



केन्द्रीय प्रदूषण नियंत्रण बोर्ड

CENTRAL POLLUTION CONTROL BOARD

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार

By Speed Post MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

CP-11/108/2021-IPC-III-HO-CPCB-HO / 2885

July 25, 2022

To,

The Member Secretary
Rajasthan State Pollution Control Board
4, Jhalana Institutional Area
Jhalana Doongri, Jaipur
Rajasthan - 302004

Direction under section 18 (1)(b) of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 in the Hon'ble NGT matter of Aditya Singh Chauhan Vs CPCB & Ors. In OA no. 233 of 2021.

WHEREAS, among others, under Section 17 of the Water (Prevention and Control of Pollution) Act, 1974, one of the functions of the State Pollution Control Board (SPCB)/ Pollution Control Committee (PCC), constituted under the Water (Prevention and Control of Pollution) Act, 1974 is to plan a comprehensive programme for prevention, control of abatement of pollution streams and wells located in the State/UT and to secure the execution there; and

WHEREAS, the Central Government has notified the standards for discharge of environmental pollution from various categories of industries under Environment (Protection) Act, 1986 and the rule framed there under; and

WHEREAS, the CPCB and SPCBs have been pursuing the polluting industries to install effluent treatment plants (ETPs) to comply with the effluent discharge standards as notified under the Environment (Protection) Act, 1986 and the rule framed there under; and

WHEREAS, the SPCBs/PCCs can stipulate stringent standards for discharge of environmental pollution from various categories of industries than those notified by the Central Government, under the Environment (Protection) Act, 1986 and rules framed there under; and

WHEREAS, it is obligatory on the part of industries to install effluent treatment plants (ETPs) to comply with the effluent discharge standards as notified under the Environment (Protection) Act, 1986 and the Rules framed there under and also to meet the consent conditions granted by State Pollution Control Board (SPCBs) / Pollution Control Committees (PCCs); and

WHEREAS, an application was filed in Hon'ble NGT Principal Bench by Sh. Aditya Singh Chauhan regarding use of pet coke and ceramic tiles dust for heating of the boilers by the textile industries at Ahmedabad and Narol in Gujarat and Pali in Rajasthan. Further, it was also complained that hot boiler waste is improperly discharged on barren land leading to heaps of mounds of ash, which in turn generate air pollution; and

WHEREAS, Hon'ble NGT (PB) in OA no. 233 of 2021, Aditya Singh Chauhan Vs Central Pollution Control Board & Ors. vide order dated 25.11.2021 directed that the applicant should raise the issue first before the CPCB so that CPCB may, in coordination with the State PCBs and after interaction with the stakeholders, take a call in the matter; and

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WHEREAS, a meeting was held in the Hon'ble NGT matter OA No. 233 of 2021, Aditya Singh Chauhan Vs CPCB & Ors. on 21.01.2022, through Video Conferencing. Officials from Head Office, CPCB, Regional Directorate, Bhopal, CPCB, Regional Office, Pali, RSPCB, and the applicant attended the meeting to discuss the issues. It was decided in the meeting that a joint inspection will be carried out by CPCB & RSPCB to address the complaint; and

WHEREAS, a joint inspection was carried out by team of CPCB Regional Directorate Bhopal and Regional Office, RSPCB, Pali, during 14 -18 February, 2022. The joint team also carried out inspection of eleven industries (list attached) randomly selected in the area.

Following are the major observations reported by the team:

- i. All inspected units were found operational with valid Consent To Operate under Water (Prevention and Control of Pollution) Act, 1974 & Air (Prevention and Control of Pollution) Act, 1981 and valid Authorization under Hazardous Waste Management Rules, 2016 issued by RSPCB, except M/s R.B. Process, F-83 Mandia Road Industrial Area, Pali, which do not have valid Authorization at the time of inspection.
- ii. Out of eleven inspected units, five units were following ZLD practice, five industries are sending their effluent into CETP, and one industry is not generating any waste water as it is involved in finishing of cloth only.
- iii. None of the inspected industries was having record of actual quantity of the fly ash generated & disposed and daily quantity of coal consumed.
- iv. None of the industries have identified the specific area for storing the Coal/Biomass brickets and sludge generated from CETP.
- v. All five inspected member industries of CETP have installed PETP for treatment of the effluent before sending into CETP.
- vi. Most of the industries are selling their boiler ash to the local vendors who are further selling it to brick manufacturers, but no record is maintained by any industry.
- vii. The joint inspection team has collected the sample from River Bandi. The lab analysis result of the collected sample is tabulated below:

Location	pH	TSS	TDS	COD	BOD	CI	F	Na	K	SAR
Bandi River downstream at Gadwada Bridge	8.82	240	2427	264	64	1364.82	2.70	3148	137	44.79

All values are in mg/l except pH. It is evident from the analysis results, that River Bandi is not meeting the primary water quality requirements for bathing and even not fit for class E requirements under designated best use of River.

- viii. The joint inspection team has collected the sample from Ground water in the nearby area. The lab analysis result of the collected sample is tabulated below:

Location	pH	Conductivity	TDS	COD	NO ₃	Cl	PO ₄	SO ₄	F	Na	K
Open well of Girdhari Singh Choudhary near bandi bridge. Pali by pass road	7.85	5.09	3233	29.4	0.0456	869.58	0.1187	460.31	3.12	1190	29
Open well of girdhari singh, rajpurohit Punayat a Road In dustrial Area	8.01	4.68	3201	6.3	1.5464	545.93	0.0524	1055.39	7.35	964	17.25
Open well of Sh. Pol singh Rajpurohit Punayat a Road in dustrial Area	7.75	5.07	3510	7.14	0.8056	826.69	0.1214	804.83	0.807	931	28.75
Sh. Bhan a Ram Kal. Dhar u Nagar. Madia Ro ad Indust rial Area	7.96	5.26	3349	7.14	0.724	760.4	0.0289	647.28	6.0	1326	15
Open Well of Sh Bulal Sup atra Shek hokidhan iMandia Road Industria l Area	8.04	3.59	2390	7.98	0.7008	428.95	0.0883	778.26	5.50	867	15.75
Sh. Muke sh Rajpur ohit, Pun ayta Roa d Industria l Area	7.47	9.52	6351	28.56	1.1896	1540.3	0.0441	1488.18	3.35	2007	30.5
Open Well of Sh. R anaram, Sumerpu r	7.55	1.92	1596	10.5	0.056	113.08	0.0331	646.33	2.23	178	14.5

Open well of Loomji Chaudhary, Naya gaon	7.66	10.1	6193	14.7	0.436	2550.27	0.0772	467.19	1.9	2534	50
Jawai Dam	7.93	0.497	303	12.6	0.0128	35.09	0.1738	20.88	0.637	82	18.75
Ranakpur Dam	8.26	0.839	532	22.68	0.028	38.99	0.1876	6.64	0.705	101	16.5
BIS Standards (10500:2012) (Acceptable limits)	6.5-8.5	-	500	-	45	250	-	200	1.0	-	-
BIS Standards (Permissible limits)	6.5-8.5		2000		45	1000	400	1.5

Except pH, all values are in mg/l.

It is evident from the analysis result that ground water quality in the area is **not meeting** the prescribed BIS Standards (10500:2012) acceptable limit w.r.t. TDS & SO₄ (all locations except Jawai Dam & Ranakpur Dam), Cl (all locations except Open well of Sh. Ranaram, Sumerpur, Jawai Dam & Ranakpur Dam), F (all locations except Open well of Sh. Pol Singh Rajpurohit Punayta Road industrial area, Jawai Dam & Ranakpur Dam).

- ix. The joint inspection team has also inspected the CETPs in the area and collected the sample from CETP-Unit VI, which is discharging its treated effluent into River Bandi. The lab analysis result of the collected sample from CETP is tabulated below:

	pH	TSS	TDS	COD	BOD	Cl	F	SO ₄	O&G	NH ₃ -N
CETP-VI FINAL OUTLET	7.83	56	3311	364	192	580	2.6	629	2.2	3.27
CONSENT LIMIT	5.5-9.0	100	2100	250	30	1000	2.0	1000	10	50

All values are in mg/l except pH.

It is evident from the analysis result that the CETP is not complying w.r.t TDS (**3311mg/l as against 2100mg/l**), COD (**364mg/l as against 250**), BOD (**192mg/l as against 30mg/l**) & F (**2.6mg/l as against 2.0mg/l**) as per consented discharge standards.

- x. The joint inspection team has also inspected the STPs in the area and collected the sample from final outlet of **7.5 MLD STP & 15 MLD STP**, which are partially reusing their waste water and partially discharging the water in River Bandi. The lab analysis result of the collected sample from both STPs is tabulated below:

	pH	TSS	COD	BOD	NH3-N	CI	TOTAL COLIFORM (MPN/100ML)	FEACEL COLIFORM (MPN/100ml)
7.5 MLD STP-FINAL OUTLET	7.85	66	464	144	4.49	257.36	>16000	120
15 MLD STP-FINAL OUTLET	7.4	15	76	17	1.05	252.68	>16000	100
CONSENT LIMIT	5.4-9.0	----	50	10	----	-----	-----	230

All values are in mg/l except pH.

It is evident from the analysis result that both the STPs are not complying w.r.t COD & BOD as per prescribed standards of RSPCB.

- xi. The joint inspection team has also collected the final treated water samples from the industries consented for Zero Liquid Discharge (ZLD). The analysis result of these industries are tabulated below:

NAME INDUSTRY	LOCATION	pH	TSS	TDS	COD	BOD	CI	NH3-N
M/s Shankeshwar Fabric Pvt Limited, Unit - II, Mandia Road Industrial Area, Pali	RO Permeate	7.99	13	2869	468	101	1965.34	0.8894
M/s Shree Padmavati Dyeing Punayata Road Industrial Area, Pali	MVR outlet	7.59	2	39	37	07	3.9	0.006
M/s Tulsi Cotton Pvt Limited, Unit-IT. Punayata Road Industrial Area. Pali	RO Permeate	7.92	3	193	15	4	21.05	5.1265
M/s K. B. Dyeing Pvt Limited. Mandia Road Industrial Area, Pali	RO Permeate	7.08	7	523	9	3	121.66	0.9075
M/s Gogad Fabric Pvt. limited. RITCO Industrial Area Phase-II, Pali	RO Permeate	7.82	3	381	15	7	124.78	4.6697

All values are in mg/l except pH.