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BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

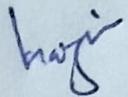
M.A No. 23/2024
in
Execution Application No. 01/2023

IN THE MATTER OF:-

Original Application No. 673/2018 News item published in "The Hindu" authored by Shri Jacob Koshy Titled as "More river stretches are now critically polluted: CPCB"

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2.	Annexure-I: A copy of Photographs taken during visit dated 10.06.2024.	
3.	Annexure-II: A copy of Site plan of various drains and river Sutlej near Kiratpur Sahib.	
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(Nazimuddin)
Scientist-F

Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar
Delhi-110032

Date: - **01.08.2024**
Place: Delhi

Inspection Report in compliance to the Hon'ble NGT (PB), New Delhi order dated 24.04.2024 in M.A No. 23/2024 In Execution Application No. 01/2023 In Original Application No. 673/2018 News item published in "The Hindu" authored by Shri Jacob Koshy Titled "More river stretches are now critically polluted: CPCB".

1.0 Background:

In this M.A No. 23 / 2024 in Execution Application No. 01/2023 in Original Application No. 673/2018, the matter is related to the pollution of water in River Satluj near Gurudwara Patalpuri Sahib at Kiratpur Sahib, Punjab. In the matter, the Hon'ble NGT (PB) vide order dated 24.04.2024 directed CPCB as under:

*3. The reply dated 17.02.2024 has been filed by the Chief Executive Officer, Punjab Water Supply and Sewerage Board on behalf of the Chief Secretary, Punjab stating that the work for the construction of 2 MLD STP at Shri Kiratpur Sahib has been allotted to M/s. SAPL-EGEL JV, Gurugram and the completion period is upto 21.11.2024. Hence, by November 2024, the STP construction will be positively completed. The report also states so-called measures taken for stopping discharge of untreated waste water in river Satluj till the construction of STP. It mentions that waste water after treatment through Bio-Nanotechnology in **Kalyanpuri drain** is diverted into Main Pumping Station (MPS) and pumped from MPS into **Lohund Khud** and the sample analysis report of **Kalyanpuri drain** mentions that the parameters are found to be within limits.*

4. The samples are required to be collected for analysis from Lohund Khud before meeting to River Satluj to ascertain its compliance of prescribed parameters.

5. Hence, we direct the Member Secretary, Central Pollution Control Board (CPCB) to get the sample collected and get the analysis report of the sample from the accredited laboratory and submit the report at least one week before the next date of hearing by e-mail at judicialngt@gov.in preferably in the form of searchable PDF / OCR Support PDF and not in the form of Image PDF.

2.0 Compliance of Order of the Hon'ble NGT dated 24.04.2024

In compliance of the NGT order dated 24.04.2024, a team from Central Pollution Control Board, Regional Directorate, Chandigarh and CPCB Head Office Delhi visited the site on 10.06.2024 and carried out survey of the area and monitoring of Lohund Khud and River Sutlej (before and after meeting the Lohund Khud) to assess the water quality of drain and River Sutlej at Kiratpur Sahib, Punjab. The team collected representative water samples for Physico-chemical and Bacteriological analysis (**Photographs attached as Annexure-I**).

CPCB team also held discussions during site visit with various department representatives including Nagar Panchyat of Shri Kiratpur Sahib, Punjab Pollution Control Board (PPCB), Punjab Water Supply and Sewerage Board (PWSSB). These officials accompanied CPCB team conducted survey of the area and identified the point for sampling of the **Lohund Khud before meeting River Satluj**.

3.0 Details of the Drains:

The Site plan provided by Drainage Department, indicating various drains and river near Kiratpur Sahib is attached as **Annexure-II**.

3.1 Kalyanpur Choe (Drain): This drain is an interstate drain which carries storm water from a village, located at Shivalik foot hills in Himachal Pradesh. At the time of visit, the team found that this drain was dry in upstream section. However, some residential houses (about 40) of the Kiratpur town discharges grey water into this drain. At the time of visit, meager flow of wastewater was observed in the Kalyanpur Choe.

The representatives of Nagar Panchyat of Sri Kiratpur Sahib informed that the Kiratpur drain originates from Kiratpur town and it carries domestic untreated sewage of the Kiratpur town and meets Kalyanpur Choe (Drain) near railway line gate and that combined flow of these two drains is being treated through in-situ bio-Nano technology and it is collected into main pumping station (MPS) of the STP, which is under construction. From the MPS, the flow is diverted into the Lohund Khud (drain) through underground pipeline of about 1.8 km length.

During the visit, CPCB team observed that Kalyanpur Choe (drain) was tapped and diverted into Main Pumping Station (MPS) by using sand bags and no water from Kalyanpur Choe (drain) was being discharged into the downstream Nakkian Khad drain which passes through the Gurudwara Patal Puri Sahib.

3.2 Lohund Khud (drain): It is an interstate natural drain that carries storm water and domestic wastewater of Solan district of Himachal Pradesh, as well as from villages located in Shivalik foothills in Himachal Pradesh and in Punjab area within the catchment. Sri Anandpur Sahib Hydrel channel discharges tail water into Lohund Khud before its passing under the bridge on Ropar to Sri Kiratpur Sahib Road. At the time of visit, meager flow was observed at upstream section of Lohund Khud (drain) before addition of the tail water of Sri Anandpur Sahib Hydrel channel into it.

It was observed that about 2 MLD of treated water of Kalyanpur Choe (drain) is discharged into the Lohund Khud which carries Sri Anandpur Sahib Hydrel channel water from upstream. Thereafter the Lohund Khud meets River Sutlej.

4.0 Observations made by CPCB team on 10.06.2024

1. At the time of visit, in-situ treatment of Kalyanpur Choe (drain) was observed. The dosing was carried out by aquaritin nanotech nutrients using mobile float boat and that was sprayed in the treatment area of the drain. It was informed to CPCB team that about 1.5-

2.0 MLD domestic wastewater flows in the drain. The in-situ treatment of Kalyanpur drain is operated by M/s JS Water Energy Life Co. Pvt Limited Gurugram (Haryana) under control of Nagar Panchyat Sri Kiratpur Sahib.

2. The effluent of Kalyanpur drain after in-situ treatment was found being tapped and diverted into Main Pumping Station (MPS) by using sand bags and the effluent further being discharge into Lohund Khud through underground pipe line of about 1.8 Km.
3. At the time of visit, the civil work of construction of STP of 2 MLD installed capacity for treatment of water coming from Kalyanpur Drain was found under progress. The STP is based on Moving Bed Biofilm Reactor (MBBR) technology. The proposed treatment scheme is comprised of Coarse Screen, Main Pumping station, Grit Chamber, Anoxic tank, MBBR Tank, Clari-tube Settler, Chlorine Contact Tank, Sludge Collection Tank, Sludge Thickener and Screw Press. The treated water of STP will be discharged into Lohund Khud through underground pipe line of about 1.8 km and the completion period of STP is upto 21.11.2024.

5.0 Sampling Locations:

The sampling point finalized after survey for collecting sample from the Lohund Khud before meeting the River Satluj, is indicated as Code D3 in the Site Plan (Annexure-II). The sample was collected from this point (**D3; Lohund Khud before meeting the River Satluj**), in compliance to the orders of Hon'ble National Green Tribunal.

In addition to the above, CPCB team also collected samples from i) Upstream of Lohund Khud before confluence into Sri Anandpur Sahib Hydrel, ii) Upstream of River Sutlej before confluence of Lohund Khud and iii) Downstream of River Sutlej after confluence of Lohund Khud, for reference. The details of the samples along with location and field codes are summarized in **Table 01**.

Table 01: Details of samples collected by CPCB Team

S.No	Sampling Locations	Field Code	Latitude	Longitude
Lohund Khud Drain				
1.	Lohund Khud before meeting River Sutlej	D3	31.17397	76.56523
2.	Lohund Khud before confluence of Sri Anandpur Sahib Hydrel tail water.	D4	31.17512	76.57292
River Sutlej				
3.	River Sutlej before confluence of Lohund Khud drain (at Village Chandpur Bela)	D6	31.19324	76.52803
4	River Sutlej after confluence of Lohund Khud drain (Near Bunga Sahib)	D7	31.50752	76.56233

6.0 Analysis Report:

The results of the analysis of the samples collected by CPCB team and analyzed in CPCB Head Office Laboratory are presented in **Table 02**.

Table 02: Analytical results of the collected samples.

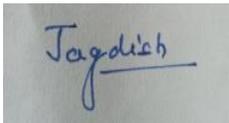
S. No.	Parameters	Sampling Locations (River Sutlej) and Sample Code				
		Lohund Khud before confluence of Shri Anandpur Sahib Hydel tail water (D4)	Lohund Khud before meeting to River Sutlej (D3)	River Sutlej before confluence of Lohund Khud drain (D6)	River Sutlej after confluence of Lohund Khud drain (D7)	Primary Water Quality Criteria for bathing water, MoEF Notification vide G.S.R. 742 (E) dated 25/09/2000.
1.	DO, mg/l	ND	ND	8.4	8.8	≥ 5
2.	pH	8.6	7.5	8.5	8.3	6.5-8.5
3.	COD, mg/l	5.0	10	4	3	
4.	BOD, mg/l	BDL	4	1.2	0.7	< 3
5.	TSS, mg/l	22	44	20	BDL	
6.	TDS, mg/l	300	280	186	176	
7.	Conductivity, $\mu\text{S}/\text{cm}$	386	634	276	255	
8.	Chloride, mg/l	23	30	8	10	
9.	Phosphate-P, mg/l	BDL	0.78	BDL	BDL	
10.	NO ₂ -N, mg/l	0.06	0.09	0.01	0.01	
11.	NO ₃ -N, mg/l	2.01	0.78	0.6	BDL	
12.	NH ₃ -N, mg/l	2	10	0.44	0.98	
13.	SO ₄ , mg/l	36	95	49	46	
14.	Colour, CU	ND	ND	BDL	BDL	
15.	TKN, mg/l	7	14	-	-	
16.	SAR	2	0.8	0.34	0.29	
17.	Fecal Coliform, MPN/100 ml	24×10^4	2×10^6	200	49×10^2	500

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18.	Fecal Streptococci, MPN/100 ml	-	-	33	310	100
19.	Total Coliform, MPN/100 ml	24×10^4	46×10^6	33×10^2	92×10^3	

Note: BDL- Below Detection Limit, ND- Note Done

Names and Signatures of CPCB Team:

S.No	Name & Designation	Regional Directorate/Division	Signature
1.	Sh. Jagdish Prasad Meena, Scientist-'D'	Central Pollution Control Board, Regional Directorate, Chandigarh	
2.	Sh. Ritik Bhagat, Scientist-'B'	WQM-I, Central Pollution Control Board, Head Office Delhi	
3.	Sh. Pradeep Kumar, Junior Laboratory Assistant JLA,	Central Pollution Control Board, Regional Directorate, Chandigarh	
4.	Sh. Jagdeep Kumar, Project Assistant	WQM-I, Central Pollution Control Board, Head. Office Delhi	

Photographs taken during visit on 10.06.2024.

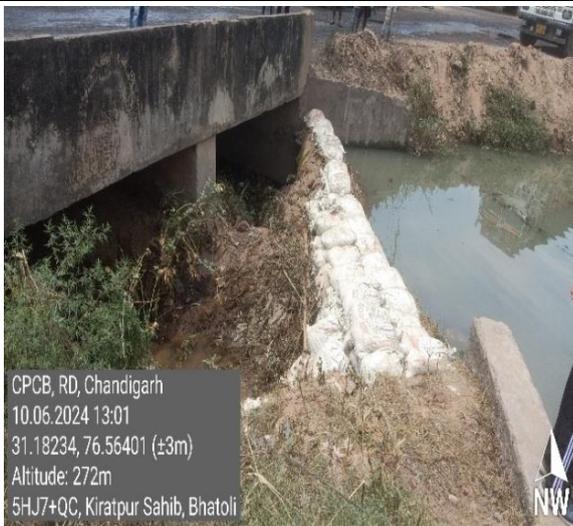
 <p>CPCB, RD, Chandigarh 10.06.2024 11:33 30.97501, 76.52682 (±14m) Altitude: 256m Giani Zail Singh Nagar, Rupnagar</p>	 <p>CPCB, RD, Chandigarh Kalyanpuri drain in dry condition upper HDFC bank 10.06.2024 14:01 31.18458, 76.57104 (±8m) Altitude: 275m 5HMC+VG5, NH205, Kiratpur Sahib, Jeowal</p>
<p>Meeting with PPCB, Sewerage board & Drainage department at PPCB Office, Rupnagar</p>	<p>Dry condition of Kalyanpuri drain at Up stream</p>
 <p>CPCB, RD, Chandigarh Kalyanpuri drain upstream aquaduct near HDFC bank 10.06.2024 13:57 31.18425, 76.57005 (±22m) Altitude: 272m 5HMC+M24, NH205, Kiratpur Sahib, Bhatoli</p>	 <p>CPCB, RD, Chandigarh Kalyanpuri drain near aquaduct syphon 10.06.2024 13:45 31.18374, 76.5658 (±8m) Altitude: 272m SH22, Kiratpur Sahib, Bhatoli</p>
<p>View of Kalyanpuri drain Near HDFC bank office before aquaduct /syphon</p>	<p>View of Kalyanpuri drain after 20 meter Aquaduct / syphon</p>
 <p>CPCB, RD, Chandigarh Kiratpur drain before meeting kalyanpuri drain 10.06.2024 13:29 31.18392, 76.5653 (±7m) Altitude: 272m NEAR BPCL PETROL PUMP, MAIN ROAD, 5HM8+F6R, Kiratpur Sahib, Bhatoli</p>	 <p>CPCB, RD, Chandigarh Confluence point of kiratpur & kalyanpuri drain 10.06.2024 13:33 31.18304, 76.564 (±9m) Altitude: 268m 5HJ7+QC, Kiratpur Sahib, Bhatoli</p>
<p>View of Kiratpur drain before meeting in Kalyanpuri drain</p>	<p>View of meeting of Kiratpur drain in Kalyanpur drain</p>



In Situ treatment zone near the MPS in Kalyanpur drain



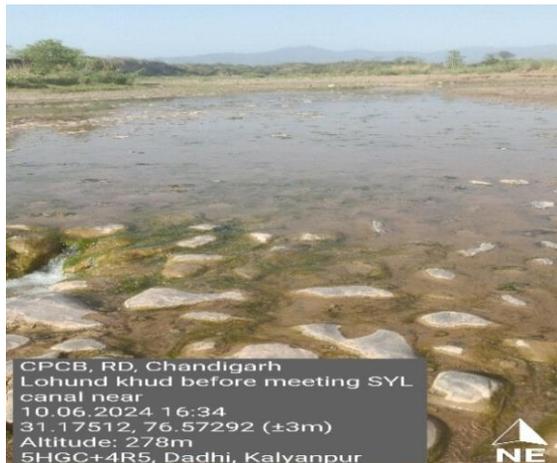
View of Consortium Spray in treatment Zone of Kalyanpur drain by spraying pump



Plugged view of Kalyanpur drain near the MPS (Main Pumping Station)



Inlet of MPS after treatment



View of Lohund Khud drain before meeting in Anandpur Hydel Channel



View of meeting point of Lohund khud drain in Anandpur Hydel Channel



Treated outfall of Kalyanpur drain through MPS into Lohund Khud



View of mixing of Kalyanpur outlet into Lohund Khud



View of Lohund Khud before meeting to River Sutlej



View of taking sample from Lohund Khud before meeting into River Sutlej

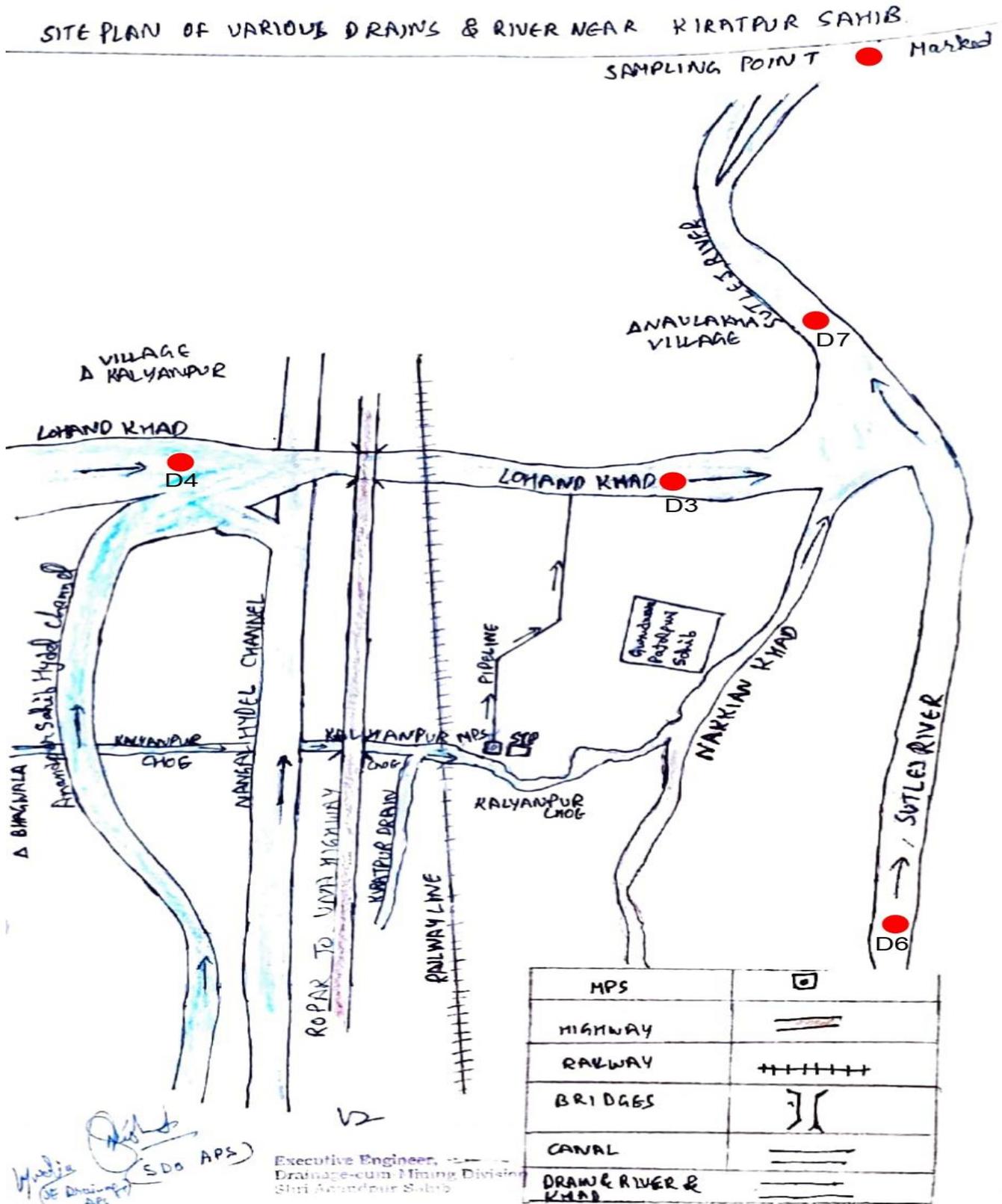


Upstream of River Sutlej before confluence of Lohund Khud drain (at Village Chandpur Bela)



Downstream of River Sutlej after confluence of Lohund Khud drain (Near Bunga Sahib)

Site Plan of various drains and river Sutlej near Kiratpur Sahib



Note:

1. The site map is not to scale.
2. River Sutlej is flowing from North to South direction.

Item No. 14

Court No. 1

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

M.A No. 23/2024
IN
Execution Application No. 01/2023
IN
Original Application No. 673/2018

News item published in "The Hindu" authored by Shri Jacob Koshy
Titled
"More river stretches are now critically polluted: CPCB"

Sunaina Applicant

Date of hearing: 24.04.2024

**CORAM: HON'BLE MR. JUSTICE PRAKASH SHRIVASTAVA, CHAIRPERSON
HON'BLE MR. JUSTICE SUDHIR AGARWAL, JUDICIAL MEMBER
HON'BLE DR. A. SENTHIL VEL, EXPERT MEMBER**

Respondent: Mr. Ankit Midha, Adv. for the State of Punjab (Through VC)

ORDER

1. In this MA, the issue under examination is in respect of pollution of water in River Satluj near Gurudwara Patalpuri Sahib at Kartarpur Sahib, Punjab.

2. Earlier, the orders were issued in OA No. 593/2017, EA No. 1/2023, MA No. 86/2023, yet there was no improvement and no effective and satisfactory progress was found. Hence, the Tribunal by order dated 13.02.2024 had issued notice to the Chief Secretary, State of Punjab.

3. The reply dated 17.02.2024 has been filed by the Chief Executive Officer, Punjab Water Supply and Sewerage Board on behalf of the Chief Secretary, Punjab stating that the work for the construction of 2 MLD STP at Shri Kiratpur Sahib has been allotted to M/s. SAPL-EGEL JV, Gurugram and the completion period is upto 21.11.2024. Hence, by November 2024, the STP construction will be positively completed. The report also states so-called measures taken for stopping discharge of untreated waste water in river Satluj till the construction of STP. It

mentions that waste water after treatment through Bio-Nanotechnology in Kalyanpuri drain is diverted into Main Pumping Station (MPS) and pumped from MPS into Lohund Khud and the sample analysis report of Kalyanpuri drain mentions that the parameters are found to be within limits.

4. The samples are required to be collected for analysis from Lohund Khud before meeting to River Satluj to ascertain its compliance of prescribed parameters.

5. Hence, we direct the Member Secretary, Central Pollution Control Board (CPCB) to get the sample collected and get the analysis report of the sample from the accredited laboratory and submit the report at least one week before the next date of hearing by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/OCR Support PDF and not in the form of Image PDF.

6. This Chief Secretary, Punjab will also file a fresh report at least one week before the next date of hearing disclosing the progress of construction of STP.

7. List on 05.08.2024.

8. Let a copy of this order be forwarded to the Member Secretary, CPCB by e-mail for compliance.

Prakash Shrivastava, CP

Sudhir Agarwal, JM

Dr. A. Senthil Vel, EM

April 24, 2024
M.A. No. 23/2024
IN EA No. 01/2023 IN OA No. 673/2018
DV