



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
क्षेत्रीय कार्यालय, चंडीगढ़ / Regional Office, Chandigarh



F. No.: 1-07/2024/Misc./Env/eFile



Dated: 05/07/2024

To

The Hon'ble Mr. Justice Prakash Shrivastava,
National Green Tribunal (PB),
Faridkot House, Copernicus Marg,
Near India Gate, New Delhi- 110001
Email: judicial-ngt@gov.in

Sub: Joint inspection in the matter in OA. 249/2024 titled as Kapil Dev Versus State of Punjab & others- reg.

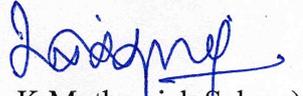
Ref.: Hon'ble NGT(PB) order dated 18.03.2024.

Sir,

With reference to Hon'ble NGT(PB) order dated 18.03.2024 on the subject cited above, please find enclosed herewith the joint Committee Report in the matter in OA. 249/2024 titled as Kapil Dev Versus State of Punjab & others for further necessary action.

Encls: As Above

Yours faithfully,


(Dr. K Muthamizh Selvan)
Addl. Director /Scientist 'E'

Report of the Joint committee constitute by the Hon' ble NGT in the matter of Original Application No. 249/2024 Kapil Dev VS State of Punjab & Ors.

Background

The petitioner in the application to the Hon'ble National Green Tribunal, Principal Bench, New Delhi has raised the complaint about illegal discharge of sewerage effluent by unknown colonies into water bodies/drains as well as in open land leading to serious health hazards in the localities. In view of the issues raised by the Petitioner, the Hon'ble NGT has constituted a Joint committee comprising (1) Regional Officer, Ministry of Environment, Forest and Climate Change (MoEF&CC), Chandigarh and (2) District Magistrate, Mohali District.(Order annexed as Annexure 1). The RO, MoEF&CC is a coordinating agency. The TOR of the Committee is to carry out spot inspection, ascertain the truthfulness of the allegation and also collect the samples from the concerned water body and get the sample analyses report and suggest remedial measures and submit the action taken report.

The committee had requested the Central Pollution Control Board (CPCB) Regional Directorate, Chandigarh for the sample collection and analysis. Accordingly, a team of officials from the CPCB, RO Chandigarh, MoEF& CC, RO

Chandigarh and a official nominated from the District Magistrate, Mohali District visited the spot inspection on 12.06.2024 and collected the water samples.

The samples are collected from Chhattbir Zoo Road (GPS Coordinates - 30.606765, 76.791212), National Highway at plot (GPS Coordinates 30.636178, 76.801908) adjoining to “Jai Shiv Shankar Marble” . The samples were sealed and send it to CPCB labs for analysis. Based on the analysis report received as on 01.07.2024 from CPCB HO laboratory, the results are summarised in the table and enclosed as annexure.

The committee observed that Untreated sewerage effluent through RCC closed conduit of Diameter 12 inch(approx.) was seen coming from Chhatt Village, Mohali discharging into open drainage system i.e drainage ditches (running along periphery of Chhattbir Zoo) near opposite to Chhattbir Zoo which is finally submerged into Ghaggar river. Also, it was observed that water from Satabgarh pond (due to outfall of sewerage water of Satabgarh village, Mohali) also falls at this point. Blackish Color and foul Odour of sewage has observed at the point of discharge of sewage into open drainage system i.e drainage ditches indication no treatment is being given to sewage before discharging into open drainage system which finally submerged into Ghagghar River.

Untreated sewerage effluent from Zirakpur Municipality, Punjab was seen overflowing into the open land along the National Highway near M/s Jai Shiv Shankar Tiles, Zirakpur and VIP Road, Zirakpur. According to the local people, all the premises around this place get submerged in water during rainy season and it becomes difficult for them to live here.



Figure 1: Google map of Drain at Chhattbir Zoo Road.

In National Highway at plot (GPS Coordinates 30.636178, 76.801908) adjoining to “Jai Shiv Shankar Marble, the committee noted that there is no proper sewerage system installed by the Municipal corporation. The untreated sewage water from

Zirakpur released at open land and the water was blocked due to the smaller size of pipe installed.

The laboratory test results are also indicated the high levels COD, BOD, Iron and Total Suspended Solid (TSS). The summarized results are enclosed as annexure.

Recommendations

- The untreated sewage released at Chattbir Zoo Road (GPS Coordinates - 30.606765, 76.791212) may be directed to the pond after some treatment to allow bio remediation naturally. Municipal corporation/District Administration may be directed to examine the area and do the needful accordingly.
- STP of adequate capacity should be installed to treat the sewage generated from Chhatt Village and Sattabgarh Village.
- The ground water in nearby area may be monitored for heavy metal contamination and take appropriate action if contaminated.
- As there are many agricultural areas, the soil may be tested for heavy metal contamination; accordingly the concern department may take appropriate action.
- The untreated water should not to be used for irrigation purposes.

- The proper sewerage system at National Highway at plot (GPS Coordinates 30.636178, 76.801908) adjoining to “Jai Shiv Shankar Marble” may be installed.. Accordingly the Municipal Corporation of Zirakpur may be directed for the needful action.
- The entire sewer system should be mapped and recorded properly for taking appropriate measures.

-Joint Committee-

DM (Nominee)
Mohali District Adminsitration

Representative of MOEF & CC RO,
Chandigarh.


Sh. Gurtej Singh Garcha
(Executive Engineer)

Dr. K.Muthamizh Selvan
(Scientist E)

Report of CPCB, RD Chandigarh w.r.t work assigned in reference of MoEF&CC letter and E-Mail Dated 06.06.2024 in the matter of OA No.249/2024 titled "Kapil Dev Vs State of Punjab &Ors." dated 18.03.2024.

Table 1: Analysis Report of Heavy Metals (Lab report Annexed as A-1)

S. N	Sampling location	Coordinates	Sample Code	Parameters										
				Arsenic (mg/L)	Cadmium (mg/L)	T.Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Zinc (mg/L)
1.	Discharge of Satabgarh Pond before meeting Outfall of Chatt Village drain Opposite to Chattbir Zoo, Mohali finally submerged into Ghaggar river.	30.607116, 76.791850	PS-1	BDL	BDL	BDL	BDL	0.097	0.454	0.013	0.156	BDL	BDL	0.055
2.	Outfall of Sewage of Chatt Village Opposite Chattbir Zoo, Mohali finally submerged into Ghaggar river.	30.607112, 76.791836	CV-1	BDL	BDL	0.012	0.002	0.059	6.024	0.023	0.238	0.008	BDL	0.266
3.	At mixing point of Satabgarh Pond discharge and Outfall of Chatt Village drain Opposite to Chattbir Zoo, Mohali finally submerged into Ghaggar river.	30.607111, 76.791835	MX-1	BDL	BDL	0.009	0.002	0.038	4.26	0.015	0.219	0.005	BDL	1.083
		#Prescribed Standard		0.2	2.0	2.0	NS	3.0	3.0	0.1	2	3.0	0.05	5.0
4.	Open Plot adj. to M/s Jay Shiv Shankar Tiles ZirakPur, Punjab.	30.636256 76.801815	MS-1	BDL	BDL	BDL	BDL	0.015	1.005	BDL	0.306	BDL	BDL	0.067
5.	Open Plot adj.to VIP Road ZirakPur, Punjab.	30.632667 76.799303	VP-1	BDL	BDL	0.027	0.008	0.04	17.93	0.024	0.675	0.024	BDL	0.185
		\$Prescribed Standard		0.2	Not specified.									

*BDL: Below Detection Limit

#Prescribed Standard: for Inland surface Water as per The Environment (Protection) Rules, 1986, Schedule VI (General Standards for Discharge of Environmental Pollutants Part-A)

\$Prescribed Standard: for Land for irrigation as per The Environment (Protection) Rules, 1986, Schedule VI. (VI General Standards for Discharge of Environmental Pollutants Part-A)

@NS: Not specified.

Table 2: Analysis Report of Physiochemical Parameters (Lab report Annexed as A-2)

S. N	Sampling location	Coordinates	Field Code	Parameters												O&G (mg/L)	NH ₃ -N (mg/L)	TKN (mg/L)
				pH	Conductivity (µs/cm)	COD (mg/L)	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	PO ₄ -P (mg/L)	Chloride (mg/L)	NO ₃ -N (mg/L)	NO ₂ -N (mg/L)	SO ₄ ⁻ (mg/L)	Colour			
1.	Discharge of Satabgarh Pond before meeting Outfall of Chatt Village drain Opposite to Chattbir Zoo, Mohali finally submerged into Ghaggar river.	30.607116, 76.791850	PS-1	7.9	1363	107	29	21	672	3.25	103	0.31	0.02	60	21	Not Collected.	31	39
2.	Outfall of Sewage of Chatt Village Opposite Chattbir Zoo, Mohali finally submerged into Ghaggar river.	30.607112, 76.791836	CV-1	7.6	1491	318	109	260	700	2.55	103	0.60	0.05	79	23	6		44
3.	At mixing point of Satabgarh Pond discharge and Outfall of Chatt Village drain Opposite to Chattbir Zoo, Mohali finally submerged into Ghaggar river.	30.607111, 76.791835	MX-1	7.7	1395	264	84	196	640	2.80	93	0.49	0.03	67	26	Not Collected.	32	43
		#Prescribed Standard		5.5-9.0	NS	250	30	100	NS	5	NS	10	NS	NS	NS	10	50	100
4.	Open Plot adj. to M/s Jay Shiv Shankar Tiles ZirakPur, Punjab.	30.636256 76.801815	MS-1	7.7	1318	73	32	29	648	1.53	97	0.25	0.02	88	25	BDL	19	26
5.	Open Plot adj. to VIP Road ZirakPur, Punjab.	30.632667 76.799303	VP-1	7.8	1252	148	30	521	572	1.79	80	0.22	0.05	62	26	Not Collected.	22	32
		\$Prescribed Standard		5.5-9.0	NS	NS	100	200	NS	NS	NS	NS	NS	NS	NS	10	NS	NS

*BDL: Below Detection Limit

#Prescribed Standard: for Inland surface Water as per The Environment (Protection) Rules, 1986, Schedule (VI General Standards for Discharge of Environmental Pollutants Part-A)

\$Prescribed Standard: for Land for irrigation as per The Environment (Protection) Rules, 1986, Schedule VI. (VI General Standards for Discharge of Environmental Pollutants Part-A)

@NS: Not specified.

Table 3: Analysis Report of TC/FC (Lab report Annexed as A-3)

				Parameters
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S. N	Sampling location	Coordinates	Field Code		
				TC (MPN/100ml)	FC (MPN/100ml)
1.	Discharge of Satabgarh Pond before meeting Outfall of Chatt Village drain Opposite to Chattbir Zoo, Mohali finally submerged into Ghaggar river.	30.607116, 76.791850	PS-1	14X10 ⁶	46X10 ⁵
2.	Outfall of Sewage of Chatt Village Opposite Chattbir Zoo, Mohali finally submerged into Ghaggar river.	30.607112, 76.791836	CV-1	94X10 ⁷	46X10 ⁷
3.	At mixing point of Satabgarh Pond discharge and Outfall of Chatt Village drain Opposite to Chattbir Zoo, Mohali finally submerged into Ghaggar river.	30.607111, 76.791835	MX-1	22X10 ¹⁰	21X10 ⁹
		#Prescribed Standard		Not specified	Not specified
4.	Open Plot adj. to M/s Jay Shiv Shankar Tiles ZirakPur, Punjab.	30.636256 76.801815	MS-1	28X10 ⁵	12X10 ⁵
5.	Open Plot adj. to VIP Road ZirakPur, Punjab.	30.632667 76.799303	VP-1	17X10 ¹⁰	21X10 ⁹
		\$Prescribed Standard		Not specified	Not specified

Findings:

1. Analysis results received from CPCB HO laboratory indicate that the parameter namely COD, BOD, TSS and Iron are exceeding the prescribed limits at the following locations Table (4).

Table 4:

S. N	Sampling location	Coordinates	Sample Code	Parameters which were found to be exceeding							
				COD		BOD		TSS		Iron	
				Result	Prescribed limit	Result	Prescribed limit	Result	Prescribed limit	Result	Prescribed limit
1.	Outfall of Sewage of Chatt Village Opposite Chattbir Zoo, Mohali finally submerged into Ghaggar river.	30.607112, 76.791836	CV-1	318	250	109	30	260	100	6.024	3.0
2.	At mixing point of Satabgarh Pond discharge and Outfall of Chatt Village drain Opposite to Chattbir Zoo, Mohali finally submerged into Ghaggar river.	30.607111, 76.791835	MX-1	264		84		196		4.26	
3.	Open plot adj. To VIP Road ZirakPur, Punjab.	30.632667 76.799303	VP-1	-	-	-	-	521	200	-	-

Name and signature of the CPCB Team:

1. Aakash Mishra, Scientist B:
2. Sh. Shahid Khan, SSA:
3. Sh. Shubham, OA(S):