and Pharmaceuticals Limited is a trusted partner for delivering high quality products. Our fundamental value system ensures that we stand by our commitments. With strict manufacturing protocols to comply with, our products adhere to the highest quality standards. As one of the leading pharmaceutical and specialty chemical manufacturing company, we emphasize on after-sales service by ensuring meaningful support and assistance to our customers, globally.

1.3 ENVIRONMENTAL SCENARIO:

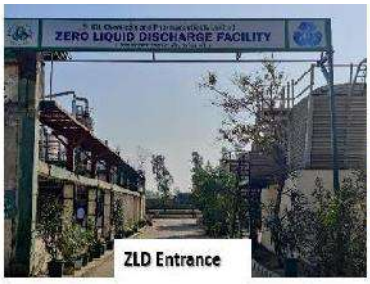
IOLCP demonstrates exemplary commitment to environmental stewardship through a comprehensive and positive approach to mapping and managing its waste streams. The company has implemented a robust waste segregation system at source itself, distinguishing hazardous and non-hazardous wastes, with specific areas designated for hazardous waste storage to ensure safety and regulatory compliance. It actively minimizes waste generation by optimizing process controls, reusing by-products and employing automated close loop systems to reduce spillage and environmental emissions. IOLCP has implemented a comprehensive set of control measures to prevent contamination of groundwater. IOL Chemicals and Pharmaceuticals Ltd (IOLCP) has a state-of-the-art Zero Liquid Discharge (ZLD) facility as part of its environmental initiatives, which reflects the company's commitment to minimizing its environmental impact.

This approach not only conserves fresh water but also eliminates the risk of groundwater pollution from industrial discharge. ZLD systems minimize environmental impact and adhere to environmental regulations by recovering and reusing all recovered water. Domestic /Sewage effluent is also segregated at Source and treated in well-designed Sewage treatment plant (STP) .

IOLCP has installed all latest technologies for treatment of effluent like ETP, DAF, RO, MEE, MVRE, ATFD, Sludge Dryer. These systems transform wastewater into usable water and solid waste using processes like evaporation, and membrane technologies, preventing liquid discharge into the environment. ZLD systems are becoming increasingly critical for industrial wastewater treatment due to growing public concern about water scarcity and environmental degradation. We use a rigorous ZLD standard operating procedure (SOP) and have a specialized laboratory for evaluating stream parameters to ensure safe water management.

All Process Effluent generated from Manufacturing activities is segregated at source and treated separately in well-designed wastewater treatment plant to recover good quality water for reuse in Cooling towers as make up water. No discharge of effluent containing residual API traces outside or inside of premises takes place and 100% ZLD conditions are maintained round the clock.

Our ZLD Facility



ZLD Entrance


ETP


Filtration Systems

RO


DAF


MEE/ATFD

CHAPTER – II

(FORM –V)

(See Rule 14)

Environmental Statement report for the financial year ending the 31st March

PART–A

(i)	Name and address of the occupier of the industry, operation or process	Sh. Kushal Kumar Rana Executive Director (Works) IOL Chemicals and Pharmaceuticals Ltd. Village: Fatehgarh Channa Mansa Road, Barnala - 148101, Punjab.
(ii)	Industry category	Large (Red)
(iii)	Production Capacity	Chemicals: **143490** TPA and API's : **19289** TPA
(iv)	Year of Establishment	29-09-1986
(v)	Date of last Environmental Statement report	17th June 2024

PART–B

WATER AND RAW MATERIAL CONSUMPTION

Average Water Consumption per Day

Process + washing	482 m^3
Cooling	61 m^3
Domestic + Laundry	56 m^3
Boiler	110 m^3
Misc	16 m^3

i) **Water Consumption per unit of Products**

S.No	Name of Product	Water consumption per MT of products	
		During the previous financial year (2023-2024)	During the current financial year (2024-2025)
1	Ethyl Acetate	0.52 KL/MT	0.52 KL/MT
2	Acetic Anhydride	0.15 KL/MT	0.16 KL/MT
3	Ibuprofen	4.32 KL/MT	4.30 KL/MT
4	Monochloro acetic acid	0.25 KL/MT	0.25 KL/MT
5	Acetyl chloride	0.312 KL/MT	0.31 KL/MT
6	IBB	0.750 KL/MT	0.748 KL/MT
7	Metformin Hydrochloride	1.40 KL/MT	0.25 KL/MT
8	Lamotrigine	40.0 KL/MT	40.0 KL/MT
9	Fenofibrate HCL	16.00 KL/MT	16 KL/MT
10	Clopidogrel Bisulphate	12.5 KL/MT	12.04 KL/MT
11	Gabapentene	2.0 KL/MT	2.0 KL/MT
12	Losartan	10.07 KL/MT	10.0 KL/MT
13	Paracetamol	5.00 KL/MT	6.0 KL/MT
14	Pantoprazole	11.0 KL/MT	10.1 KL/MT
15	Dexibuprofen	No Production	8.0 KL/MT
16	Ibuprofen Lysinate	No Production	10.0 KL/MT
17	Ibuprofen Sodium	No Production	2.5 KL/MT
18	Levetiracetam	No Production	8.2 KL/MT
19	Mesalamine	No Production	4.11 KL/MT
20	Minoxidil	No Production	30.66 KL/MT
21	Imeglimin	No Production	1.0 KL/MT

ii) **Raw Material Consumption**

Name of raw Materials	Name of products	During the Previous Financial year (2023-2024)	During the Current Financial year (2024-2025)
Ethyl Alcohol	Ethyl Acetate	701 Ltr/MT	682 Ltr/MT
Acetic Acid	Ethyl acetate	686 Kg/MT	685 Kg/MT
Acetic Acid	Acetic Anhydride	1215 Kg/MT	1221 Kg/MT
Iso Butyl Benzene	Ibuprofen	781 Kg/Mt	783 Kg/MT
Chlorine	MCA	785 Kg/MT	791 Kg/MT
A/anhydride	Acetyl chloride	1316 Kg/MT	1305 Kg/MT
Propylene	IBB	546 Kg/ MT	542 Kg/ MT
Toluene	IBB	836 Kg/ MT	839 Kg/ MT
Dicyanamide	Metformin	545 Kg/MT	545 Kg/MT

	Hydrochloride		
Dimethyl Amine Hydrochloride	Metformin Hydrochloride	570 Kg/MT	570 Kg/MT
2, 3 Dichloro Benzoyl Nitrile	Lamotrigine	966 Kg/MT	966 Kg/MT
4-Chloro benzoyl Chloride	Fenofibrate	698 Kg/MT	659 Kg/MT
Anisole	Fenofibrate	431 Kg/MT	407 Kg/MT
Thiopene-2 ethanol	Clopidogrel Bisulphate	528 Kg/MT	551 Kg/MT
2-Chlorophenyl Glycine	Clopidogrel Bisulphate	872 Kg/MT	917 Kg/MT
Maltol	Pantoprazole	742 Kg/MT	711 Kg/MT
5-difluoro Methoxy 2-mercapto benzimidazole	Pantoprazole	626 Kg/MT	624 Kg/MT
Methylcyanoacetate	Gabapantene	1543 Kg/MT	1543 Kg/MT
Cyclohexanone	Gabapantene	1528 Kg/MT	1528 Kg/MT
PNCB	Paracetamol	1225 Kg/MT	1202 Kg/MT
BCFI	Losartan	672 Kg/MT	672 Kg/MT
OTBN	Losartan	818 Kg/MT	818 Kg/MT
NODG	Dexibuprofen	-	830 Kg/MT
DL-Lysine Base (50%)	Ibuprofen Lysinate	-	895 Kg/MT
SABA HCl	Levetiracetam	-	959 Kg/MT
4-Chlorobutyryl chloride	Levetiracetam	-	1024 Kg/MT
Ortho Chloro Benzoic Acid (OCBA)	Mesalamine	-	1605 Kg/MT
POCl3	Minoxidil	-	337 Kg/MT
TEA	Minoxidil	-	339 Kg/MT
Metfromin	Imeglimin	-	3814 Kg/MT
L (+) Tartaric acid	Imeglimin	-	2787 Kg/MT

PART – C

Pollution generated

(Parameters as specified in the consent issued)

<table>
<tr><th>Pollutants</th><th>Parameters</th><th>Percentage of variation from prescribed Standard with reasons</th></tr>
<tr><td>a) Water</td><td>
<table>
<tr><th>Parameters</th><th>Final Outlet (RO Permeate) analysis on dated 14.09.2024</th><th>Final Outlet (RO Permeate) analysis on dated 27.12.2024</th></tr>
<tr><td>pH</td><td>7.2</td><td>7.00</td></tr>
<tr><td>COD(mg/l)</td><td>04</td><td>08</td></tr>
<tr><td>BOD(mg/l)</td><td>BDL</td><td>BDL</td></tr>
</table>
</td><td>No Variation From Prescribed standards</td></tr>
<tr><td>b) Air</td><td>
<table>
<tr><th>Point of sample Collection</th><th>Parameters</th><th>Results from PPCB on dated 13.12.2024</th><th>Results from PPCB on dated 20.03.2025</th><th>Prescribed limits by PPCB</th></tr>
<tr><td>Port Hole on Stack after APCD of Boiler 80 TPH</td><td>Particulate matter at 12% CO_2</td><td>35 mg/Nm^3</td><td>40 mg/Nm^3</td><td>Less than 50 mg/ Nm^3 at 12% CO_2</td></tr>
<tr><td>Port Hole on Stack after APCD (IBAP Scrubber)</td><td>Acid Mist HCL</td><td>-</td><td>6 mg/Nm^3</td><td>Less than 35 mg/ Nm^3 at 12% CO_2</td></tr>
<tr><td>Port Hole on Stack after APCD (Thermopack)</td><td>Particulate matter at 12% CO_2</td><td>83 mg/Nm^3</td><td>68 mg/Nm^3</td><td>Less than 500 mg/ Nm^3 at 12% CO_2</td></tr>
</table>
</td><td>No Variation From Prescribed standards</td></tr>
</table>

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 (2023-2024)	During the current Financial year (2024-2025)
Mobile oil	5.1	2760 Ltrs.	3540 Ltrs.
Waste or Residues Containing Oil	5.2	1.000 MT	0.800 MT
Distillation Residue	20.3	5.055 MT	14.600 MT
Process Residue & Waste	28.1	3.872 MT	12.920 MT
Spent Catalyst	28.2	5.965 MT	5.720 MT
Spent Carbon	28.3	33.238 MT	50.360 MT
Off Specification Product	28.4	3.185 MT	8.550 MT
Date Expired Product	28.5	0.360 MT	0.000 MT
Spent Solvents	28.6	0.00 MT	72.125 MT
Empty Barrels	33.1	37.400 MT	42.350 MT
Cotton Rags	33.2	1.360 MT	0.850 MT
ETP Sludge	35.3	283.192 MT	415.540 MT
Spent Carbon	36.2	8.942 MT	17.210 MT
Sludge from Wet Scrubbers	37.1	0.00 MT	0.000 MT
Ash from incinerator and Flue gas cleaning residue	37.2	0.980 MT	1.220 MT
Concentration and Evaporation Residue	37.3	2086.369 MT	2131.184 MT

PART – E

(SOLID WASTES)

Name of Solid Waste	Total Quantity in Mt	
	During the previous Financial year (2023-2024)	During the current Financial year (2024-2025)
Boiler Ash	19639 MT	23709 MT
Battery Scrap	2.690 MT	2.030 MT
Bio Medical waste	0.023 MT	0.010 MT

E-waste	1.05 MT	0.380 MT
Plastic Waste	-	43.99 MT
Metal Scrap	-	680.74 MT
Paper /Gatta Scrap	-	162.83 MT
Polythene Scrap	-	285.88 MT
Wooden Scrap	-	367.67 MT
Glass Scrap	-	27.9 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 authorized TSDF.
2.	Boiler ash	Solid	Carbon	Sent to Low lying area and agriculture fields with consent of Panchayat.
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 authorized TSDF.
5.	Spent catalyst	Solid	Organic + Inorganic Salt	Stored in Hazardous waste room in Environmentally sound manner and sent to authorized TSDF.
6.	Spent carbon	Solid	Carbon	Stored in Hazardous waste room in Environmentally sound manner and sent to authorized TSDF.
7.	Off Specification products	Solid	Organic Salt	Stored in Hazardous waste room in Environmentally sound manner and sent to authorized TSDF.
8.	Date- expired products	Solid	Organic Salt	Stored in Hazardous waste room in Environmentally sound manner and sent to

				authorized TSDF.
9.	Spent solvents	Liquid	Solvent Mixture	Stored in Hazardous waste room in Environmentally sound manner and sent to authorized recycler.
10.	Empty barrels/containers /liners containated with hazardous chemicals /wastes	Solid	Plastic	Store in Scrap Yard, sent to authorized recycler.
11.	Contaminated cotton rags or other cleaning materials	Solid	Cotton + Cloth	Stored in Hazardous waste room in Environmentally sound manner and sent to authorized TSDF.
12.	ETP Sludge	Solid	Sand and fines + Biological Mass	Stored in Hazardous waste room in Environmentally sound manner and sent to authorized TSDF.
13	Spent carbon or filter medium	Solid	Carbon	Stored in Hazardous waste room in Environmentally sound manner and sent to authorized TSDF.
14	Sludge Wet Scrubber	Solid	Organic + Inorganic Salt	Stored in Hazardous waste room in Environmentally sound manner and sent to authorized TSDF.
15	Ash from Incinerator and Flue gas cleaning residue	Solid	SiO_2 + Carbon	Stored in Hazardous waste room in Environmentally sound manner and sent to authorized TSDF.
16	Concentration and Evaporation Residue	Semi Solid	Organic + Inorganic Salt	Stored in Hazardous waste room in Environmentally sound manner and sent to authorized TSDF.

PART – G

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

Water Pollution

- IOLCP set up a state-of-the-art ZLD Plant for treating wastewater. ETP Treated effluent goes into DAF, After DAF treated water goes in RO Plant, RO Permeate goes in to cooling tower and RO reject goes in to MEE/MVR and MEE/MVR condensate goes in to cooling tower, MEE/MVR concentrate goes to ATFD, ATFD salt sent to TSDF.
- Online effluent quality monitoring system (OEQMS) through CCTV camera and the same

has been connected to CPCB/SPCB.

- We have built canal water reservoir of 40000 KL capacity for storage of canal water.

Air Pollution:

- IOLCP using latest air pollution control devices to maintain the ambient environmental conditions, Water Scrubber and Alkali Scrubber are installed in each process stack and same are adequate to maintain the parameters within the prescribed limit.
- ESP's are provided on Boilers for eliminating the fine particulates from flue gas before it exits through the chimney.
- Online Continuous Emission Monitoring System (OCEMS) is in place for continuously monitoring the boiler stack. The gaseous emissions from various process units are being monitored quarterly by the NABL/MoEF&CC authorized Laboratory.
- Necessary interlocks have been envisaged to cut off the feeds in case of failure of pollution control devices.
- Fugitive emissions monitoring is being carried out on Quarterly basis in work zone environment.
- Monitoring the ambient air quality is a priority, and we have installed a continuous air quality monitoring system (CAAQMS) to monitor real-time ambient air quality.

Noise Pollution

- Acoustic Enclosures and Mufflers are already provided at all required locations.
- Vibration pads and foundation are provided at all heavy machinery areas.
- Earmuffs are being used while working in high noise areas. Separate cabins are provided.
- Plantation has been done across the premises to provide noise barrier.
- Periodic Noise Monitoring is carried out.

Other Efforts

- 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, 2014 and 2016 by Ministry of Power, Government of India.
- Indian Chemical Council (ICC) awarded Responsible Care® Logo to the Company for a period of three years.
- IOL Awarded Silver Medal by EcoVadis, achieving an impressive score of 71 with a percentile ranking of 89%. Among the Top 15% companies globally.
- IOLCP is ISCC Plus certified for specialty chemicals and green fuels.
- We achieved this year carbon emission Reduction of 6.75% Combined in Scope 1 + 2 and 14% in Scope 3.
- 7 no's AC's replaced with Low GWP refrigerant for the FY-2024-25.

PART – H

Additional investment proposal for environmental protection including abatement of pollution.

- Internal Environmental Audits are done to reduce Water, Air, Noise Pollution.
- Installation of 610 KW Solar Panels is taken up for Scope -02 emissions reduction by reducing Power consumption from Grid.
- Installation of MEE Evaporator System 300KLD with Pusher Centrifuge to enhance the wastewater treatment capacity and investment in new and cost-effective technologies.
- Expanding hazardous waste storage capacity by constructing storage shed.
- We distributed plants (trees) to nearby villages and areas to increase the tree plantation for Environment Sustainability.
- We developed Two Nos. of Biodiversity Park in Barnala and maintain area throughout the year.
- We have planned the Cleaning of ponds in nearby villages to increase the capacity of rainwater harvesting.
- We are planning to Install a Sludge Dryer and Reverse Osmosis (RO) plant for wastewater treatment and enhance the capacity of pollution control systems.
- We are targeting to achieve the gold medal in EcoVadis and 'A' rating for the CDP water security for the FY 2025-26.
- We are planning to install vermicomposting system to convert the waste (e.g. food/gardening) in organic manure to reduce the uses of chemical fertilizers for plantation.

PART-I

Any other particulars for improving the quality of the environment.

- Various high oxygen producing species of tree planted within the premises throughout the year, and the same donated through CSR drives outside.
- Installation of 510 kw Solar panels to generate the renewable source of power. Also helps in reduction of Scope -02 Carbon emissions.
- We have modified our AFBL Boiler 80 TPH and 55 TPH with over bed feeding system to use paddy straw pellets or paddy straw briquettes in the boiler.
- Within the existing land area of 723234 m2, approximately 264462 m2 (65.35 acres) has been developed as greenery accounting for 36.5% of the total land area. A total of 58,055 trees has been planted within the premises.
- We have started using maximum canal water for our process requirement to save ground water. We will increase our canal water storage capacity to 40000 kl.
- We have received 'B' rating for the CDP water security & level 'C' in climate change disclosure for FY 2024-25.
- Power saving by upgrading from Condensing cum extraction turbine to a High-Performance Back Pressure Turbine.
- Improving Energy Efficiency in old Brine Chiller through Compressor Upgrade and Volume Injection (VI) Technology.
- Replacement of Old turbine with Advance technology turbine for increased Power Generation.

- In FY 2024-25 the biofuel (Rice husk) consumption is increased by 7.32% against FY 2023-24 which leads to a significant reduction in Scope 1 emissions it shows organization commitment towards net zero goals.
- We have implemented Fire Alarm System and smoke detectors to safeguard all the operations with critical processes.
- We installed hydrogenation plant to generate hydrogen by water electrolysis a latest and greener technology with minimum environment impact.

Dated: 04.09.2025

(Authorized signatory)
IOL Chemicals and Pharmaceuticals Ltd.

Annexure No. - 01

Environ Tech Laboratories

CPCB Recognized under EPA, 1986; ISO 9001:2015; OHSAS ISO 45001:2018

Plot No. C-101, Industrial Area, Phase -VII, Sector-73, Mohali, Punjab- 160059
Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TC-5879

TEST REPORT

IOL Chemical & Pharmaceuticals Limited
Village & Post Office-Handiya,Fatehgarh Chhanna Road Barnala, Punjab-148101

Customer Ref. Number	Not Mentioned	Report No.	ETL/04022025/0264
Sample Code given by Customer	Not Mentioned	Report Date.	04.02.2025
Type of Sample	Ambient Air	ULR No.	TC587925000000245F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/27012025/0264
Quantity	1.00 NOS	Date of Sampling	24.01.2025 - 25.01.2025
Sampling Location	Near Main Gate	Date of Sample Receipt	27.01.2025
Sample Collected By	Mr. K.K. Mishra & Team	Date of Test Performance	27.01.2025 - 04.02.2025
Sampling Procedure	As per lab SOP	Packing Mode	Plastic Bottle & Air tight Bag

Discipline: Chemical **Group: Atmospheric Pollution**

	TECHNICAL DATA	
1	Location of Sampling Station	Near Main Gate
2	Instrument Used for Sampling	RDS , PM2.5 Sampler & Gaseous Sampler
3	Source of Sampling	Ambient Air Monitoring
4	Temperature of Sampling Location	23°C
5	Environmental Condition	Max temp. 25°C Min temp. 15°C Clear Sky
6	Flow Rate of Gaseous Sampling	0.5 &1 LPM
7	Time Period for Sampling	24 Hrs

Sr.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	Respirable Suspended Particulate Matter(PM10)	71.0	100.0 µg/m3	10 µg/m3	IS:5182(P-23) 2006
2	Sulphur Dioxide (SO2)	10.4	80.0 µg/m3	2.0 µg/m3	IS:5182(P-2) 2001
3	Nitrogen Dioxide (NO2)	20.0	80.0 µg/m3	2.0 µg/m3	IS:5182(P-6) 2006
4	Fine Particulate Matter(PM2.5)	38.9	60.0 µg/m3	10 µg/m3	IS: 5182(P-24) 2019
5	Carbon Monoxide (CO)	0.97	4.0 mg/m3 (1 hr)	0.5 mg/m3	IS:5182(P-10) 1999
6	Nickel (Ni)	BDL	20.0 ng/m3	15 ng/m3	IS:5182(P-26) 2020
7	Arsenic (As)	BDL	6.0 ng/m3	5.0 ng/m3	SOP No.ETL/Air/2022/08
8	Lead (Pb)	BDL	1.0 µg/m3	0.1 µg/m3	IS:5182(P-22) 2004
9	Benzene (C6H6)	BDL	5.0 µg/m3	0.5 µg/m3	IS:5182(P-11) 2006
10	Benzo(a)pyrene (BaP)	BDL	1.0 ng/m3	1.0 ng/m3	IS:5182(P-12) 2004
11	Ammonia (NH3)	BDL	400.0 µg/m3	20 µg/m3	IS:5182(P-25) 2018
12	Ozone (O3)	24.0	180.0 µg/m3(1hr)	5.0 µg/m3	IS:5182 (P-9) 1974

END OF REPORT

Environ Tech Laboratories ETL Mohali

Authorized Signatory:-
Technical Manager-I
Environ Tech Laboratories

Note: BDL: Denotes Below Detection Limit DL: Denotes Detection Limit
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 fifteen days from the date of issue of test report unless otherwise specified.

Environ Tech Laboratories

CPCB Recognized under EPA, 1986; ISO 9001:2015; OHSAS ISO 45001:2018

Plot No. C-101, Industrial Area, Phase -VII, Sector-73, Mohali, Punjab- 160059
Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TC-5879

TEST REPORT

IOL Chemical & Pharmaceuticals Limited
Village & Post Office-Handiya,Fatehgarh Chhanna Road Barnala, Punjab-148101

Customer Ref. Number	Not Mentioned	Report No.	ETL/04022025/0263
Sample Code given by Customer	Not Mentioned	Report Date.	04.02.2025
Type of Sample	Ambient Air	ULR No.	TC587925000000244F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/27012025/0263
Quantity	1.00 NOS	Date of Sampling	24.01.2025 - 25.01.2025
Sampling Location	Near ETP Area	Date of Sample Receipt	27.01.2025
Sample Collected By	Mr. K.K. Mishra & Team	Date of Test Performance	27.01.2025 - 04.02.2025
Sampling Procedure	As per lab SOP	Packing Mode	Plastic Bottle & Air tight Bag

Discipline: Chemical **Group: Atmospheric Pollution**

TECHNICAL DATA

1	Location of Sampling Station	Near ETP Area
2	Instrument Used for Sampling	RDS , PM2.5 Sampler & Gaseous Sampler
3	Source of Sampling	Ambient Air Monitoring
4	Temperature of Sampling Location	23°C
5	Environmental Condition	Max temp. 25 °C
		Min temp.15 °C
		Clear Sky
6	Flow Rate of Gascous Sampling	0.5 &1 LPM
7	Time Period for Sampling	24 Hrs

Sr.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	Respirable Suspended Particulate Matter(PM10)	64.2	100.0 µg/m3	10 µg/m3	IS:5182(P-23) 2006
2	Sulphur Dioxide (SO2)	9.5	80.0 µg/m3	2.0 µg/m3	IS:5182(P-2) 2001
3	Nitrogen Dioxide (NO2)	18.6	80.0 µg/m3	2.0 µg/m3	IS:5182(P-6) 2006
4	Fine Particulate Matter(PM2.5)	36.0	60.0 µg/m3	10 µg/m3	IS: 5182(P-24) 2019
5	Carbon Monoxide (CO)	0.85	4.0 mg/m3 (1 hr)	0.5 mg/m3	IS:5182(P-10) 1999
6	Nickel (Ni)	BDL	20.0 ng/m3	15 ng/m3	IS:5182(P-26) 2020
7	Arsenic (As)	BDL	6.0 ng/m3	5.0 ng/m3	SOP No.ETL/Air/2022/08
8	Lead (Pb)	BDL	1.0 µg/m3	0.1 µg/m3	IS:5182(P-22) 2004
9	Benzene (C6H6)	BDL	5.0 µg/m3	0.5 µg/m3	IS:5182(P-11) 2006
10	Benzo(a)pyrene (BaP)	BDL	1.0 ng/m3	1.0 ng/m3	IS:5182(P-12) 2004
11	Ammonia (NH3)	BDL	400.0 µg/m3	20 µg/m3	IS:5182(P-25) 2018
12	Ozone (O3)	21.5	180.0 µg/m3(1hr)	5.0 µg/m3	IS:5182 (P-9) 1974

END OF REPORT

Environ Tech Laboratories ETL Mohali

Authorized Signatory:-
Technical Manager-1
Environ Tech Laboratories

Note:
BDL: Denotes Below Detection Limit **DL:** Denotes Detection Limit
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Environ Tech Laboratories

CPCB Recognized under EPA, 1986; ISO 9001:2015; OHSAS ISO 45001:2018

Plot No. C-101, Industrial Area, Phase -VII, Sector-73, Mohali, Punjab- 160059
Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TC-5879

TEST REPORT

IOL Chemical & Pharmaceuticals Limited
Village & Post Office-Handiya,Fatehgarh Chhanna Road Barnala, Punjab-148101

Customer Ref. Number	Not Mentioned	Report No.	ETL/04022025/0262
Sample Code given by Customer	Not Mentioned	Report Date.	04.02.2025
Type of Sample	Ambient Air	ULR No.	TC587925000000243F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/27012025/0262
Quantity	1.00 NOS	Date of Sampling	24.01.2025 - 25.01.2025
Sampling Location	Near Unit 10	Date of Sample Receipt	27.01.2025
Sample Collected By	Mr. K.K. Mishra & Team	Date of Test Performance	27.01.2025 - 04.02.2025
Sampling Procedure	As per lab SOP	Packing Mode	Plastic Bottle & Air tight Bag

Discipline: Chemical **Group: Atmospheric Pollution**

	TECHNICAL DATA	
1	Location of Sampling Station	Near Unit 10
2	Instrument Used for Sampling	RDS , PM2.5 Sampler & Gaseous Sampler
3	Source of Sampling	Ambient Air Monitoring
4	Temperature of Sampling Location	23 °C
5	Environmental Condition	Max temp. 25 °C Min temp. 15°C Clear Sky
6	Flow Rate of Gaseous Sampling	0.5 &1 LPM
7	Time Period for Sampling	24 Hrs

Sr.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	Respirable Suspended Particulate Matter(PM10)	60.8	100.0 µg/m3	10 µg/m3	IS:5182(P-23) 2006
2	Sulphur Dioxide (SO2)	8.5	80.0 µg/m3	2.0 µg/m3	IS:5182(P-2) 2001
3	Nitrogen Dioxide (NO2)	16.0	80.0 µg/m3	2.0 µg/m3	IS:5182(P-6) 2006
4	Fine Particulate Matter(PM2.5)	29.7	60.0 µg/m3	10 µg/m3	IS: 5182(P-24) 2019
5	Carbon Monoxide (CO)	0.78	4.0 mg/m3 (1 hr)	0.5 mg/m3	IS:5182(P-10) 1999
6	Nickel (Ni)	BDL	20.0 ng/m3	15 ng/m3	IS:5182(P-26) 2020
7	Arsenic (As)	BDL	6.0 ng/m3	5.0 ng/m3	SOP No.ETL/Air/2022/08
8	Lead (Pb)	BDL	1.0 µg/m3	0.1 µg/m3	IS:5182(P-22) 2004
9	Benzene (C6H6)	BDL	5.0 µg/m3	0.5 µg/m3	IS:5182(P-11) 2006
10	Benzo(a)pyrene (BaP)	BDL	1.0 ng/m3	1.0 ng/m3	IS:5182(P-12) 2004
11	Ammonia (NH3)	BDL	400.0 µg/m3	20 µg/m3	IS:5182(P-25) 2018
12	Ozone (O3)	17.8	180.0 µg/m3(1hr)	5.0 µg/m3	IS:5182 (P-9) 1974

END OF REPORT

Environ Tech Laboratories ETL Mohali

Authorized Signatory:-
Technical Manager-I
Environ Tech Laboratories

Note: BDL: Denotes Below Detection Limit DL: Denotes Detection Limit
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Environ Tech Laboratories

CPCB Recognized under EPA, 1986; ISO 9001:2015; OHSAS ISO 45001:2018

Plot No. C-101, Industrial Area, Phase -VII, Sector-73, Mohali, Punjab- 160059
Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TC-5879

TEST REPORT

IOL Chemical & Pharmaceuticals Limited
Village & Post Office-Handiya,Fatehgarh Chhanna Road Barnala, Punjab-148101

Customer Ref. Number	Not Mentioned	Report No.	ETL/04022025/0261
Sample Code given by Customer	Not Mentioned	Report Date.	04.02.2025
Type of Sample	Ambient Air	ULR No.	TC587925000000242F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/A/27012025/0261
Quantity	1.00 NOS	Date of Sampling	24.01.2025 - 25.01.2025
Sampling Location	Near ZLD Plant	Date of Sample Receipt	27.01.2025
Sample Collected By	Mr. K.K. Mishra & Team	Date of Test Performance	27.01.2025 - 04.02.2025
Sampling Procedure	As per lab SOP	Packing Mode	Plastic Bottle & Air tight Bag

Discipline: Chemical **Group: Atmospheric Pollution**

TECHNICAL DATA		
1	Location of Sampling Station	Near ZLD Plant
2	Instrument Used for Sampling	RDS , PM2.5 Sampler & Gaseous Sampler
3	Source of Sampling	Ambient Air Monitoring
4	Temperature of Sampling Location	23°C
5	Environmental Condition	Max temp. 25°C Min temp. 15°C Clear Sky
6	Flow Rate of Gaseous Sampling	0.5 &1 LPM
7	Time Period for Sampling	24 Hrs

Sr.No.	PARAMETERS	RESULTS	STANDARD	DETECTION LIMIT	TEST METHOD
1	Respirable Suspended Particulate Matter(PM10)	63.8	100.0 µg/m3	10 µg/m3	IS:5182(P-23) 2006
2	Sulphur Dioxide (SO2)	7.4	80.0 µg/m3	2.0 µg/m3	IS:5182(P-2) 2001
3	Nitrogen Dioxide (NO2)	20.0	80.0 µg/m3	2.0 µg/m3	IS:5182(P-6) 2006
4	Fine Particulate Matter(PM2.5)	33.2	60.0 µg/m3	10 µg/m3	IS: 5182(P-24) 2019
5	Carbon Monoxide (CO)	0.80	4.0 mg/m3 (1 hr)	0.5 mg/m3	IS:5182(P-10) 1999
6	Nickel (Ni)	BDL	20.0 ng/m3	15 ng/m3	IS:5182(P-26) 2020
7	Arsenic (As)	BDL	6.0 ng/m3	5.0 ng/m3	SOP No.ETL/Air/2022/08
8	Lead (Pb)	BDL	1.0 µg/m3	0.1 µg/m3	IS:5182(P-22) 2004
9	Benzene (C6H6)	BDL	5.0 µg/m3	0.5 µg/m3	IS:5182(P-11) 2006
10	Benzo(a)pyrene (BaP)	BDL	1.0 ng/m3	1.0 ng/m3	IS:5182(P-12) 2004
11	Ammonia (NH3)	BDL	400.0 µg/m3	20 µg/m3	IS:5182(P-25) 2018
12	Ozone (O3)	20.0	180.0 µg/m3(1hr)	5.0 µg/m3	IS:5182 (P-9) 1974

END OF REPORT

Environ Tech Laboratories ETL Mohali

Authorized Signatory:-
Technical Manager-I
Environ Tech Laboratories

Note: BDL: Denotes Below Detection Limit DL: Denotes Detection Limit
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Annexure No. - 02

Filet Haemaproduct... 07/05/2025

Punjab Pollution Control Board

Zonal Laboratory, E-648-B, 2nd Floor,
Phase-5, Focal Point, Ludhiana.

0161-4661770

E-mail: zlabppcbldh@gmail.com

Air Analysis Report

ਸ.ਦਾ. ਇੰਜੀ. 1 / 2 / ਸੁ.ਦਾ.ਇੰਜੀ./ਸੀਨੀ.ਸਹਾ./ਜੂ.ਸਹਾ.

ਨਵੀਂ ਡਾਕ

ਵਾਤਾ. ਇੰਜੀ.

Laboratory Sample no.: A 330/Zonal Lab/2025

Name of Industry : M/s IOL Chemicals & Pharmaceuticals Ltd., Mansa Road, Barnala.

Name of Sample Collecting Officer : Er. Vicky Bansal, Environmental Engineer
Er. Manmohit Kumar, Assistant Environmental Engineer
Er. Arshdeep Kaur, Assistant Environmental Engineer
Sh. Dalvir Singh, Assistant Scientific Officer

Date of Sample Collection : 20.03.2025

Date of sample receiving in Lab: 21.03.2025

Test Method: As per Relevant parts of IS:11255

ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਰੋਕਥਾਮ ਬੋਰਡ ਡਾਇਰੀ ਨੰ: 565 ਮਿਤੀ 06.05.2025 ਖੇਤਰੀ ਦਫ਼ਤਰ ਬਰਨਾਲਾ

ults:

	Point of Sample Collection	Parameter	Results	Prescribed Standards
	Porthole on Stack after APCD (Boiler @80TPH)	Particulate matter at 12% CO_2	40 mg/Nm^3	50 mg/Nm^3
		Acid Mist HCL	6 mg/Nm^3	35 mg/Nm^3
2.	Porthole on Stack after APCD (Thermopack)	Particulate matter at 12% CO_2	68 mg/Nm^3	500 mg/Nm^3

Note-If any stringent limits/specific standards have been prescribed by MoEF & CC, CPCB and PPCB, then the same shall prevail subject to clarification from the concerned Regional office.

---End of Report---

Scientific Officer,
Zonal Lab, Ludhiana
28/3/25

Ends. No. 711-12

Dated 01-04-2025

A copy of the above is forwarded to the following for information and necessary action please along with data sheet:-

1. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal Office-2, Ludhiana
2. The Environmental Engineer, Punjab Pollution Control Board, Regional Office- Barnala.

Punjab Pollution Control Board

Zonal Laboratory, E-648-B, 2nd Floor,
Phase-5, Focal Point, Ludhiana.
Ph. 0161-4661770 E-mail: ddppcbldh@gmail.com

Air Analysis Report

1. Laboratory Sample no.: A 178/Zonal Lab/2024
2. Name of Industry : M/s IOL Chemicals & Pharmaceuticals Ltd., VPO. Fathegarh Channa, Mansa Road, Distt. ~~Ludhiana~~ Barnala
3. Name of Sample Collecting Officer : Er. Vicky Bansal, EE, Er. Manmohit Kumar, AEE, Mr. Paramjeet Singh, JSO
4. Date of Sample Collection : 13.12.2024
5. Date of sample receiving in Lab: 14.12.2024
6. Test Method: As per Relevant parts of IS:11255

Results:

Sr. No.	Point of Sample Collection	Parameter	Results	Prescribed Standards
1.	Porthole on Stack after APCD (Boiler @80TPH)	Particulate matter at 12% CO_2	35 mg/Nm^3	50 mg/Nm^3
2.	Porthole on Stack after APCD (Boiler @15TPH)	Particulate matter at 12% CO_2	111 mg/Nm^3	150 mg/Nm^3
3.	Porthole on Stack after APCD (Thermopack)	Particulate matter at 12% CO_2	83 mg/Nm^3	500 mg/Nm^3

Note-If any stringent limits/specific standards have been prescribed by MoEF & CC, CPCB and PPCB, then the same shall prevail subject to clarification from the concerned Regional office.

---End of Report---

Assistant Scientific Officer,
Zonal Lab, Ludhiana

Ends. No. 2672-73 **Dated** 18-12-2024

A copy of the above is forwarded to the following for information and necessary action please along with data sheet:-

1. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal Office-2, Ludhiana
2. The Environmental Engineer, Punjab Pollution Control Board, Regional Office-Moga, Barnala.

Scientific Officer,
Zonal Lab, Ludhiana

Annexure No. 03

Environ Tech Laboratories

CPCB Recognized under EPA, 1986; ISO 9001:2015; OHSAS ISO 45001:2018

Plot No. C-101, Industrial Area, Phase -VII, Sector-73, Mohali, Punjab- 160059
Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TC-5879

TEST REPORT

IOL Chemical & Pharmaceuticals Limited
Village & Post Office-Handiya,Fatehgarh Chhanna Road Barnala, Punjab-148101

Customer Ref. Number	PO. No.4900003568,Date.20/12/2024	Report No.	ETL/02012025/4280
Sample Code given by Customer	Not Mentioned	Report Date.	02.01.2025
Type of Sample	Waste Water	ULR No.	TC587924000005152F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/E/28122024/4280
Quantity	2.00 LTR	Date of Sampling	27.12.2024
Sampling Location	ETP Outlet(Permeate)	Date of Sample Receipt	28.12.2024
Sample Collected By	Mr. K.K. Mishra & Team	Date of Test Performance	28.12.2024 - 02.01.2025
Sampling Procedure	As per lab SOP	Packing Mode	Plastic Bottle & Glass Bottle

Discipline: Chemical **Group: Pollution & Environment**

Sample Description: Clear and Colourless Liquid

S.No.	Parameters	Results	General Standards for Discharge of Environmental Pollutants			Test method
			Inland surface Water	Public Sewers	Land for Irrigation	
1	pH @ 25°C	7.00	5.5 – 9.0	5.5 – 9.0	5.5 – 9.0	IS 3025(P-11) 2022; APHA 23rd Edition:4500-H B
2	Total Suspended Solids, mg/L	BDL (DL = 1.00)	100	600	200	IS 3025(P-17) 2022; APHA 23rd Edition:2540 D
3	Total Dissolved Solid,mg/L	840	--	--	--	IS 3025(P-16) 2023; APHA 23rd Edition:2540C
4	Biochemical Oxygen Demand (3 days @27°C), mg/L	BDL (DL = 2.00)	30	350	100	IS 3025 (P-44) 2023; APHA 23rd Edition :5220 B
5	Chemical Oxygen Demand, mg/L	08	250	--	--	IS 3025(P-58) 2023; APHA 23rd Edition:5220B
6	Oil and Greases, mg/L	BDL (DL = 5.00)	10	20	10	IS 3025(P-39) 2021; APHA 23rd Edition:5520 B

END OF REPORT

Environ Tech Laboratories ETL Mohali

(Authorized Signatory)
Technical Manager-I
Environ Tech Laboratories

Note: BDL: Denotes Below Detection Limit DL: Denotes Detection Limit

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.

Environ Tech Laboratories

CPCB Recognized under EPA, 1986; ISO 9001:2015; OHSAS ISO 45001:2018

Plot No. C-101, Industrial Area, Phase -VII, Sector-73, Mohali, Punjab- 160059
Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TC-5879

TEST REPORT

IOL Chemicals & Pharmaceuticals Ltd
Village & Post Office-Handiya,
Fatehgarh Chhanna Road, Barnala, Punjab-148101

Customer Ref. Number	4900003054	Report No.	ETL/24092024/2749
Sample Code given by Customer	N.M	Report Date.	24.09.2024
Type of Sample	Waste Water	ULR No.	TC587924000003752F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/E/16092024/2749
Quantity	2.00 LTR	Date of Sampling	14.09.2024
Sampling Location	ETP Outlet	Date of Sample Receipt	16.09.2024
Sample Collected By	K.K. Mishra & Team	Date of Test Performance	17.09.2024 - 24.09.2024
Sampling Procedure	As Per LAB SOP	Packing Mode	Plastic bottle and Glass bottle

Discipline: Chemical **Group: Pollution & Environment**

Sample Description: Clear and Colourless Liquid

PART A

S.No.	Parameters	Results	General Standards for Discharge of Environmental Pollutants			Test method
			Inland surface Water	Public Sewers	Land for Irrigation	
1	pH @ 25°C	7.2	5.5 – 9.0	5.5 – 9.0	5.5 – 9.0	IS 3025(P-11) 2022; APHA 23rd Edition:4500-H B
2	Total Suspended Solids, mg/L	05	100	600	200	IS 3025(P-17) 2022; APHA 23rd Edition:2540 D
3	Total Dissolved Solid,mg/L	895	--	--	--	IS 3025(P-16) 2023; APHA 23rd Edition:2540C
4	Biochemical Oxygen Demand (3 days @27°C), mg/L	BDL	30	350	100	IS 3025 (P-44) 2023; APHA 23rd Edition :5220 B
5	Chemical Oxygen Demand, mg/L	04	250	--	--	IS 3025(P-58) 2023; APHA 23rd Edition:5220B
6	Oil and Greases, mg/L	BDL	10	20	10	IS 3025(P-39) 2021; APHA 23rd Edition:5520 B

END OF REPORT

(Authorized Signatory)
Technical Manager-1
Environ Tech Laboratories

Note: BDL: Denotes Below Detection Limit DL: Denotes Detection Limit
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3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

Annexure No. - 04

Environ Tech Laboratories

CPCB Recognized under EPA, 1986; ISO 9001:2015; OHSAS ISO 45001:2018

Plot No. C-101, Industrial Area, Phase -VII, Sector-73, Mohali, Punjab- 160059
Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TC-5879

TEST REPORT

IOL Chemical & Pharmaceuticals Limited
Village & Post Office-Handiya,Fatehgarh Chhanna Road Barnala, Punjab-148101

Customer Ref. Number	Not Mentioned	Report No.	ETL/30012025/0258
Sample Code given by Customer	Not Mentioned	Report Date.	30.01.2025
Type of Sample	Ground Water	ULR No.	TC587925000000239F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/27012025/0258
Quantity	2.25 LTR	Date of Sampling	24.01.2025
Sampling Location	Borewell No-1	Date of Sample Receipt	27.01.2025
Sample Collected By	Mr. K.K. Mishra & Team	Date of Test Performance	27.01.2025 - 30.01.2025
Sampling Procedure	As per lab SOP	Packing Mode	Plastic Bottle & Glass Bottle

Discipline: Chemical **Group: Water**

Sample Description: Clear & colourless liquid

PART A

S.No.	Parameters	Results	Limits of IS: 10500 - 2012		Test method
			Requirement (Acceptable limit)	Permissible limit in absence of alternate source	
1	Colour (Hazen)	BDL (DL = 5)	5	15	IS 3025(P-4) 2021 ; APHA 24th Edition:2120B 2023
2	Odour	Agreeable	Agreeable	Agreeable	APHA 24th Edition:2150 B 2023
3	pH @ 25°C	8.18	6.5 – 8.5	No relaxation	IS 3025(P-11) 2022; APHA 24th Edition:4500 2023
4	Taste	Agreeable	Agreeable	Agreeable	IS 3025(P-8) 2023
5	Turbidity	BDL (DL = 1.00)	Max 1 NTU	Max 5 NTU	IS 3025 (P -10) 2023; APHA 24th Edition :2130B 2023
6	Total Dissolved Solids (mg/l)	496	Max 500	Max 2000	IS 3025 (P-16) 2023; APHA 24th Edition:2540 C 2023
7	Ammonical Nitrogen as N (mg/l)	BDL (DL = 0.50)	Max 0.5	No relaxation	IS 3025 (P-34) 1988; APHA 24th Edition:4500-NH3 C 2023
8	Calcium (as Ca) (mg/l)	30	Max 75	Max 200	IS 3025(P-40) 1991 ; APHA 24th Edition 3500Ca B 2023
9	Chloramines as Cl2 (mg/l)	BDL (DL = 0.10)	Max 4	No relaxation	APHA 24th Edition:4500 G 2023
10	Chloride as Cl (mg/l)	72.8	Max 250	Max 1000	IS 3025(P-32) 1988; APHA 24th Edition:4500 Cl B 2023
11	Fluoride as F (mg/l)	0.82	Max 1.0	Max 1.5	APHA 24th Edition:4500 F-D 2023
12	Free Residual Chlorine (mg/l)	BDL (DL = 0.10)	Max 0.2	Max 1	IS 3025 (P-26) 2021; APHA 24th Edition :4500 Cl B 2023
13	Magnesium (as Mg) (mg/l)	23.1	Max 30	Max 100	IS 3025 (Part-46) 2023; APHA 24th Edition :3500Mg B 2023
14	Nitrate (as NO3) (mg/l)	BDL (DL = 0.10)	Max 45	No relaxation	IS 3025 (P-34) 1988; APHA 24th Edition:4500 NO3 B 2023
15	Phenolic Compunds (as C6H5OH) (mg/l)	BDL	Max 0.001	Max 0.002	APHA 24th Edition Chloroform Extraction Method, 5530 C 2023

Environ Tech Laboratories ETL

Authorized Signatory:-
Technical Manager-I
Environ Tech Laboratories

Note: ND: Not Detected BDL: Denotes Below Detection Limit DL: Denotes Detection Limit
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3. The sample will be destroyed after fifteen days from the date of issue of test report unless otherwise specified.

Email : environtechlab72@yahoo.com I Website : www.environtechlab.com

Environ Tech Laboratories

CPCB Recognized under EPA, 1986; ISO 9001:2015; OHSAS ISO 45001:2018

Plot No. C-101, Industrial Area, Phase -VII, Sector-73, Mohali, Punjab- 160059
Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TC-5879

TEST REPORT

IOL Chemical & Pharmaceuticals Limited
Village & Post Office-Handiya,Fatehgarh Chhanna Road Barnala, Punjab-148101

16	Sulphate (as SO4) (mg/l)	42	Max 200	Max 400	IS 3025 (P-24) Sec 1:2022; APHA 24th Edition :4500 SO42 E 2023
17	Sulphide as S (mg/l)	BDL (DL = 0.50)	Max 0.05	No relaxation	IS 3025(P-29) 2022 ; APHA 24th Edition:4500 S F 2023
18	Total Alkalinity (as CaCO3) (mg/l)	210	Max 200	Max 600	IS 3025(P-23) 2023; APHA 24th Edition:2320 B 2023
19	Total Hardness(as CaCO3) (mg/l)	170	Max 200	Max 600	IS 3025 (P-21) 2009; APHA 24th Edition :2340 C 2023
20	Sodium (as Na) (mg/l)	80	--	--	IS 3025 (P-45) 1993; APHA 24th Edition :3500 Na B 2023
21	Potassium (as K) (mg/l)	4.45	--	--	IS 3025 (P-45) 1993; APHA 24th Edition :3500 K B 2023

Environ Tech Laboratories ETL Mohali

Authorized Signatory:-
Technical Manager-1
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TC-5879

TEST REPORT

IOL Chemical & Pharmaceuticals Limited
Village & Post Office-Handiya,Fatehgarh Chhanna Road Barnala, Punjab-148101

Customer Ref. Number	Not Mentioned	Report No.	ETL/30012025/0258
Sample Code given by Customer	Not Mentioned	Report Date.	30.01.2025
Type of Sample	Ground Water	ULR No.	TC587925000000239F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/27012025/0258
Quantity	2.25 LTR	Date of Sampling	24.01.2025
Sampling Location	Borewell No-1	Date of Sample Receipt	27.01.2025
Sample Collected By	Mr. K.K. Mishra & Team	Date of Test Performance	27.01.2025 - 30.01.2025
Sampling Procedure	As per lab SOP	Packing Mode	Plastic Bottle & Glass Bottle

Discipline: Biological **Group: Water**

Sample Description: Clear & colourless liquid

PART B

S.No.	Parameters	Results	Requirement as per IS 10500:2012 (Amednment No. 04-Nov-2021)	Test method
1	E. coli	Not Detected	shall not be detectable in 100ml	IS 15185:2016
2	Total coliform	Not Detected	shall not be detectable in 100 ml	IS 15185:2016

END OF REPORT

Environ Tech Laboratories ETL Mohali

Authorized Signatory:-
Technical Manager-I
Environ Tech Laboratories

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Mob. 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TEST REPORT

IOL Chemical & Pharmaceuticals Limited
Village & Post Office-Handiya,Fatehgarh Chhanna Road Barnala, Punjab-148101

Customer Ref. Number	Not Mentioned	Report No.	ETL/30012025/0258
Sample Code given by Customer	Not Mentioned	Report Date.	30.01.2025
Type of Sample	Ground Water	ULR No.	Not Applicable
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/27012025/0258
Quantity	2.25 LTR	Date of Sampling	24.01.2025
Sampling Location	Borewell No-1	Date of Sample Receipt	27.01.2025
Sample Collected By	Mr. K.K. Mishra & Team	Date of Test Performance	27.01.2025 - 30.01.2025
Sampling Procedure	As per lab SOP	Packing Mode	Plastic Bottle & Glass Bottle

Discipline: Chemical **Group: Residues and contaminants in water**

Sample Description: Clear & colourless liquid

PART C

S.No.	Parameters	Results	Limits of IS: 10500 - 2012		Test method
			Requirement (Acceptable limit)	Permissible limit in absence of alternate source	
1	Manganese (as Mn)	BDL (DL = 0.02)	Max 0.1 mg/l	Max 0.3 mg/l	APHA 24th Edition 2023-3111B
2	Copper (as Cu)	BDL (DL = 0.02)	Max 0.05 mg/l	Max 1.5 mg/l	APHA 24th Edition 2023-3111 B
3	Iron (as Fe)	BDL (DL = 0.10)	Max 1.0 mg/l	No relaxation	APHA 24th Edition 3111B 2023
4	Zinc (as Zn)	BDL (DL = 0.05)	Max 5 mg/l	Max 15 mg/l	APHA 24th Edition 2023-3111B
5	Cadmium (as Cd)	BDL (DL = 0.02)	Max 0.003 mg/l	No relaxation	APHA 24th Edition 2023-3111B
6	Lead (as Pb)	BDL(DL=0.01)	Max 0.01 mg/l	No relaxation	APHA 24th Edition 2023-3111B
7	Mercury (as Hg)	BDL (DL = 0.001)	Max 0.001 mg/l	No relaxation	APHA 24th Edition 2023 3114B
8	Arsenic (as As)	BDL (DL = 0.005)	Max 0.01 mg/l	No relaxation	APHA 24th Edition 2023-3114B
9	Total Chromium (as Cr)	BDL (DL = 0.04)	Max 0.05 mg/l	No relaxation	APHA 24th Edition 2023-3113B

END OF REPORT

Environ Tech Laboratories ETL Mohali

Authorized Signatory:-
Technical Manager-I
Environ Tech Laboratories

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Mob 9464000081, 9417220081, 9417210081, (O) 94630-00081, 0172-4630081
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TC-5879

TEST REPORT

IOL Chemical & Pharmaceuticals Limited
Village & Post Office-Handiya,Fatehgarh Chhanna Road Barnala, Punjab-148101

Customer Ref. Number	Not Mentioned	Report No.	ETL/30012025/0259
Sample Code given by Customer	Not Mentioned	Report Date.	30.01.2025
Type of Sample	Ground Water	ULR No.	TC587925000000240F
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/27012025/0259
Quantity	2.25 LTR	Date of Sampling	24.01.2025
Sampling Location	Borewell No-2	Date of Sample Receipt	27.01.2025
Sample Collected By	Mr. K.K. Mishra & Team	Date of Test Performance	27.01.2025 - 30.01.2025
Sampling Procedure	As per lab SOP	Packing Mode	Plastic Bottle & Glass Bottle

Discipline: Chemical **Group: Water**

Sample Description: Clear and Colourless Liquid

PART A

S.No.	Parameters	Results	Limits of IS: 10500 - 2012		Test method
			Requirement (Acceptable limit)	Permissible limit in absence of alternate source	
1	Colour (Hazen)	BDL (DL = 5)	5	15	IS 3025(P-4) 2021; APHA 23rd Edition:2120B
2	Odour	Agreeable	Agreeable	Agreeable	APHA 23rd Edition:2150 B
3	pH @ 25°C	8.29	6.5 – 8.5	No relaxation	IS 3025(P-11) 2022; APHA 23rd Edition:4500
4	Taste	Agreeable	Agreeable	Agreeable	IS 3025(P-8) 2023
5	Turbidity	BDL (DL = 1.00)	Max 1 NTU	Max 5 NTU	IS 3025 (P -10) 2023; APHA23rd Edition :2130B
6	Total Dissolved Solids (mg/l)	452	Max 500	Max 2000	IS 3025 (P-16) 2023; APHA 23rd Edition:2540 C
7	Ammonical Nitrogen as N (mg/l)	BDL (DL = 0.50)	Max 0.5	No relaxation	IS 3025 (P-34) 1988; APHA 23rd Edition:4500-NH3 C
8	Calcium (as Ca) (mg/l)	40	Max 75	Max 200	IS 3025(P-40) 1991; APHA 23rd Edition 3500Ca B
9	Chloramines as Cl2 (mg/l)	BDL (DL = 0.10)	Max 4	No relaxation	APHA 23rd Edition:4500 G
10	Chloride as Cl (mg/l)	72.8	Max 250	Max 1000	IS 3025(P-32) 1988; APHA 23rd Edition:4500 Cl B
11	Fluoride as F (mg/l)	0.6	Max 1.0	Max 1.5	APHA 23rd Edition:4500 F-D
12	Free Residual Chlorine (mg/l)	BDL (DL = 0.10)	Max 0.2	Max 1	IS 3025 (P-26) 2021; APHA 23rd Edition :4500 Cl B
13	Magnesium (as Mg) (mg/l)	4.9	Max 30	Max 100	IS 3025 (Part-46) 2023; APHA23rd Edition :3500Mg B
14	Nitrate (as NO3) (mg/l)	0.7	Max 45	No relaxation	IS 3025 (P-34) 1988; APHA23rd Edition:4500 NO3 B
15	Phenolic Compunds (as C6H5OH) (mg/l)	BDL	Max 0.001	Max 0.002	APHA 23rd Edition Chloroform Extraction Method, 5530 C

Environ Tech Laboratories ETL Mohali

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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P

TC-5879

TEST REPORT

IOL Chemical & Pharmaceuticals Limited
Village & Post Office-Handiya,Fatehgarh Chhanna Road Barnala, Punjab-148101

16	Sulphate (as SO4) (mg/l)	45	Max 200	Max 400	IS 3025 (P-24) Sec 1:2022; APHA 23rd Edition :4500 SO42 E
17	Sulphide as S (mg/l)	BDL (DL = 0.50)	Max 0.05	No relaxation	IS 3025(P-29) 2022; APHA 23rd Edition:4500 S F
18	Total Alkalinity (as CaCO3) (mg/l)	220.5	Max 200	Max 600	IS 3025(P-23) 2023; APHA 23rd Edition:2320 B
19	Total Hardness(as CaCO3) (mg/l)	120	Max 200	Max 600	IS 3025 (P-21) 2009; APHA 23rd Edition :2340 C
20	Sodium (as Na) (mg/l)	100	--	--	IS 3025 (P-45) 1993; APHA 23rd Edition :3500 Na B
21	Potassium (as K) (mg/l)	4.5	--	--	IS 3025 (P-45) 1993; APHA 23rd Edition :3500 K B

END OF REPORT

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TEST REPORT

IOL Chemical & Pharmaceuticals Limited
Village & Post Office-Handiya,Fatehgarh Chhanna Road Barnala, Punjab-148101

Customer Ref. Number	Not Mentioned	Report No.	ETL/30012025/0259
Sample Code given by Customer	Not Mentioned	Report Date.	30.01.2025
Type of Sample	Ground Water	ULR No.	Not Applicable
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/27012025/0259
Quantity	2.25 LTR	Date of Sampling	24.01.2025
Sampling Location	Borewell No-2	Date of Sample Receipt	27.01.2025
Sample Collected By	Mr. K.K. Mishra & Team	Date of Test Performance	27.01.2025 - 30.01.2025
Sampling Procedure	As per lab SOP	Packing Mode	Plastic Bottle & Glass Bottle

Discipline: Chemical **Group: Residues and contaminants in water**

Sample Description: Clear and Colourless Liquid

PART C

S.No.	Parameters	Results	Limits of IS: 10500 - 2012		Test method
			Requirement (Acceptable limit)	Permissible limit in absence of alternate source	
1	Manganese (as Mn)	BDL (DL = 0.02)	Max 0.1 mg/l	Max 0.3 mg/l	APHA 23rd Edition 2017-3111B
2	Copper (as Cu)	BDL (DL = 0.02)	Max 0.05 mg/l	Max 1.5 mg/l	APHA 23rd Edition 2017-3111 B
3	Iron (as Fe)	0.16	Max 1.0 mg/l	No relaxation	APHA 23rdEdition 3111B
4	Zinc (as Zn)	1.0	Max 5 mg/l	Max 15 mg/l	APHA 23rd Edition 2017-3111B
5	Cadmium (as Cd)	BDL (DL = 0.02)	Max 0.003 mg/l	No relaxation	APHA 23rd Edition 2017-3111B
6	Lead (as Pb)	BDL(DL=0.01)	Max 0.01 mg/l	No relaxation	APHA 23rd Edition 2017-3111B
7	Mercury (as Hg)	BDL (DL = 0.001)	Max 0.001 mg/l	No relaxation	APHA 23rdEdition 2017 3114B
8	Arsenic (as As)	BDL (DL = 0.005)	Max 0.01 mg/l	No relaxation	APHA 23rd Edition 2017-3114B
9	Total Chromium (as Cr)	BDL (DL = 0.04)	Max 0.05 mg/l	No relaxation	APHA 23rd Edition 2017-3113B

Environ Tech Laboratories ETL Mohali

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Technical Manager-I
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TEST REPORT

IOL Chemical & Pharmaceuticals Limited
Village & Post Office-Handiya,Fatehgarh Chhanna Road Barnala, Punjab-148101

Customer Ref. Number	Not Mentioned	Report No.	ETL/30012025/0259
Sample Code given by Customer	Not Mentioned	Report Date.	30.01.2025
Type of Sample	Ground Water	ULR No.	Not Applicable
Sampling Condition	Satisfactory	Sample Reg No.	ETL/W/27012025/0259
Quantity	2.25 LTR	Date of Sampling	24.01.2025
Sampling Location	Borewell No-2	Date of Sample Receipt	27.01.2025
Sample Collected By	Mr. K.K. Mishra & Team	Date of Test Performance	27.01.2025 - 30.01.2025
Sampling Procedure	As per lab SOP	Packing Mode	Plastic Bottle & Glass Bottle

Discipline: Biological **Group: Water**

Sample Description: Clear and Colourless Liquid

PART B

S.No.	Parameters	Results	Requirement as per IS 10500:2012 (Amednment No. 04-Nov-2021)	Test method
1	E. coli	Not Detected	shall not be detectable in 100ml	IS 15185:2016
2	Total coliform	Not Detected	shall not be detectable in 100 ml	IS 15185:2016

END OF REPORT

Environ Tech Laboratories ETL Mohali

Authorized Signatory:-
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Environ Tech Laboratories

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Annexure No. - 05.

Punjab Pollution Control Board

Zonal Laboratory, E-648-B, 2nd Floor,
Phase-5, Focal Point, Ludhiana.
Ph 0161-2676350
E-mail: zlabppcbldh@gmail.com

File it up
Harmanpreet Singh
08/05/2025

ਸ.ਫ. ਡਿਸੀ. 1-42 / ਜ਼.ਰ. ਡਿਸੀ. / ਮਿਠੀ ਸਹਾ / ਜ਼ੂ.ਸਹਾ.

Water Analysis Report

ਨਵੀਂ ਡਾਕ

1. Laboratory Sample no.: E 307/Zonal Lab/2025
2. Name of Industry : M/s IOL Chemical & Pharmaceuticals Ltd., Vill. Fatehgarh Channa, Distt. Barnala ;
3. Name of Sample Collecting Officer : Er. Vicky Bansal, Environmental Engineer; Er. Manmohit Kumar, Assistant Environmental Engineer
4. Type of Sample : Grab
5. Date of Sample Collection : 20.03.2025
6. Date of Receiving: 20.03.2025
7. Method Followed: IS 3025/ methods of APHA

ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਰੋਕਥਾਮ ਬੋਰਡ
ਡਾਇਰੀ ਨੰ: 564
ਮਿਤੀ 06.05.2025
ਖੇਤਰੀ ਦਫ਼ਤਰ, ਬਰਨਾਲਾ

Results:

Sr. No.	Parameters	Main Block			North Block		
		Inlet of STP	Outlet of STP	Aeration Tank	Inlet of STP	Outlet of STP	Aeration Tank
9.	pH	6.9	7.3	-	7.2	7.4	-
10.	Total Suspended Solids (mg/l)	255	BDL	-	1310	24	-
11.	Total Dissolved Solids (mg/l)g	523	706	-	1250	849	-
12.	Chemical Oxygen demand (mg/l)	511	23	-	1699	29	-
13.	Bio-chemical Oxygen Demand (mg/l)	230	6	-	810	7	-
14.	Oil & Grease (mg/l)	15.2	5.6	-	22	4.2	-
15.	Mixed Liquid Suspended Solids (mg/l)	-	-	6230	-	-	4250
16.	Mixed Liquid Volatile Suspended Solids (mg/l)	-	-	4990	-	-	2680

Remarks :-

1. **No specific standards are prescribed as per EPA, However if any stringent/other standards have been imposed by the board, the same shall prevail.**

28-3-25

Junior Scientific Officer,
Zonal Lab, Ludhiana

Ends. No. 759-61 **Dated** 01-04-2025

A copy of the above is forwarded to the following for information and necessary action please along with data sheet:-

1. The Chief Environmental Engineer, Punjab Pollution Control Board, Ludhiana.
2. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal Office-2, Ludhiana.
3. The Environmental Engineer, Punjab Pollution Control Board, Regional Office-Moga at Barnala

Scientific Officer
Ho Lab Ludhiana 28/3/25

Punjab Pollution Control Board

Zonal Laboratory, E-648-B, 2nd Floor,
Phase-5, Focal Point, Ludhiana.

Ph: 0161-2676350 E-mail: dsbpcbldh@gmail.com

Water Analysis Report

1. Laboratory Sample no.: E 206/Zonal Lab/2024
2. Name of Industry : M/s IOL Chemical & Pharmaceuticals Ltd., Vill. Fatehgarh Channa, Distt. Barnala
3. Name of Sample Collecting Officer : Er. Vicky Bansal, EE; Er. Manmohit Kumar, AEE
4. Type of Sample : Grab
5. Date of Sample Collection : 13.12.2024
6. Date of Receiving: 14.12.2024
7. Method Followed IS 3025/ methods of APHA

Results:

Sr. No.	Parameters	Main Block			North Block		
		Inlet of STP	Outlet of STP	Aeration Tank	Inlet of STP	Outlet of STP	Aeration Tank
1.	pH	6.7	6.7	-	6.9	6.3	-
2.	Total Suspended Solids (mg/l)	162	27	-	196	42	-
3.	Total Dissolved Solids (mg/l)g	740	572	-	905	1090	-
4.	Chemical Oxygen demand (mg/l)	445	45	-	859	93	-
5.	Bio-chemical Oxygen Demand (mg/l)	160	12	-	335	23	-
6.	Oil & Grease (mg/l)	18.4	8.8	-	19.3	7.9	-
7.	Mixed Liquid Suspended Solids (mg/l)	-	-	8580	-	-	3880
8.	Mixed Liquid Volatile Suspended Solids (mg/l)	-	-	7225	-	-	2706

Remarks :-

1. **No specific standards are prescribed as per EPA, However if any stringent/other standards have been imposed by the board, the same shall prevail.**

Junior Scientific Officer,
Zonal Lab, Ludhiana

Ends. No. 2753-55 **Dated** 26-12-2024

A copy of the above is forwarded to the following for information and necessary action please along with data sheet:-

1. The Chief Environmental Engineer, Punjab Pollution Control Board, Ludhiana.
2. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal Office-2, Ludhiana.
3. The Environmental Engineer, Punjab Pollution Control Board, Regional Office-Moga at Barnala

Scientific Officer,
Zonal Lab, Ludhiana