JOINT COMMITTEE REPORT

IN COMPLIANCE WITH ORDER OF HON'BLE NATIONAL GREEN TRIBUNAL, PRINCIPAL BENCH, NEW DELHI IN THE MATTER- ORIGINAL APPLICATION NO. 563 OF 2022

RELATED TO PAST INCIDENT OF FISH KILL AND POLLUTION IN RIVER PANCHGANGA, DIST KOLHAPUR, MAHARASHTRA

IN COMPLIANCE OF ORDER DATED 30.08.2022 OF HON'BLE NGT, PRINCIPAL BENCH, NEW DELHI

FOR SUBMISSION TO

HON'BLE NATIONAL GREEN TRIBUNAL,

PRINCIPAL BENCH, NEW DELHI

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IN COMPLIANCE OF ORDER DATED 30.08.2022 OF HON'BLE NGT, PRINCIPAL BENCH, NEW DELHI

COMMITTEE MEMBERS

Name	Name of Department	Signature
Shri Rahul Rekhawar District Magistrate	District Magistrate, Kolhapur	06/02/23
Shri. Pratik Bharne Scientist 'E'	Central Pollution Control Board (CPCB), Regional Directorate, Pune	
Shri. Jagnnath Salunkhe Regional Officer, Kolhapur	Maharashtra Pollution Control Board (MPCB)	

Date:06/02/2023

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1.0 BACKGROUND

An Original Application (O.A.) bearing No. 563/2022 is filed by Vrinda Basu against State of Maharashtra & Anr. Grievance in this Application is against failure to take remedial action against pollution of River Panchganga at Ichalkaranji in District Kolhapur, Maharashtra. The Applicant is relied upon media report published in Times of India on 03/03/2022 titled 'Ichalkarnji stops lifting water from Panchganga'. The report mentions that contamination of river has resulted in death of the fish which were floating in water. Also foul smell has spread along the river side as the dead fish were not removed. Sewage from the city and 39 river side villages, apart from pollutants from sugar factory and chemical mixed drainage water, is directly flowing into Panchganga, resulting in dropping of oxygen level in the river water.

Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi passed an order on 30.08.2022 and constituted a joint committee comprising of District Magistrate-Kolhapur, Maharashtra Pollution Control Board (MPCB) and Central Pollution Control Board (CPCB).

The committee is directed to furnish,

- **A factual and action taken report in respect of the fish kill incident occurred in river Panchaganga, Kolhapur due to pollution of river Panchaganga.**

- **Factual position on quantity of sewage being discharged into river Panchganga directly or through other modes by rural and urban areas.**
- **Current status on treatment and utilization/disposal of sewage in Kolhapur in compliance with order dated 25.02.2021 in OA No. 988/2018, Dr. Balkrishna A. Shelar Vs. State of Maharashtra**
- **Status of discharge of trade effluent and compliance by the industries with CTO conditions.**
- **Existing water quality of River Panchganga at relevant locations.**

The copy of aforesaid Hon'ble NGT order dated 30.08.2022 is provided at **Annexure-1**

2.0 THE COMMITTEE

In compliance with aforesaid order, MPCB constituted a committee comprising of District Magistrate, Kolhapur, Representative of CPCB, Pune and Regional officer, MPCB, Kolhapur vide its office order dated 14/09/2022. A copy of the office order dated is attached herewith as an **Annexure – 2**.

The committee comprised of following members-

01	Shri Rahul Rekhawar	District Magistrate Kolhpaur
02	Shri Pratik D. Bharne	Scientist-E, CPCB, RD, Pune
03	Shri Jagnnath S Salunkhe	Regional Officer, MPCB, Kolhapur

3.0 APPROACH OF COMMITTEE

In compliance with aforesaid order wherein it was directed to furnish position on quantity of sewage being discharged into River Panchganga directly or through other modes by rural and urban areas, status on treatment and utilization/disposal of sewage in Kolhapur in compliance with order dated 25.02.2021 in OA No. 988/2018 (WZ), Dr. Balkrishna A. Shelar Vs. State of Maharashtra, status of discharge of trade effluent and

compliance by the industries with CTO conditions and existing water quality of river Panchganga at relevant locations, the committee adopted following approach-

- Collection of data/information from Kolhapur Municipal Corporation (KMC), Ichalkaranji Municipal Corporation (IMC) and Zilha Parishad, Kolhapur regarding Sewage Management (generation, collection and treatment), CETPs, Industries established in the catchment area of the river Panchaganga
- Review/Interpretation of information/data provided by Corporations, Zilha Parishad, CETPs and Industries
- Compilation of MPCB data from previous reports/various directions/notices issued and previous monitoring results of River Panchganga, CETPs, STPs etc
- Site visits and monitoring of STPs of Kolhapur and Ichalkaranji Municipal Corporations, River Panchganga, natural drains carrying sewages/ industrial wastewater, CETPs and industries during the period from 19/10/2022 to 21/10/2022. The photographs taken during the visits are given in **Annexure-3**. During the visits, sampling of water/wastewater carried out at River-Panchganga, Natural Drains, CETPs by Staff of MPCB/CPCB as per the instructions of the Committee. The samples of water/wastewater analyzed at Regional Laboratory, MPCB, Chiplun.
- Report preparation and submission

4.0 ABOUT RIVER PANCHGANGA-

The Panchganga River originates in the Western Ghats. It has five tributaries i.e. Bhogavati, Tulsi, Kumbhi, Kasari and Dhamani rivers. Panchganga River

is in the southern part of the Maharashtra and flows along the border of Kolhapur city on north side.

It starts from Prayag Sangam (Village: Padali BK., Taluka: Karvir, Dist: Kolhapur). The Prayag Sangam (confluence) marks the beginning of the Panchganga river and after receiving the water of the four major tributaries and minor tributaries continues towards east about 45 kms and meets with the Krishna River at Kurundvad. The location map showing River Panchganga & its tributaries and River Krishna is shown in **Figure-01.**

The river Panchganga including its tributaries have total 67 number of small check dams called Kolhapur Type (KT) Weirs and 8 nos of KT Weirs are provided in the stretch from Prayag Chikali to Kurundwad to facilitate to stagnant the water which is used for the purpose of lifting water for domestic use and irrigation use. The irrigation Department maintain the water level at these KT Weirs by discharging water from dams at the upstream of tributaries of Panchganga in a cyclic manner as per the requirement for the consumption of domestic and irrigation use. However, these KT Weirs creates a stagnant water in the river along the stretch when there is lean flow and effects water quality in respect of environment.

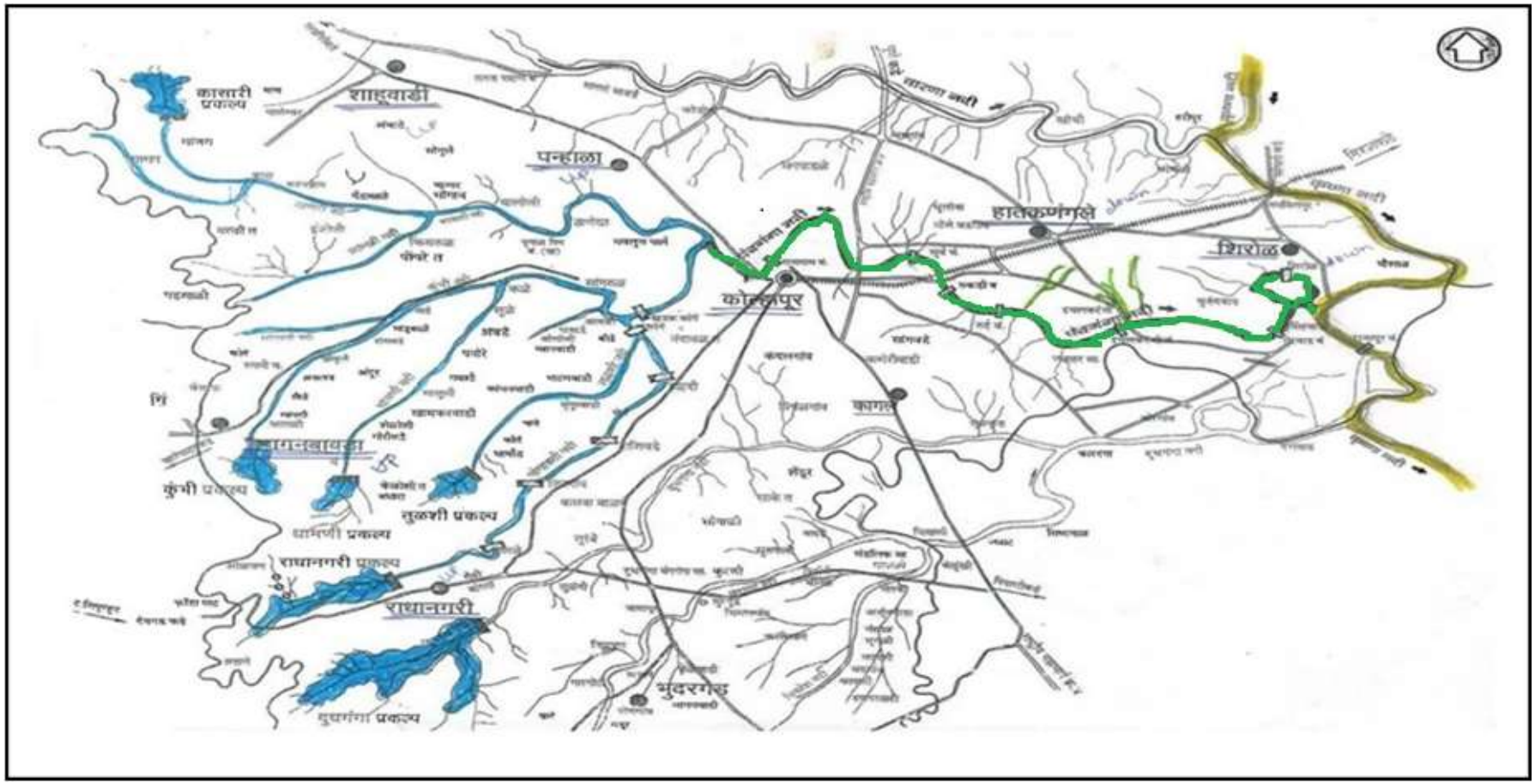


Figure-01- River Panchganga and its tributaries and River Krishna

5.0 FISH KILL INCIDENT IN RIVER PANCHGANGA IN JANUARY AND FEBRUARY 2022

MPCB received videos, news through social media on 19/01/2022 regarding fish kill in river Panchganga at Kasaba Bawada. MPCB officials visited various locations including fish kill location along the River Panchganga during the period from 20.01.2022-24.01.2023 as well as the committee constituted by Member Secretary MPCB under the chairmanship of District Collector including representative of KMC, Jilha Parishad Kolhapur, MIDC, Municipal Council Ichalkanaji, MPCB officials etc vide office order dated 24.02.2021. The committee constituted for monitoring of Panchganga river pollution prevention and control. The aforesaid committee also carried out visit on 24/01/2022. The committee observed fish kill in small area of the river Panchganga in the jurisdiction of KMC.

It was also observed that in the upstream of fish kill location, there was accidental discharge of treated effluent from air valve fitted on pipeline carrying treated effluent from Sugar industry- M/s Shri Chhatrapati Rajaram Sahakari Sakhar Karkhana Ltd. Kasaba Bawada, Kolhapur to agriculture farms for the discharge on land for irrigation. Also, there was discharges of treated (from STP-76 MLD and 17 MLD) and untreated sewage through various natural drains/nalhas in the up-stream of the fish kill location.

The aforesaid committee submitted its report to MPCB regarding fish kill incident. Based on the committee report (which includes analysis results of sampling), MPCB issued Show Cause Notice (SCN) on 19.01.2022 under section- 33 A of the Water (P & CP) Act, 1974, Air (P & CP) Act 1981 and E (P) Act, 1986 to Kolhapur Municipal Corporation (Hydraulic Engineer and Environmental Engineer) and M/s Shri

Chhatrapati Rajaram Sahakari Sakhar Karkhana Ltd. Kasaba Bawada, Kolhapur regarding the fish kill incident occurred due to pollution.

After the above incident, again news regarding fish kill on 22.02.2022 at same location i.e. Kasaba Bawada received through telephone, viral videos through social media and local newspapers. MPCB officials visited various locations including fish kill location along the River Panchganga on 22.02.2022 to 01.03.2022, and also visited nearest two industries on 01/03/2022 viz M/s Shri Chhatrapati Rajaram Sahakari Sakhar Karkhana Ltd. and M/s Kolhapur Sugar Mill Kasaba Bawada, Kolhapur. It was observed that discharge of treated effluent due to leakage of air valve fitted on pipeline carrying treated effluent from Sugar industry from 19.02.2022 and it was also observed on 01.03.2022 that effluent was observed entering into the river Panchnganga (Near Ulape Farm) through underground pipeline, non-compliances of discharge standards and improper operation of ETP by M/s Shri Chhatrapati Rajaram Sahakari Sakhar Karkhana Ltd. Kasaba Bawada, Kolhapur.

Based on the visit reports, including analysis results, MPCB issued Closure directions on 03/03/2022 under section- 33 A of the Water (P & CP) Act, 1974, Air (P & CP) Act 1981 and E (P) Act, 1986 to M/s Shri Chhatrapati Rajaram Sahakari Sakhar Karkhana Ltd. Kasaba Bawada and directed concern authorities to disconnect water and electricity supply of the said industry. A copy of Closure Directions is provided at **Annexure-4.** Based on aforesaid closure direction, the industry stopped its manufacturing activity on 04.03.2022 as well as concerned authority disconnected electricity on 15.03.2022. The copies of the letter from industry and disconnection letter are attached herewith as an **Annexure –5** and **Annexure-6** respectively.

This committee also visited the sugar industry- M/s Shri Chhatrapati Rajaram Sahakari Sakhar Karkhana Ltd. Kasaba Bawada on 20.10.2022. It is observed that the industry was not in operation due to non-crushing season.

It was observed during the visit that the industry has replaced leaked old pipeline by heavy duty sixty kg 'O' PVC pipes and replaced the leaked air volves as well as necessary modifications i.e. separate treated effluent tank and fresh water tank was done by the industry as per the compliance report submitted dated 07.07.2022 w.r.t. to closure directions.

The copy of revoke conditional directions dated 28.09.2022 is attached as **Annexure-7.**

6.0 PROBABLE POLLUTION SOURCES OF RIVER PANCHGANGA

The probable sources of pollution in the catchment area of River Panchganga and its tributaries are-

- Untreated and treated sewage from Kolhapur Municipal Corporation (KMC), Ichalkaranji Municipal Corporation (IMC), 4- Municipal Councils/Nagar Panchayats & around 171 villages as Kolhapur Municipal Corporation (KMC), Ichalkaranji Municipal Corporation (IMC), 4- Municipal Councils/Nagar Panchayats are situated on the bank of river at tributaries of Panchaganga River and downstream of origin of river Panchganga i.e. Prayag Chikhali to Kurundwad.
- Surface runoff from land discharge for irrigation/ land application -HRTS of treated effluent from mainly 3-CETPs as well as surface runoff from agriculture activities after of fertilizers/pesticides etc
- Illegal/Accidental discharges, if any, mainly sugar/distillery industries- Sugar and Distilleries in Kolhapur Districts along the River Panchganga having their

own individual ETP and treated effluent is disposed on land for irrigation in normal operational activities except illegal/ accidental discharge.

7.0 STATUS OF SEWAGE GENERATION, COLLECTION, TREATMENT & DISPOSAL AT LOCAL BODIES (URBAN & RURAL AREA)-

7.1 Kolhapur Municipal Corporation (KMC)

The population of the Kolhapur as per 2011 census is 5,49,230. The current estimated population of Kolhapur city in 2023 is 7,57,000.

7.1.1 Water Supply

There are total three pumping stations viz. Shingnapur, Balinga and Nagdevwadi which are currently lifting water from River Panchganga and in addition, water is also lifted from Kalamba Lake.

Total quantity of raw water lifted from river Panchganga is around 140 MLD which is treated at Water Treatment Plants (WTP) at Puikhadi WTP-50MLD, Balinga WTP-41MLD, Bawada WTP- 41MLD and Kalamba WTP- 8MLD. In total, 140 MLD water is supplied by KMC.

7.1.2 Sewage Generation, Collection and Treatment

The sewage generation is 110 MLD. KMC has provided 2 STPs i.e. STP (76 MLD) at Kasaba Bawada and STP (17 MLD) at Dudhali. Thus, total 93 MLD sewage (84.5 %) is being treated by KMC whereas 17 MLD (15.5 %) untreated sewage is discharged to Panchganga River through different drains. Total 60 % area is covered under sewerage network. Treated Sewage as per consent condition to be used for irrigation purpose. However, it is mostly discharged into River Panchganga.

There are about 12 major sewage carrying natural drains/Nalas in the city of Kolhapur, out of which 6 natural drains/ Nalhas have been intercepted and diverted

to above said STPs at Kasaba Bawada and Dudhali. Also, work of interception and diversion of remaining 6 natural drains/Nalhas is yet to be completed by KMC and the same is in process under AMRUT scheme which is expected to be completed in the year 2023.

7.1.2.1 Sewage Treatment Plants (STP)-

A. STP (76MLD) at Kasaba Bawada-

STP is commissioned in December 2013. The STP is provided for the sewage generated from central part of city i.e. Laxmipuri, Shahupuri, Rajatrampuri, ST Stand, Bindu chowk, Jawaharnagar, Dasara Chowk, YP Pawar nagar etc . The sewage is also lifted to this STP from *Jayanti Nalha* at *Dasara Chowk* by providing a *Bandhara* in non-rainy season. *Jayanti Nalha* major sewage carrying natural drain (nalha) flow through the heart of the City.

Present, flow to STP is 76 MLD. STP consist of Screen chamber, Grit Chamber, Sequential Batch Reactor (SBR), Chlorine Contact Tank (Chorine Gas), Sludge Thickner and Decanter. Flow meter is provided at Inlet and Outlet of STP. However, On-line Continuous Effluent Monitoring System (OCEMS) is not provided at outlet of STP as per consent conditions.

B. STP (17MLD) at Dudhali

STP is commissioned in July, 2018. STP is provided for the area- Devkarpanand, Phulewadi, Tulajabhavani nagar, Nana Patil nagar, etc with sewerage network. Sewage is also arrested at Dudhali Nala by providing a Bandhara in non-rainy season and lifted to this STP.

The STP consist of Screen chamber, Grit Chamber, Sequential Batch Reactor (SBR), Chlorine Contact Tank (Chlorine Gas), Sludge Thickner and Decanter. Flow meter is provided at Inlet and Outlet of STP. However, On-line Continuous Effluent

Monitoring System (OCEMS) is not provided at outlet of STP as per consent conditions.

As per CTO issued by MPCB (combined for STP-76 MLD, 17 MLD), the treated sewage needs to use for irrigation only, but treated sewage is discharged in to nearby drain which is channelized which meets with River Panchganga. MPCB carry out visits and sampling regularly at STPs. Monitoring results are given in **Annexure-8.**

C. Proposed STPs

Additional two STPs of capacity of 4 MLD and 6 MLD under AMRUT scheme are under construction and which is expected to be completed in March 2023 and July 2023, respectively, as informed by KMC which is already delayed.

7.2 Ichalkaranji Municipal Corporation (IMC)-

The population of the Ichalkaranji as per 2011 census is 2,87,570 whereas current estimated populations in the year 2023 is 3,95,000.

7.2.1 Water Supply:

Krishna River at Majarewadi and River Panchganga at Ichalkaranji are the two main sources of water supply to Ichalkaranji City. Total quantity of raw water lifted from river Krishna and river Panchganga is around 50 MLD.

7.2.2 Sewage Generation, Collection and Treatment

Sewage generation is around 40MLD. The sewerage network covered 40 % of the city area. Out of 40MLD of sewage generated in city of Ichalkaranji only 20 MLD of sewage is being treated in STP (20 MLD) established at Sangali naka and remaining 20MLD of sewage without any treatment is discharged in to natural drain locally called *Kala Odha* and other natural drains/Nalhas which ultimately meets with River Panchganga.

7.2.2.1 STP (20 MLD)

STP of capacity 20 MLD is provided at Sangali naka which is commissioned in 1998 without Consent from MPCB and still operated without consent. Major quantity of the sewage is lifted from the TakawadeVes pumping Station. STP is provided for the sewage generated form the old city area. Present flow of STP is about 20 MLD. STP comprises of Screen Chamber, Grit chamber, Activated Sludge process (Aeration tank followed by secondary clarifier), Chlorination (Bleaching Powder) and Sludge Drying Beds. Flow meter is not provided at Inlet and Outlet of STP. On-line Continuous Effluent Monitoring System (OCEMS) is also not provided at outlet. During the visit, sewage was being discharged in to nearby drain which is partly (meagre quantity) used for irrigation & remaining (major quantity) meets with River Panchganga.

7.2.2.4 Proposed STP (18 MLD)

Additional STP of capacity 18MLD is proposed by IMC under Urban Infrastructure Development Scheme for Small & Medium Towns (UIDSSMT) scheme of Ministry of Urban Development, Govt of India. It is informed that the work of STP is expected to be completed in June 2024 and IMC also is in process to enhance old STP.

As a short term measure, the Corporation has also constructed Kolhapur Type Weirs at *Kala Odha & Chandur Odha* for disinfection of water by mixing bleaching powder and chlorine gas.

7.3 COUNCILS -

I. Hupari Nagar Parishad –

Hupari Nagar Parishad is located in the catchment area of river Panchganga having population of 28,953 wherein, daily water supply is 2.66 MLD and overall sewage generated is around 2.1 MLD. However, no treatment facility i.e. STP is provided

for the treatment of sewage. The individual houses are provided with Soak pit/ Septic Tank. Untreated sewage and partially treated sewage from Septic Tanks are discharged on land or in natural drains which meets River Panchganga.

II. Kurundwad Nagar Parishad –

Kurundwad Nagar Parishad is located in the catchment area of river Panchganga having population of 25,000 wherein, daily water supply is 1.92MLD and overall sewage generation is around 1.54 MLD. However, no treatment facility i.e. STP is provided for the treatment of sewage. The individual houses are provided with Soak pit/ Septic Tank. Untreated sewage and partially treated sewage from Septic Tanks are discharged on land or in natural drains which meets River Panchganga.

III **Shirol Nagar Parishad –**

Shirol Nagar Parishad is located in the catchment area of river Panchganga having population of 27,649 wherein, daily water supply is 1.92 MLD and overall sewage generation is around 1.04 MLD. However, no treatment facility i.e. STP is provided for the treatment of sewage. The individual houses are provided with Soak pit/ Septic Tank. Untreated sewage and partially treated sewage from Septic Tanks are discharged on land or in natural drains which meets River Panchganga.

IV. Hatkanangale Nagar Pachayat–

Hatkanangale Nagar Pachaya tis located in the catchment area of river Panchganga having population of 13,679 wherein, daily water supply is 0.9MLD and overall effluent generated is around 0.65 MLD. However, no treatment facility i.e. STP is provided for the treatment of sewage. The individual houses are provided with Soak pit/ Septic Tank. Untreated sewage and partially treated sewage from Septic Tanks are discharged on land or in natural drains which meets River Panchganga.

7.4 ZILLA PARISHAD, KOLHAPUR-

As per the information submitted by Zilha Parishad, total 171 Villages (Gram Panchayats) are situated on the basin of Panchganga river and its tributaries from its origin to its confluence with Krishna River, under the jurisdiction of Kolhapur Zilla Parishad.

Overall sewage generation from the 171 villages in the catchment area of Panchganga river and its tributaries is approximately 35 MLD, out of which about 39 Villages (gram panchayats) majorly discharged untreated sewage/partially treated sewage from Septic Tanks in to River Panchganga. The individual houses are mostly provided with Soak pit/Septic Tank. Untreated sewage and partially treated sewage from Septic Tanks are discharged on land or in natural drains which meets with River Panchganga. No treatment facilities i.e. STPs are provided by any Villages (Gram Panchayats).

7.5 MONITORING OF SEWAGE TREATMENT PLANTS (STPs)

Sampling of STPs carried out during the committee visit on 19.11.2022 and 21.11.2022 at STPs of KMC and STP of Ichalkanaji, respectively. Monitoring of STPs at Kolhapur and Ichalkarnji are regularly carried out by MPCB, RO, Kolhapur. The analysis results of the monitoring carried out at STPs by MPCB for January 2022 to October 2022 are provided in **Annexure-8**.

The analysis results of the sampling carried out during the committee visit are provided in **Table-01** as below-

TABLE-01 ANALYSIS RESULTS OF SAMPLING CARRIED OUT AT INLET & OUTLET OF STPs

Name of STP			M/s. Kolhapur Municipal Corporation (76 MLD)		M/s.Kolhapur Muncipal Corporation (17 MLD)		M/S Ichalkaranji Muncipal Council (20 MLD)	
Sr. No.	Parameters	Standards Prescribed	Date of Sampling					
			19.10.2022		19.10.2022		21.10.2022	
			Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
1	pH	6.5-9.0	7.4	7.8	7.6	7.8	7.6	7.7
2	BOD	10	8	4	10	4	80	28
3	COD	50	38	31.2	40	20	212	84
4	Suspended Solid	20	19	14	34	16	17	24
5	TAN	10	38.8	NA	3.36	NA	5.82	3.67
6	Nitrogen as (Nitrate)	5	6.6	NA	5.8	NA	1.02	10
7	Fecal Coliform	<100	..	11	..	8.2	..	21
8	Dissolved Oxygen	Not less than 5	..	NA	..	..	..	..
9	TKN	..	..	..	3.36	44.8	..	..

Note- The concentration is expressed in mg/l except pH and TC & FC. TC & FC is expressed in MPN/100ml

7.6 MONITORING OF NATURAL DRAINS/NALLAHS

Some major natural drains monitored during the visit on 21.10.2022 viz.

- Gandhinagar *Valiwade Nallah* which further meets river Panchganga D/s of NH-4 bridge
- Drain near road beside-M/S IPMC, Laxmi Co-op Ind estate, Ta-Hatkangale
- *Tilawani odha*, D/s Laxmi Cooperative Ind estate, Ta-Hatkangale
- *Kala Odha* U/S CETP (12 MLD) Discharge, Ichalkaranji
- *Kala odha* Beside Sumpwell, Takavadeves, Ichalkaranji
- Drain D/s of sumpwell at Takavadeves, Ichalkaranji

The analysis results are given in **Table-02.** It is observed from the analysis results that drain water is contaminated and these drains carrying treated & untreated sewage/ treated effluent from CETP (12 MLD-Ichalkaranji and 01 MLD Laxmi Industrial Estate)/ effluent from few industries, as per specific observations w.r.t. locations, during the visit.

The discharge of treated & untreated sewage/ treated effluent from CETP (12 MLD-Ichalkaranji and 01 MLD Laxmi Industrial Estate)/ effluent from few industries observed into different natural drains/nallahs in different areas which is not permitted as per Consents issued by MPCB.

TABLE-02 ANALYSIS RESULTS OF SAMPLES COLLECTED FORM NATURAL DRAINS/ NALLAHS DURING THE COMMITTEE VISIT

Location(s) →	Gandhinagar *Valiwade Nallah* which further meets river Panchganga D/s of NH-4 bridge	Drain near road beside M/S IPMC, Laxmi Co-op Ind estate	*Tilawani odha*, D/s Laxmi Cooperative Ind estate	*Kala Odha* U/S CETP (12 MLD) Discharge, Ichalkaranji	*Kala odha* Beside Sumpwell, Takavadeves, Ichalkaranji	Drin D/s of sumpwell at Takavadeves, Ichalkaranji
pH	7.7	8.3	8.3	7.8	7.7	7.5
B.O.D.	10	42	6	6	24	36
C.O.D.	32	160	45.2	46	72	120
SS	22	46	16	12	13	21
TDS	469	753	1173	712	815	510
O& G	BDL	BDL	BDL	BDL	BDL	BDL
Chloride	90.07	34.44	237.93	150.7	200.69	89.07
Sulphates	44.78	20.99	224.2	68.32	63.24	61.04
Total Hardness	200.80	250	445.20	339.20	280.6	198.40
TKN	5.6	62.72	11.2	11.2	27.44	5.6
Nitrate Nitrogen	6.28	3.41	6.67	5.31	7.11	6.14
Total Alkalinity	196	180	150	228	246	184

Note-All parameters are in mg/L except for pH

7.7 OBSERVATIONS BASED ON SEWAGE GENARTION, COLLECTION, TREATMENT & DISPOSAL

7.7.1 Based on the information provided by the Corporations, Councils and Zilha Parishad, details of Sewage Generation, Collection, and Treatment & Disposal/Discharge are given in **Table-03** below-

TABLE-03 DETAILS OF SEWAGE GENERATION, COLLECTION, AND TREATMENT & DISPOSAL/DISCHARGE

Sr. No.	Entity responsible for Pollution	Sewage Generation (MLD)	Sewage Treatment (MLD)	Untreated Sewage discharged into river (MLD)	Additional STPs under construction /planned/proposed
1	Kolhapur Municipal Corporation (KMC)	110	93 (84.5%)	17 (15.5%)	4 + 6 =10 (under construction)
2	Ichalkaranji Municipal Corporation (IMC)	40	20 (50 %)	20 (50 %)	18 (under construction)
3	Zilla Parishad, Kolhapur (171 Villages)	35	0	35 (100%)	--
4	Municipal Councils	5.5	0	5.5 (100%)	--
		190.5	**113 (59%)**	**77.5 (41%)**	

7.7.2 It is observed form the **Table-3** above that total 190.5 MLD sewage is generated from local bodies, out of which 113 MLD (59 %) is treated in STPs at Kolhapur and Ichalkaranji and 77.5MLD (41 %) is not treated. There is no treatment facility i.e. STPs provided for the Councils and villages. Septic tanks/Soak pits are provided by individual house

owners/societies/apartments which treats sewage partially. However, Overflow from Septic tanks/Soak pits are discharged either on land which percolates in land or in natural drains/Nalhahs which ultimately meets with river Panchganga.

Pie Charts about Sewage Generation, Treatment & Untreated Sewage are given as below-

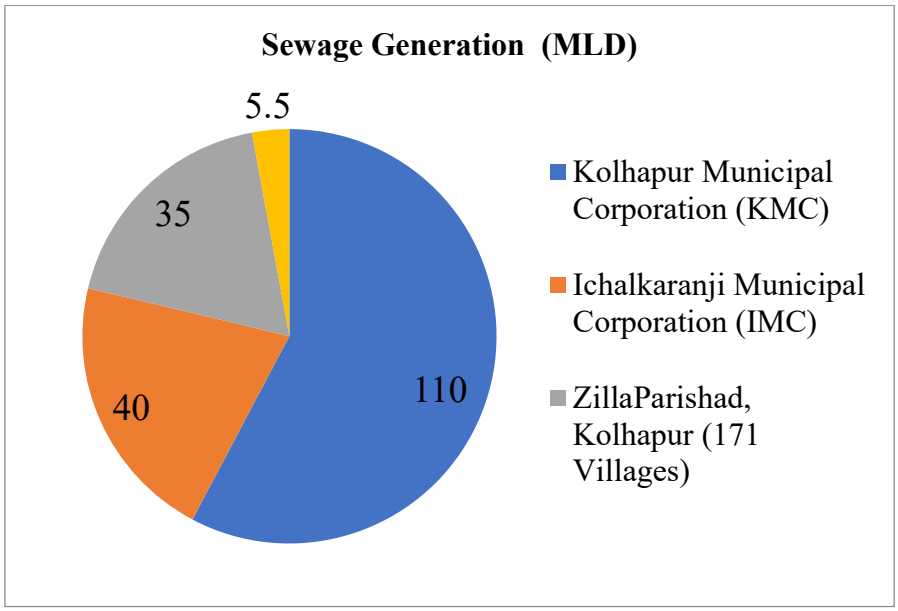


Figure-02 - Pie Chart about Sewage Generation

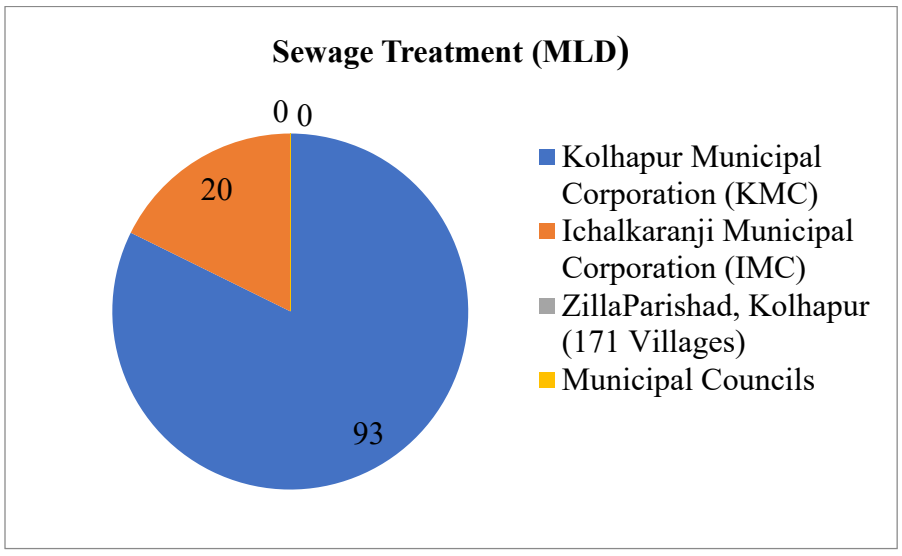


Figure-03- Pie Chart about Sewage Treatment

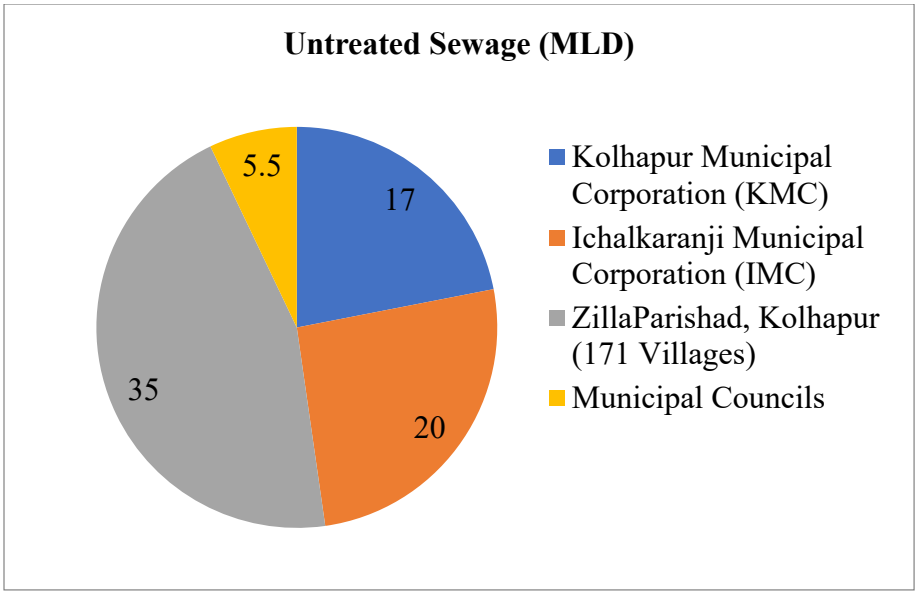


Figure-04- Pie Chart about Untreated Sewage

7.7.3 The treated sewage and untreated sewage from both the corporations are being discharged in to natural drains/Nallahs which meets with river Panchganga across the stretch at different locations. Treated sewage is to be used for the irrigation purpose as per CTO issued by MPCB, however, due to non-availability of land, non-requirement of water for irrigation during the monsoon, availability of fresh water in river Panchganga throughout the year with measures of irrigation department like construction of Kolhapur Type Bandhara, the treated sewage is not used to the extent for irrigation purpose. In season, other than monsoon, treated sewage might be used by few/some farmers. MPCB has not allowed or permitted as well as granted any consent to discharge sewage/effluent into river Panchganga or any surface water.

7.7.4 MPCB regularly visits Local bodies for verification of compliance of consent conditions including sampling as well as taking the follow up with local bodies for their compliance. Based on non-compliance observed, MPCB filed 04 of

cases before Hon'ble CJM/JMFC and taken actions viz. 02 -prosecution notices, 02- closure directions, 03- directions, 10 - proposed directions, 01- interim directions, 29 - show cause notices as well as levied environmental compensation of Rs. 7,71,40,000/-.

7.7.5 It is observed from the analysis results (Refer, **Table-01**) the concentration of BOD, COD, SS and Nitrogen as (Nitrate) at the Outlet of STP at Icahlkanjaji are not meeting with the discharge standards whereas the concentration of monitored parameters at the outlet of both the STPs in Kolhapur are meeting with the discharge standards.

7.7.6 In case of KMC, additional two STPs of capacity of 4 MLD and 6 MLD under Atal Mission for Rejuvenation and Urban Transformation (AMRUT) scheme of Ministry of Urban Development, Govt of India are under construction stage and expected to be completed in March 2023 and July 2023 respectively where as in case of IMC, additional STP of capacity 18MLD is proposed under Urban Infrastructure Development Scheme for Small & Medium Towns (UIDSSMT) scheme of Ministry of Urban Development, Govt of India. It is informed that the work of STP is expected to be completed in June 2024 and IMC also is in process to enhance old STP.

7.7.7 As a short-term measure, the traditional phyto remediation by way of plantation of Taro plants is required to be provided at various natural drains/nalhas with disinfection by mixing the bleaching powder or chlorine at various B*andharas* provided at natural drains/nalhas.

However, Phyto remediation is not provided by KMC as well as IMC. These corporations has provided arrangement for dosing of bleaching powder /chlorine gas for disinfection at some locations.

8.0 CURRENT STATUS OF TREATMENT AND UTLISATION/DISPOSAL OF SEWAGE IN KOLHAPUR IN COMPLIANCE WITH ORDER DTD 25/02/2021 IN O.A. 988/2018 (DR. BALKRISHNA A. SHELAR V/S STATE OF MAHARASHTRA)

8.1 The issue for consideration in this matter was the remedial action against pollution of River Panchganga in District Kolhapur, Maharashtra. Vide order dated 05.04.2019, after considering the report received from the Maharashtra Pollution Control Board (MPCB), showing failure of Municipal Corporation, the Tribunal directed further remedial steps to be taken to demarcate 'red zone' area and stopping polluting activities.

Subsequently, after various submissions/reports of Corporations, Irrigation Department, and MPCB, Hon'ble NGT vide order dated 25/02/2021 directed to furnish a joint status report by the Irrigation Department, the State PCB and the Municipal Corporation, Kolhapur (with Nodal Agency being the State PCB), as on 31.05.2021, to the Secretary, Environment, Maharashtra for such further remedial action as may be required, as per the directions of the said Secretary. The Secretary Environment may look into the report and ensure further remedial action, in the light of orders of this Tribunal or otherwise. The Secretary, Environment may forward the action taken report to the Secretary, Ministry of Jal Shakti, GoI, NMCG and CPCB.

It is mentioned in the para 8 of the aforesaid order- *"the pending work of demarcation of red and blue lines may be completed expeditiously, as earlier directed and further steps be taken for preventing discharge of untreated*

effluents and sewage. Further monitoring of compliance may be undertaken by the secretary, Environment, Maharashtra."

The copy of order dated 25.02.2021 is attached as **Annexure-9.**

8.2 In compliance with aforesaid order dated 25/02/2021, MPCB submitted a status report incorporating compliance of various activities towards sewage collection and treatment by KMC to Secretary, Environment Department, Govt of Maharashtra. Further, it is submitted to Ministry of Jalshakti, New Delhi.

8.3 The directions vide order dated 25/02/2021 of Hon'ble NGT in O.A. 988/2018 are partly complied but work of interception and diversion of remaining 6 Nallas is yet to be completed by Kolhapur Municipal Corporation and the same is in process under AMRUT scheme. It is informed that the works are expected to be completed in the year 2023. Presently, sewage generation is 110 MLD and KMC has provided 2 STPs i.e. STP (76 MLD) at Kasaba Bawada and STP (17 MLD) at Dudhali. Thus, total 93 MLD sewage (84.5 %) is being treated by KMC whereas 17 MLD (15.5 %) untreated sewage is discharged to Panchganga River through different drains. KMC is constructing additional two STPs of capacity of 4 MLD and 6 MLD under AMRUT scheme which is expected to be completed in March 2023 and July 2023 respectively. There is delay in commissioning of these STP's as per previous target date submitted by KMC. The Compliance report of KMC dated 11/11/2022 is attached herewith as an **Annexure-10**. Status of activities towards sewage collection and treatment at Kolhapur Municipal Corporation with present compliance is given in **Table-4.**

7.4 Regarding work of demarcation of red and blue lines, MPCB requested status from Irrigation Department vide email 14.11.2022. In response to this letter, Irrigation Department submitted compliance status report vide letter dated 17/11/2022 submitted by Executive Engineer, Kolhapur irrigation Division (North), Kolhapur. It is informed that department completed the work of demarcation of blue and red line in portion of Kolhapur City area as well as from PrayagChikali to Rukdi of Panchganga River for the total length 31.34 kms and all maps about the same are published on 03.06.2022 at site- www.wrd.maharashtra.gov.in. A copy of letter dated 17/11/2022 is attached herewith as an **Annexure -11.**

Table-4 **STATUS OF ACTIVITIES TOWARDS SEWAGE COLLECTION AND TREATMENT AT KOLHAPUR MUNICIPAL CORPORATION (WRT HON'BLE NGT MATTER- OA NO. 988/2018 (DR. BALKRISHNA A. SHELAR V/S STATE OF MAHARASHTRA) AS PER REPORT SUBMITTED BY KMC**

Sr. No.	Collection and Treatment Facility	Status Report (dated 04.06.2021) submitted by KMC as per order dtd 25/02/2021	Status Report (dated 11.11.2022) submitted by KMC as per order dtd 25/02/2021
1	76 MLD STP at Kasaba Bawada	STP is in operation.	STP is in operation.
2	17 MLD STP at Dudhali	STP is in operation.	STP is in operation.
3	JunaBudhawarNalla, CPR Nalla, Line Bazar Nalla and Bapat Camp Nalla	JunaBudhawar and CPR Nalla diverted to STP and presently sewage is carried through same to 76 MLD STP. Pumping station provided at Line Bazar & Bapat camp Nalla are in operation.	JunaBudhawar and CPR Nalla diverted to STP and presently sewage is carried through same to 76 MLD STP. Pumping station provided at Line Bazar &Bapat camp Nalla are in operation.
4	Upgradation of JayantiNalla Pumping station.	Provided 6 pumps, 2 pumps are in continuous operation, 2 pumps are kept as stand by and 2 pumps are readily stored in store.	Provided 6 pumps, 2 pumps are in continuous operation, 2 pumps are kept as stand by and 2 pumps are readily stored in store.
5	Interception and Diversion (I & D) of other remaining 6 Nallas	Work order for I & D work in given on date 24/10/2017, the execution of said work is in progress, but are yet to be completed. The details are as below- 1) Sewerage network for Dudhali Zone:- Out of 112.90 km drainage Pipe line 65 Km work is completed. And about 4936 Nos. of	1) Construction work of about 4936 Nos. of Manhole chambers and 1079 house service connections work is completed.

		Manhole chamber construction work is completed. 2) I & D of KasabaBawadaNalla:- Hydraulic design, RCC design & land acquisition is in process. 3) I & D of LakshtirthNalla:- 1200 mtrs. Nalla diversion is completed. 4) Vit Bhatti Nalla:- 570 mtrs. Nalla diversion is completed. 5) RajhaunsNalla:- 100 mtrs. Nalla diversion is completed and rising main work completed. 6) Raman MallaNalla:- 660 mtrs. Nalla diversion is completed. It is reported by KMC that due to Covid-19 Epidemic and rainy season the expected timeline for completion is delayed and now the work is expected to be completed up to December, 2021	2) <u>Incomplete-</u> Bottom slab of inlet, screen chamber, plaster work of chlorination tank, windows grill work of admin building, brick work of HT station/DG set/panel room is in progress. 3) <u>Incomplete-</u> 1457mtrs out of 1500mtrs diversion work is completed. 4) <u>Incomplete-</u> 570mtrs out of 960mtrs diversion work is completed. 5) <u>Incomplete-</u> 100mtrs out of 125mtrs diversion work is completed. 6) <u>Incomplete-</u> 122.5mtrs out of 250mtrs diversion work is completed.
6	Short term measures at remaining Nallas which are yet to be Intercepted and diverted.	1) Temporary stone Bandharas. 2) Removal of floating matters. 3) Wastewater Utilization for grassland. 4) Manual Bleaching powder dose. 5) Plantation of Taro plants by means of traditional phytoremediation at at remaining Nalla.	1) Temporary stone Bandharas. 2) Removal of floating matters. 3) Wastewater Utilization for grassland. 4) Manual Bleaching powder dose. *5)* Plantation of Taro plants by means of traditional phytoremediation at at remaining Nalla but presently not provided after flood in 2019.

9.0 STATUS OF DISCHARGE OF TRADE EFFLUENT AND COMPLIANCE BY THE INDUSTRIES WITH CTO CONDITIONS

9.1 INDUSTRIES LOCATED IN INDUSTRIAL AREAS/ESTATES & THEIR DISCHARGE OF EFFLUENT:

Major industrial estates in the catchment area of River Panchaganga which are developed by MIDC Viz Gokul Shirgaon, MIDC Shiroli MIDC and Kagal-Hatkanangale 5-Star Industrial Estate whereas there are other co-operative industrial estates Viz small cooperative Industrial estates in Ichalkaranji and Laxmi Cooperative Industrial estate at Tal. Hatkanangale which is adjacent to Ichalkaranji City.

The industries which are generating effluent i.e. textiles industries are located in Kagal- Hatkanangale 5-Star Industrial Estate, Ichalkaranji City and Laxmi Co-operative Industrial Estate whereas remaining industrial estates accommodates textiles weaving, foundry base, engineering or other units which are not generating the industrial effluent from there manufacturing activities.

CETPs are provided in aforesaid Industrial estate/areas viz Kagal- Hatkangale 5-Star Industrial Estate, Ichalkaranji City and Shri Laxmi Industrial Estate for the treatment of primary treated effluent from individual textile industries.

9.1.1 Common Effluent Treatment Plant (CETPs)

CETPs are provided for the treatment of primary treated effluent from member industries (textile industries) which are located in above industrial areas/ estates. There are three such CETPs in the area viz-

I. M/s Kagal- Hatkanangale Five Star CETP, MIDC, Kagal Hatkanangale, Dist. Kolhapur

II. M/s Ichalkaranji Textile Development Cluster Ltd. (1MLD) at Shri Laxmi Co-operative Industrial Estate, Ta- Hatkanangale, Dist – Kolhapur

III. M/s Ichalkaranji Textile C.E.T.P Ltd. (12MLD) Ichalkaranji

These CETPs are having primary, secondary and tertiary treatment. As per consents (CTO) issued to these CETPs, treated effluent is to be discharge on land for irrigation/HRTS (High Rate Transpiration System). HRTS with plantation of Nilgiri, Bamboo etc. is a land application system wherein the effluent is applied in especially designed field layouts with wide ridges and furrows. In ridges, trees are planted having much higher transpiration capacity, while wastewater is allowed to flow through the furrows.

9.1.2 VISITS & MONITORING OF CETPS:

Committee visited theses three CETPs and sampling at Inlet and Outlet of CETPs carried out during the visit as the industries discharge their primary treated effluent to CETP and CETP (after treatment) discharge treated effluent on land for the irrigation purpose/HRTS as specified in the respective CTOs of CETPs.

The analysis results are given in different **Table-5 (CETP-10 MLD), Table- 6 (CETP-01 MLD) & Table-7 (CETP-12 MLD).** The Analysis results of the CETP Monitoring carried out by MPCB (June 2022-Sept 2022) is given at **Annexure-12.**

A. M/S. KAGAL HATKLANGALE FICE STAR CETP (10 MLD), DIST-KOLHAPUR

I) CETP having capacity 10 MLD is situated in Kagal-Hatkanangale, five-star MIDC which was commissioned on 01/04/2008. There are 06 member industries connected to this CETP and all member industries have

installed primary and secondary effluent treatment plant and treated effluent is discharged into CETP through pipeline for further treatment. The CETP has obtained Consent to Operate (CTO) from MPCB which was valid up to 31/12/2022.

II) CETP consist of primary, secondary (Activated Sludge Process) and tertiary treatment. CETP comprises of collection tank, Equalization tank, primary settling tank, aerations tanks (diffused aeration), secondary settling tank, activated carbon filter and pressure sand filter, treated effluent holding tank, and decanters. The CETP provided online continuous Monitoring system with flow meter and the system is connected to MPCB and CPCB servers. The final treated effluent from the CETP discharge on land having HRTS (70 Acres) which is provided and operated/maintained by MIDC.

III) CETP was found operational during the visit on 19.10.2022. About 4 MLD of effluent is treated in CETP against capacity 10 MLD. The sampling carried out at Inlet and Outlet of CETP. Samples were also collected of the treated effluent being discharged on land having HRTS and from natural drain adjacent to HRTS where overflow of treated effluent with slight brown/yellowish colour was observed. The analysis results are given in **Table-05.**

As per the analysis results, the concentration of all the monitored parameters at the outlet of CETP and treated effluent being discharged on land for HRTS are within the discharge standards. The analysis results of sample collected from this natural drain called *Vit Bhatti Nala, Talandage* shows COD 40 mg/l and slight brown/yellowish which shows

contamination. However, there is accumulation of treated effluent and the adjacent natural drain /nallah called *Vit Bhatti Nala, Talandage* due to rains.

TABLE-05 ANALYSIS RESULTS OF SAMPLING CARRIED OUT

AT CETP- 10 MLD- FIVE STAR MIDC, KAGAL-HATKANGALE

Parameter	Inlet Standards	Outlet Standards	Inlet to CETP	Outlet of CETP	Treated effluent being discharged to HRTS	Nalla water near Vit Bhatti, Talandage downstream of HRTS
pH	5.5 - 9	6.0 to 9.0	7.9	8	8.1	8
BOD *	--	100	18	12	10	5.2
COD*	--	250	136	92	88	40
SS	--	100	17	37	27	18
O & G	20	10	BDL	BDL	BDL	BDL
TAN	50	NS	2.25	1.67	2.13	2.31
Cr (Hexavalent)	2	NS	BDL	BDL	BDL	BDL
Total Cr	2	--	BDL	BDL	BDL	BDL
Nickel	3	NS	BDL	BDL	BDL	BDL
Cadmium	1	NS	BDL	BDL	BDL	BDL
Chloride	--	1000	--	717.78	523.84	220.43
Copper	3	3	BDL	BDL	BDL	BDL
Lead	1	NS	BDL	BDL	BDL	BDL
Zinc	15	15	0.11	0.04	0.04	BDL
Mercury	0.01	NS	BDL	BDL	BDL	BDL
T. K. N.	--	NS	--	59.92	59.92	12.88
Arsenic	0.2	0.2	BDL	BDL	BDL	BDL
Fluoride	15	2	0.36	0.13	0.13	0.25
TDS	--	--	2972	2449	1589	1066

Note- All parameter are in mg/l except for pH

Note: In case of SSI unit, BOD of maximum of 800 mg/l and COD of maximum 2500 mg/l will be allowed to inlet of CETP. In case of MSI & LSI units, primary and secondary treatment is required to meet consented standards before disposal to CETP as per their respective consent conditions.

IV) HRTS is used since last 10 years, due to saturation of HRTS including improper percolation of applied treated effluent and rainy season which resulted into formation of two small ponds adjacent to HRTS. Overflow of these ponds observed into the nearby natural drain/nallah. In view of improper/inadequate HRTS, MPCB issued consent to member industries for 50 % recycle of their effluent in their respective industry and discharge the remaining 50 % effluent to CETP as well as directed CETP to operate with 5 MLD capacity. The HRTS system needs to be improved/revamped including its design considering of local soil and permeability and/or make available alternative land for discharge of treated effluent with new additional HRTS.

V) As per Consent, study of impact on soil and ground water quality twice a year (pre-monsoon & post monsoon) as per MoEF & CC Notification dated 01.01.2016 to be carried out, however, till date such studies were not carried out by CETP and reports are not submitted to MPCB.

B. M/s ICHALKARANJI TEXTILE DEVELOPMENT CLUSTER LTD. (01 MLD) AT SHRI LAXMI CO-OPERATIVE INDUSTRIAL ESTATE, HATKANANGALE, DIST – KOLHAPUR

I) CETP of capacity 1 MLD is situated at Plot No. 7 to 10, Phase-1, Shri Laxmi Co-operative Industrial Estate, Ta- Hatkanangale, Dist – Kolhapur. The CETP is commissioned on 31/12/2011. 4 member industries are connected with this CETP and member industries have installed the

primary effluent treatment plant in their industrial premises. The primary treated effluent is discharged into CETP through pipeline for further treatment. The CETP has obtained Consent to Operate (CTO) from MPCB which is valid up to 31/12/2024.

II) CETP consist of primary, secondary (Activated Sludge Process) and tertiary treatment. CETP comprises of collection tank, equalization tank, primary settling tank, aerations tanks (diffused aeration), secondary settling tank, Activated carbon filter and pressure sand filter, treated effluent storage pond with HDPE liner, sludge thickener and Decenter. The CETP provided online continuous Monitoring system with flow meter and the system is connected to MPCB and CPCB server.

III) As per CTO condition, the treated effluent to dispose on land for irrigation purpose only. The final treated effluent from the CETP is used for agricultural by having the bilateral agreement with farmers for 127Acres land and own agricultural land of 31Acres area.

IV) CETP was found operational during the visit on 21.10.2022. At present, 0.8MLD of effluent is treated in CETP. Effluent was being discharged on land for irrigation. The sampling carried out at Inlet and Outlet of CETP. Samples were also collected of the effluent being discharged on land for irrigation. The analysis results are given in **Table-06** as below.

As per the analysis results, the concentration of all the monitored parameters of the sample collected from Outlet of CETP are within the discharge standards except for chloride. However, the concentration of BOD, COD and Chloride i.e. 360 mg/L, 1152 mg/L and 1513.53 mg/L respectively in the sample of effluent being discharged on agricultural

land exceed the discharge standards i.e. BOD=100 mg/L, COD=250 mg/L and Chloride=1000 mg/L. Effluent which was being discharged was from Treated Effluent Storage Pond which shows that CETP previously stored effluent without adequate treatment and the same was being discharged without ensuring to meet discharge standards, this also reveals negligence and improper operation .

TABLE-06 ANALYSIS RESULTS OF SAMPLING CARRIED OUT AT M/S. ICHALKARANJI TEXTILE DEVELOPMENT CLUSTER LTD. (1 MLD)

Parameter	Inlet Standards	Outlet Standards	Inlet to CETP	Outlet of CETP *	Effluent being discharged to Agriculture Land from Treated Effluent Pond
pH	5.5 - 9	6.0 to 9.0	6.8	8.4	7.8
BOD *	--	100	330	22	**360**
COD*	--	250	1304	127.2	**1152**
SS	--	100	40	13	32
O & G	20	10	BDL	BDL	BDL
TAN	50	NS	0.95	0.82	1.4
Cr (Haxavalent)	2	NS	BDL	BDL	BDL
Total Cr	2	--	BDL	BDL	BDL
Nickel	3	NS	BDL	BDL	BDL
Cadmium	1	NS	BDL	BDL	BDL
Chloride	--	1000	--	**1491.54**	**1513.53**
Copper	3	3	0.25	BDL	0.15
Lead	1	NS	BDL	BDL	BDL
Zinc	15	15	0.11	0.06	0.09
Mercury	0.01	NS	BDL	BDL	BDL
T. K. N.	--	NS	--	12.32	75.6
Arsenic	0.2	NS	BDL	BDL	BDL
Fluoride	15	2	0.26	0.19	0.05
TDS	--	--	5110	5195	4884

Note- All parameter are in mg/l except for pH

Note:

#- treated effluent from outlet of CETP ie. After primary, secondary and tertiary (carbon & Sand Filtration unit) is pumped to Treated Effluent Storage Pond from which effluent is discharged to Agriculture Land for Irrigation purpose.

In case of SSI unit, BOD of maximum of 800 mg/l and COD of maximum 2500 mg/l will be allowed to inlet of CETP. In case of MSI & LSI units, primary and secondary treatment is required to meet consented standards before disposal to CETP as per their respective consent conditions.

V) CETP has proposed to upgrade existing CETP and accordingly acquired the land. CETP has submitted the proposal of up-gradation of existing 1MLD by providing Reverse Osmosis (RO) with Multiple Effect Evaporator (MEE) as tertiary treatment for achieving Zero Liquid Discharge (ZLD) and treated effluent shall be used in the process of member industries by providing pipeline network.

C. M/S ICHALKARANJI TEXTILE C.E.T.P LTD. (12MLD) ICHALKARANJI–

I) CETP of capacity of 12MLD is established in Lalnagar, Near Niramay Hospital, Ichalkaranji. CETP is commissioned on 01/07/2012. Total 68-member industries are members to this CETP. Member industries have installed primary effluent treatment plant and the primary treated effluent is discharged to CETP through pipeline for further treatment. CETP has obtained consent to operate (CTO) from MPCB which was valid up to 31/12/2022

II) CETP comprises of collection tank, equalization tank, primary settling tank, aerations tanks (diffused aeration), secondary settling tank, activated carbon filter and pressure sand filter, treated effluent storage tank, sludge thickener and Decenter. CETP provided Online Continuous Effluent Monitoring System

(OCEMS) with flow meter and the system is connected to MPCB and CPCB server.

III) As per CTO condition, the treated effluent to dispose on land for irrigation purpose only. Due to inadequate land availability for discharge of treated effluent, MPCB restricted the operational capacity up to 9 MLD. The present arrangement available for the use of treated effluent is around 250 acres of agriculture land and 60 acres of land for bamboo cultivation by having the bilateral agreement with farmers/land owners. However, this arrangement is also not adequate for present effluent discharge, and not workable in rainy season (monsoon).

IV) About 6-7 MLD of effluent is treated in CETP. CETP was found operational during the visit on 21.10.2022 and sampling carried out at Inlet, Outlet of CETP. The analysis results are given in **Table-07**, as below. As per the analysis results, the concentration of all the monitored parameters are within the discharge standards. During the visit, the treated effluent was being discharged into adjacent natural drain called *Kala Odha* though as per CTO condition, the treated effluent to dispose on land for irrigation purpose only. It is informed that the farmers were not taking treated water for their land due to rainy season.

TABLE-07 ANALYSIS RESULTS OF SAMPLING CARRIED OUT AT M/S. ICHALKARANJI TEXTILE CETP LTD. (12 MLD)

Parameter	Inlet Standards	Outlet Standards	Inlet	Outlet
pH	6 - 9	6.0 to 9.0	6.9	8.5
BOD *	--	100	520	26
COD*	--	250	1600	110
SS	--	100	17	15
O & G	20	10	BDL	BDL

TAN	50	50	1.1	1.58
Cr (Haxavalent)	2	0.1	BDL	BDL
Total Cr	2	--	BDL	BDL
Nickel	3	3	BDL	BDL
Cadmium	1	0.05	BDL	BDL
Chloride	--	NS	--	1003.69
Copper	3	3	0.12	0.15
Lead	1	0.1	BDL	BDL
Zinc	15	15	0.06	BDL
Mercury	0.01	0.01	BDL	BDL
T. K. N.	--	--	--	34.72
Arsenic	0.2	0.2	BDL	BDL
Fluoride	15	15	0.16	0.14
TDS	--	--	4419	3599

Note- All parameter are in mg/l except for pH

Note: In case of SSI unit, BOD of maximum of 800 mg/l and COD of maximum 2500 mg/l will be allowed to inlet of CETP. In case of MSI & LSI units, primary and secondary treatment is required to meet consented standards before disposal to CETP as per their respective consent conditions.

V. CETP has proposed to expand current capacity of CETP and in process to acquire the land and DPR of proposed up-gradation of existing 12MLD to 15 MLD CETP with low flux membrane bio reactor, high recovery reverse osmosis, brine concentration, brine recycle, five effect forced circulation evaporator, crystalliser and agitated thin film dryer for achieving Zero Liquid Discharge (ZLD) is submitted. CETP has proposed to provide the tertiary treatment facility and treated effluent shall be used in the process of member industries by providing pipeline network. It is submitted that the time required for completion of up-gradation work is February 2025. Consent to Establish (CTE) application submitted for said expansion with time bound schedule of ZLD of capacity of 15MLD.

9.1.3 Visit and Sampling at M/s Ichalkaranji Powerloom Mega Culture (IPMC)-

The industry is located in M/s Laxmi Co-op Industrial Estate and not a member of CETP (1 MLD). Industry engaged and obtained CTE for the production of sizing and warped yarn-25 MT/D, Dyed Yarn-4.0 MT/D, Processed fabrics-1,25,000 Mtrs/Day and captive Power-2.5 MW.

The drain passing nearby the industry, outside the industry premises, was noticed with coloured water. The aforesaid industry was visited by the committee on 21.11.2022. The industry was operational with some of the unit operations with less than 30 % capacity without obtaining CTO.

The industry has provided ETP which broadly consist of primary, secondary (Sequencing Batch Reactor) and tertiary treatment (RO System), with sludge thickener, decanters and treated effluent storage tank. Proposed capacity of the RO System and MEE were not installed as per submission of the industry and CTE condition. MPCB issued CTE with condition of 100 % recycle of treated effluent.

The sampling was carried out at Inlet and Outlet of ETP. The analysis results are given in **Table-08**, as below

TABLE-08 ANALYSIS RESULTS OF THE SAMPLING CARRIED OUT AT M/S IPMC

Sr. No.	Parameters	Prescribed Standards	Inlet of ETP	Outlet of ETP
1	pH	5.5 to 9	9.1	8.1
2	BOD	100 mg/l	18	3
3	COD	250 mg/l	116	20
4	Suspended Solid	100 mg/l	34	31

5	Oil & Grease	10 mg/l	BDL	BDL
6	Chloride	600 mg/l	751.77	6.55
7	Sulphate	1000 mg/l	336.30	3.41
8	Total Dissolved Solids	2100 mg/l	2409	59

It is informed that the treated effluent (RO permeate) is used in the plant for industrial/utility purpose. MEE is not installed for treatment of RO reject. There was no discharge of effluent observed outside the premises during the visit, however, the drain passing nearby was noticed with coloured water contaminated with the effluent. Sample collected from the aforesaid drain shows BOD-42 mg/l, COD-160 mg/l, SS: 46 mg/l, TDS: 753 mg/l. The industry might have earlier discharged effluent as additional RO and MEE for ZLD condition was not installed. Industry needs to obtain CTO for the operation of the industry. MPCB needs to take appropriate action for the above non-compliances.

9.1.4 MPCB carry out visit for verification of compliance consent conditions including sampling as well as continuously taking the follow up with CETPs for their compliance. Based on non-compliances observed and analysis results of sampling of all the CETPs and the member industries, MPCB has taken various actions in last 5 years viz. 01- prosecution notices, 50- closure directions, 07- directions, 73- proposed directions, 58- interim directions, 41- show cause notices for closure and 86- show cause notices as well as forfeited Bank Guarantee of Rs. 44,06,000/-.

9.2 INDUSTRIES NOT LOCATED IN INDUSTRIAL AREAS & THEIR DISCHARGE OF TRADE EFFLUENT–

Mostly sugar and distillery industries (08) which are scattered in Kolhapur Districts in the catchment area the River Panchganga. MPCB issued consents to Distillery industries with ZLD condition and to Sugar Industries with condition to discharge of treated effluent for irrigation use/agriculture use on their or land/premises or farmers land with bilateral agreements. These industries were not in operation due to non-crushing seasons, therefore not visited by committee. However, there are regular visits of MPCB.

10.0 WATER QUALITY OF RIVER PANCHAGANGA

10.1 Sampling locations & Analysis Results-

MPCB carry out monitoring of the River Panchganga once in every month under the National Water Monitoring Program (NWMP). The monitoring is carried out at four different locations along the stretch of River Panchaganga (U/s- Balinga Village to D/s Shirol Village) viz. L1: Balinga Village U/S of KMC, L2: NH-4 Bridge D/S of Kolhapur, L3: Ichalkaranji Ghat and L4: Shirol Village (D/s of stretch).

The results of MPCB sampling for the period of January-2022 to September - 2022 along with results of monitoring carried out during the committee visit (20.10.2022) are provided at **Annexure-13.** The maximum, minimum and average concentration of parameters for the four aforesaid locations are given in **Table-09**

Table- 09 Maximum, Minimum and Average Concentration of parameters for Stations-River Panchanganga

Location	Parameters	DO	pH	B.O.D	Nitrate - N	Ammonia-N	TC	FC
L1: Balinga, U/S of KMC	Max	7.3	8.7	2.2	2.76	0.4	27	13
	Min	5.7	7.1	1.8	0.47	0.4	13	1.8

	Avg	**6.66**	**7.59**	**1.9**	**1.629**	**0.4**	**18.4**	**5.5**
L2: NH-4 Bridge D/S KMC	Max	7.1	8	2.4	2.82	0.4	32	6.1
	Min	5	7	1.8	0.4	0.4	17	5.5
	Avg	**6.25**	**7.53**	**2.04**	**1.574**	**0.4**	**22.5**	**5.77**
L3: Ichalkaranji Ghat.	Max	7.2	8.2	2.6	5.9	0.4	38	6.8
	Min	4.9	6.9	1.8	1.22	0.4	17	3.6
	Avg	**6.08**	**7.54**	**2.12**	**2.331**	**0.4**	**25.3**	**5.71**
L4: Shirol.	Max	7.3	8.1	2.4	4.37	0.4	38	8.2
	Min	5	7.1	1.4	0.3	0.4	20	5.6
	Avg	**6.44**	**7.75**	**1.94**	**2.086**	**0.4**	**25.1**	**6.22**

Note-The parameters Dissolved Oxygen, BOD, Nitrate, Ammonia-N are expressed in mg/L, Total Coliform, Fecal Coliform are expressed in (MPN)/100 mL

10.2 Best Designated Use- As per CPCB Criteria

It is observed from the above **Table-09** that the water quality meets the criteria for Best Designated Use i.e. Outdoor bathing (Organised) (class of water-B) and Drinking water source after conventional treatment and disinfection (Class of water- C). The water quality criteria for applicable Best Designated Use are given in following **Table-10**, as below-

Table- 10 Water Quality Criteria (CPCB)

Designated-Best-Use	Class of water	Criteria
Outdoor bathing (Organized)	B	• Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more • Biochemical Oxygen Demand 5 days 20^0c 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	• Total Coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more

		• Biochemical Oxygen Demand 5 days 20^{o} C 3mg/l or less

Source- Link- https://cpcb.nic.in/water-quality-criteria/

10.3 Status of River Panchganga as per Reports of CPCB on Polluted River Stretches (PRS):

As per the report *"River Stretches for Restoration Of Water Quality"* of September, 2018 published by CPCB, the stretch "Shirol To Kolhapur" of the River Panchnagna, Kolhapur was in the list of Polluted River Stretches. The **above PRS was categorized as Priority-V** (BOD-3- 6mg/l) as BOD observed in the range of 3.2-5.8 mg/L (for the river monitoring carried out in 2016 & 2017 under NWQMN/NWMP). The report is available on link-
https://cpcb.nic.in/wqm/PollutedStretches-2018.pdf

Further, as per the report *"Polluted River Stretches for Restoration of Water Quality- 2022"* published by CPCB, the stretch "Shirol to Kolhapur" of the River Panchaganga, Kolhapur was removed from the list of polluted river stretches based on observed improvement in the monitored data during 2019 & 2021. The report is available on link-
https://cpcb.nic.in/openpdffile.php?id=UmVwb3J0RmlsZXMvMTQ5NF8xNjcxNzc3ODg2X21lZGlhcGhvdG8xODc0Ni5wZGY=

Its shows that there is improvement in the water quality of the Polluted River Stretch (PRS) "Shirol to Kolhapur" of the River Panchaganga, Kolhapur and therefore removed from the list of Polluted River Stretches based on observed improvement in the monitored data during 2019 & 2021.

11.0 ACTION TAKEN BY MPCB

MPCB has taken various actions against the polluters in the catchment of river Panchganga from time to time under the Water (Prevention & Control of Pollution Act), 1974 and the Air (Prevention & Control of Pollution Act), 1981. The details of action taken is given in Table-11 as below-

Table-11 DETAILS OF ACTION TAKEN BY MPCB

Sr. no.	Local Bodies/CETP/ Industries	Court Cases/ Prosecutions	Bank Guarantee Forfeited (in lakhs)	Prosecution Notice	Closure Directions	Directions	Proposed Directions	Interim Directions	Show Cause Notice for Closure	Show Cause Notice
1	Kolhapur Municipal Corporation	03	--	02	02	02	04	-	-	16
2	Ichalkaranji Municipal Corporation	01	--	-	-	01	06	01	-	10
3	Zilla Parishad/ Gram Panchayat	-	--	-	-	-	-	-	-	03
4	Sugar Factories and Distilleries	03	119.9	-	07	02	04	02	05	20
5	Ichalkaranji Textile C.E.T.P Ltd. (12MLD) Ichalkaranji	-	2.0	-	-	01	03	02	01	04
	Member Industries	-	12.25	-	37	-	59	44	32	62
6	Kagal-Hatkanangale Five Star CETP, Kagal, Kolhapur	-	-	01	-	-	02	01	01	01
	Member Industries	-	30.0	-	-	06	08	06	06	14
7	Ichalkaranji Textile Development Cluster Ltd.(1MLD) Hatkanangale	-	2.0	-	02	-	01	01	01	02
	Member Industries	-	1.75	-	11	-	-	--	04	03
TOTAL		**07**	**163.97**	**03**	**59**	**12**	**87**	**57**	**50**	**135**

11.1 DETAILS OF CASES FILED BY MPCB AGAINST POLLUTERS BEFORE HON'BLE CJM & JMFC

MPCB under the provisions of the Water (Prevention & Control of Pollution Act), 1974 and the Air (Prevention & Control of Pollution Act), 1981, has filed various prosecutions cases before the Chief Judicial Magistrate (CJM) and Court of Judicial Magistrate of First Class in respect of pollution of river Panchganga at Kolhapur. Details of cases pending before the Hon'ble CJM/JMFC in respect of pollution of river Panchganga at Kolhapur are given in **Table-12.**

TABLE-12 DETAILS OF CASES PENDING BEFORE THE HON'BLE CJM/JMFC

Sr. No.	Cause Title	Cause of Action	Current status
1	R.C.C. No. 220/2004 MPCB V/s Kolhapur Municipal Corporation	Complaint filed under provisions of Water Act for violation of consent conditions and polluting river Panchganga thereby.	Evidence Before Charge
2	R.C.C. No. 768/2004 MPCB V/s Kolhapur Municipal Corporation	Complaint filed under provisions of Water Act for violation of consent conditions and polluting river Panchganga thereby.	Evidence Before Charge
3	R.C.C. No. 255/2019 MPCB V/s Kolhapur Municipal Corporation	Complaint filed under provisions of Water Act for violation of consent conditions and polluting river Panchganga thereby.	Framing of Charge
4	R.C.C. No. 203/2018 MPCB V/s Ichalkaranji Municipal Council	Complaint filed under provisions of Water Act for violation of consent conditions and polluting river Panchganga thereby.	Evidence Before Charge
5	R.C.C. No. 160/2004 MPCB V/s Dr. D. Y. Patil Sahakari Sakhar Karkhana Ltd. Aslaj	Complaint filed under provisions of Water Act for excess crushing and thereby violating consent conditions.	Stayed by Hon'ble Bombay High Court
6	R.C.C. No. 132/2018 MPCB V/s Renuka Sahakari Sakhar Karkhana Ltd. Ichalkaranji	Complaint filed under provisions of Water Act, EP Act and EIA Notification for excess crushing and thereby violating consent conditions and EC rules	Arguments
7	R.C.C. No. 244/2018	Complaint filed under provisions of Water Act for excess crushing and thereby violating consent conditions.	Arguments

	MPCB V/s Jawahar Shetkari Sahakari Sakhar Karkhana Ltd. Hupari		

11.2 APPLICATIONS BEFORE HON'BLE NGT IN RESPECT OF POLLUTION OF PANCHGANGA RIVER

There are 04 Applications including present matter OA NO. 563 of 2022 are filed in Hon'ble NGT. The details are given in **Table-13.**

TABLE-13. DETAILS OF APPLICATIONS BEFORE HON'BLE NGT

Sr. No.	Title	Cause of Action	Current status
1	O.A. 02/2022 Mr.Tanaji Ruikar V/s Kolhapur Municipal Corporation	Subhash Store Workshop of Kolhapur Municipal Corporation running without CTE & CTO thereby causing water pollution in Panchganga River	Disposed by directing KMC to deposit Environment Compensation for restoration of river Panchganga.
2	O.A. 102/2021 Mr. Tanaji Ruikar V/s Kolhapur Municipal Corporation	Operation of slaughterhouse at R. S. No. 46/4K, Bapat Camp, Opposite Shri Shahu Market Yard, E-Ward, Taluka Karveer, Kolhapur without obtaining any valid Consent to Operate from MPCB and other violations.	For final Hearing
3	O.A. 988/2018 Dr. Balkrishna Shelar V/s State of Maharashtra	Remedial action against pollution of river Panchganga.	Disposed on 25/02/2021 with directions.

11.3 CASE PENDING BEFORE HON'BLE BOMBAY HIGH COURT IN RESPECT OF POLLUTION OF PANCHGANGA RIVER-

Sr. No.	Cause Title	Cause of Action	Current status
1	PIL 183/2012	Pollution of river Panchganga and precautionary measures to be taken.	Pending for compliance of interim directions and recommendations of NEERI vide order dated 10/11/2014

PIL No. 183/2012 pending before Hon'ble High Court of Judicature at Bombay, Civil Appellate Jurisdiction –

Shri Dattatray Hari Mane has filed a PIL 183/2012 (Dattatray Hari Mane & Ors. V/s State of Maharashtra & Ors.) before Hon'ble High Court regarding pollution of river Panchganga. the Hon'ble High Court vide its order dated 10/11/2014 observed that the main reason for pollution of river Panchganga as stated by NEERI, is the inadequate domestic wastewater treatment facilities in the cities of Kolhapur & Ichalkaranji and other areas. The Hon'ble Bombay High Court vide its order dated 06/12/2013 in the aforesaid PIL, appointed NEERI to make a study on all relevant issues regarding the pollution in river Panchganga and directed to submit a comprehensive report on all issues relating to the pollution in river Panchganga, identify the causes for the same, suggest remedial measures and opine whether the present projects being undertaken by the authorities have sufficient capacity and technical capability to meet the requirements projected by the Kolhapur Municipal Corporation and Ichalkaranji Municipal Council and the requirements stipulated by the MPCB and applicable statutory norms. Also directed that the report must indicate all factors that are contributing to the pollution. A copy of order dated 10/11/2014 is annexed herewith as an **Annexure- 14**.

According to the directives of Hon'ble High court, NEERI submitted the report on 20.12.2014. The aforesaid study report contains recommendations which deal with flow and flows into river Panchganga, functioning of wastewater treatment systems, industrial wastewater management practices, weeds and sanitation issues and introduction of Environment Management systems (EMS) through Public Process for protection of river Panchganga and Health of population.

Further, the Hon'ble High Court vide its order pronounced on 10.11.2014 directed Divisional Commissioner, Pune for constitution of committee headed by him as its Chairman.

The committee constituted to monitor the implementation of the recommendations of NEERI as well as the implementation of various interim directions issued by Hon'ble Court from time to time.

The committee dieted to

- call for periodical reports from all concerned Respondents on implementation of the directions issued by Hon'ble High Court from time to time.
- to submit Quarterly reports to Hon'ble Court as regards the implementation of the orders of this Court as well as the recommendations of the NEERI.
- to make its own suggestions on all the aspects.

The committee consist of following members apart from the Chairman:

(a) The Commissioner of the Kolhapur Municipal Corporation;

(b) The Collector of the District Kolhapur;

(c) The Chief Officer of Ichalkaranji Municipal Council;

(d) An appropriate officer of higher level nominated by the MPCB

(e) The Chief Executive Officer of Zilla Parishad, Kolhapur;

(f) A representative of NEERI to be nominated by NEERI;

(g) An expert in the field appointed by the Divisional Commissioner after consulting the Petitioners and the fourth and fifth Respondents.

(h) such other persons as may be nominated by the Divisional Commissioner.

Compliance of Order-

As per the directions of the Hon'ble High Court, the committee was constituted vide office order dated 26.11.2014. Also as per the directions of Hon'ble High Court MPCB officials regularly carrying the routine visits and verification of local bodies, CETPs with member industries, Sugar Factories, Distilleries and other industries situated in the catchment area of river Panchganga, as well as regularly meetings of committee are being conducted under the Chairmanship of Divisional Commissioner, Pune/ District Collector, Kolhapur and accordingly regularly reports are being submitted. A copy of office order dated 26.11.2014 is attached herewith as an **Annexure- 15.**

It is informed that 31 quarterly reports submitted to Hon'ble High Court through Divisional Commissioner, Pune.

12.0 CONCUSSIONS

12.1 The incidents of Fish Kill occurred in the month of January 2022 on 19.01.2022 and again in the month of February 2022 on 22.02.2022 in the river Panchganga at Kasaba bawada, Kolhapur.

12.1.1 The officials of the MPCB, and the Committee constituted by the MPCB (for monitoring of Panchganga river pollution prevention and control) under the Chairmanship of District Collector including representative of KMC, Jilha Parishad Kolhapur, MIDC, Municipal Council Ichalkanaji, MPCB officials etc visited the fish kill location and area along the nearby river stretch. It was observed that in the upstream of fish kill location, there was accidental discharge of treated effluent from air valve fitted on pipeline carrying treated effluent from Sugar industry- M/s Shri Chhatrapati Rajaram Sahakari Sakhar Karkhana Ltd. Kasaba

Bawada, Kolhapur to agriculture farms for the discharge on land for irrigation. Also, there was discharges of treated (from STP-76 MLD and 17 MLD) and untreated sewage through various natural drains/nallahas in the up-stream of the fish kill location. MPCB issued Show Cause Notice (SCN) on 19.01.2022 under Section- 33 A of the Water (P & CP) Act, 1974 to Kolhapur Municipal Corporation and aforesaid sugar industry regarding the fish kill incident occurred due to pollution.

12.1.2 After second fish kill incident, MPCB officials visited various locations including fish kill location along the River Panchganga on 22.02.2022 to 01.03.2022 and it was observed on 01.03.2022 that there was again discharge of effluent due to leakage of air valve fitted on pipeline carrying treated effluent from aforesaid Sugar industry from 19.02.2022 and it was also observed on 01.03.2022 that effluent was observed entering into the river Panchnganga (Near Ulape Farm) through underground pipeline and there was improper operation of ETP.

Based on the visit report including analysis results, MPCB issued Closure directions on 03.03.2022 under Section- 33 A of the Water (P & CP) Act, 1974 to aforesaid sugar industry and directed concern authorities to disconnect water and electricity supply of the said industry. Based on aforesaid closure direction, the industry stopped its manufacturing activity on 04.03.2022 as well as concerned authority disconnected electricity on 15.03.2022. Further MPCB revoked closure direction based on the improvement/compliance of closure direction.

12.1.3 This committee visited the aforesaid sugar industry on 20.10.2022 and observed that the industry was not in operation due to non-crushing season and carried out improvement in compliance to closure direction issued by the MPCB such as air valve/pipeline improvement, ETP improvement, stopping of leakages.

12.1.4 Fisheries Department are giving permission for fish farming by inviting tenders in stretches of river Panchganga. However, impact assessment of fishing farming on water quality is not carried out before giving permission, and also there is need to properly regulate/monitored these activities in respect of water quality, feeding to fishes, fish catching process etc. MPCB received various complaints regarding unscientific fish catching procedure carried out by the contractor/fisherman in the area who got tenders for fish farming. In such cases, fish kill due to un-scientific/banned process for fish catching also cannot be ruled out. Therefore, there is need to study commercial Fish Farming in River Panchganga through reputed institute like CIFRI by Fisheries Department in respect of seeding, farming, catching, water quality, size/depth of river, flow in river etc and come out with SOP by Fishery Department.

12.2 Status of Sewage Generation, Treatment and Disposal:

12.2.1 Total 190.5 MLD sewage is generated from local bodies, out of which 113 MLD (59 %) is treated in STPs at Kolhapur (93 MLD) & Ichalkaranji (20 MLD) and 77.5 MLD (41 %) not treated i.e. Kolhapur (17 MLD), Ichalkaranji (20 MLD), Councils (5.5 MLD) and Villages (35 MLD). There is no treatment facility i.e. STPs provided for the Councils and villages and inadequate in terms of collection and treatment of sewage at Kolhapur and Ichalkaranji. Septic tanks/Soak pits are provided by

individual house owners/societies which treats sewage partially. However, Overflow from Septic tanks/Soak pits are discharged either on land which percolates in land or in natural drains/Nallahs which ultimately meets with river Panchganga.

12.2.2 The treated sewage and untreated sewage from both the corporations are being discharged in to natural drains/Nallahs which meets with river Panchganga across the stretch at different locations. Treated sewage is to be used for the irrigation purpose as per CTO issued by MPCB, however, due to non-availability of land, non-requirement of water for irrigation during the monsoon, availability of fresh water in river Panchganga throughout the year with measures of irrigation department like construction of Kolhapur Type Bandhara, the treated sewage is not used to the extent for irrigation purpose. In season, other than monsoon, treated sewage might be used by few/some farmers.

12.2.3 It is observed from the analysis results of sampling carried out at STPs, the concentration of BOD, COD, SS and Nitrogen as (Nitrate) at the Outlet of STP at Ichalkaranji are not meeting with the discharge standards and also the STP operational without CTO. The concentration of monitored parameters at the outlet of both the STPs in Kolhapur are meeting with the discharge standards.

12.2.4 Natural drains/Nallah sampling were also carried out during the committee visit. It is observed from the analysis results that drain water is contaminated and these drains carrying treated & untreated sewage/ treated effluent from CETP (12 MLD-Ichalkaranji and 01 MLD Laxmi Industrial Estate)/ effluent from few industries, as per location

specific observations mentioned earlier. The discharges are not permitted as per Consents issued by MPCB.

12.2.5 As a short-term measure, the traditional Phyto-remediation by way of plantation of Taro plants is required to be provided at various natural drains/nallas with disinfection by mixing the bleaching powder or chlorine gas at various B*andharas* provided at natural drains/nallas. However, Phyto remediation is not provided by KMC as well as IMC. These corporations have provided arrangement for dosing of bleaching powder /chlorine gas for disinfection at some locations.

12.3 Compliance of Order Dtd 25/02/2021 In O.A. 988/2018 (Dr. Balkrishna A. Shelar V/S State Of Maharashtra),

12.3.1 The directions vide order dated 25/02/2021 of Hon'ble NGT KMC are partly complied with the orders. The work of interception and diversion of remaining 6 Nallahs is yet to be completed by Kolhapur Municipal Corporation. The construction of additional two STPs (4 MLD and 6 MLD) still not completed and KMC has not submitted any plan for the treatment of remaining 7 MLD and completion of sewerage network.

12.3.2 In compliance with aforesaid order dated 25.02.2021, MPCB submitted a status report incorporating compliance of various activities towards sewage collection and treatment by KMC to Secretary, Environment Department, Govt of Maharashtra which is further submitted to Ministry of Jalshakti, New Delhi.

12.3.3 Executive Engineer, Kolhapur irrigation Division (North), Kolhapur informed that department completed the work of demarcation of blue and red line in portion of Kolhapur City area as well as from PrayagChikali to Rukdi of Panchganga River for the total length 31.34

kms and all maps about the same are published on 03.06.2022 at site- www.wrd.maharashtra.gov.in.

12.4 Status of discharge of trade effluent and compliance by the industries with CTO conditions.

12.4.1 Major industrial estates in the catchment area of River Panchaganga which are developed by MIDC viz Gokul Shirgan MIDC, Siroli MIDC and Kagal- Hatkangale 5-Star Industrial Estate whereas there are other co-operative industrial estates viz small cooperative Industrial estates in Ichalkaranji and Laxmi Cooperative Industrial estate at Tal. Hatkanangale. The industries which are generating effluent i.e. textiles industries are located in Kagal- Hatkanangale 5-Star Industrial Estate, Ichalkaranji City and Shri Laxmi Industrial Estate.

12.4.2 CETPs are provided in aforesaid Industrial estate/areas viz Kagal-Hatkanangale 5-Star Industrial Estate (10 MLD), Ichalkaranji City (12 MLD) and Shri Laxmi Industrial Estate (01 MLD) for the treatment of primary treated effluent from these individual textile industries. CETPs are provided for the treatment of primary treated effluent from member industries (textile industries) which are located in above industrial areas/ estates. These CETPs are having primary, secondary and tertiary treatment. As per consents (CTO) issued to these CETPs, treated effluent is to be discharge on land for irrigation/for High Rate Transpiration System (HRTS-concept developed by NEERI, Nagpur) with plantation of Nilgiri, Bamboo etc.

12.4.3 Committee visited theses three CETPs and sampling at Inlet and Outlet of CETPs carried out during the visit as the industries discharge their primary treated effluent to CETP and CETP (after treatment) discharge

treated effluent on land for the irrigation purpose/for HRTS as specified in the respective CTOs of CETPs

A. **As per the analysis results, in case of CETP (10 MLD) at Five Star MIDC Kagal-Hatkanangale,** the concentration of all the monitored parameters at the outlet of CETP and treated effluent being discharged on land for HRTS are within the discharge standards. There is accumulation of treated effluent in the HRTS and overflow into the adjacent natural drain /nallah called *Vit Bhatti Nala, Talandage* due to rains before the visit. The analysis results of sample collected from the aforesaid natural drain *shows* COD-40 mg/l and slight brown/yellowish which shows contamination.

   In view of improper/inadequate HRTS, MPCB issued consent to member industries for 50 % recycle of their effluent in their respective industry and discharge the remaining 50 % effluent to CETP as well as directed CETP to operate with 5 MLD capacity. As HRTS is used since 10 and there may be saturation of HRTS including improper percolation of applied treated effluent, the HRTS system needs to be improved/revamped including its design considering of local soil and permeability and/or make available alternative land for discharge of treated effluent with new additional HRTS.

B. **As per the analysis results, in case of CETP (1 MLD) Laxmi Co-op Ind Estate Tal-Hatkanangale,** the concentration of all the monitored parameters of the sample collected from Outlet of CETP are within the discharge standards except for chloride. However, the concentration of BOD, COD and Chloride in the sample of effluent being discharged on agricultural land exceed the discharge standards. Effluent which was being discharged was from Treated Effluent Storage Pond which

shows that CETP previously stored effluent without adequate treatment and the same was being discharged without ensuring to meet discharge standards, this reveals negligence and improper operation .

C. **As per the analysis results, in case of CETP (12 MLD) Ichalkaranji**, the concentration of all the monitored parameters are within the discharge standards. During the visit, the treated effluent was being discharged into adjacent natural drain called *Kala Odha* though as per CTO condition, the treated effluent to dispose on land for irrigation purpose only. It is informed that the farmers were not taking treated water for their land due to rainy season. Due to inadequate land availability for discharge of treated effluent, MPCB restricted the operational capacity up to 9 MLD. The present arrangement available for the use of treated effluent is also not adequate for present effluent discharge, and not workable in rainy season (monsoon).

12.4.4 CETPs (1 MLD and 12 MLD) have proposed to upgrade existing CETP and accordingly acquired the land. These CETPs have also submitted the proposals (with time target) of up-gradation with tertiary treatment like Reverse Osmosis (RO) with Multiple Effetc Evaporator (MEE) with accessories as tertiary treatment for achieving Zero Liquid Discharge (ZLD) and treated effluent shall be used in the process of member industries by providing pipeline network. CETP (12 MLD) also submitted Consent to Establish (CTE) application submitted for said expansion with time bound schedule of ZLD of capacity of 15MLD.

12.4.5 M/s Ichalkaranji Powerloom Mega Culture (IPMC)-Textile industry is located in Laxmi Co-op Industrial Estate and not a member of CETP (1 MLD). The drain passing nearby the industry, outside the industry

premises, was noticed with coloured water. The aforesaid industry was visited by the committee on 21.11.2022. It was observed that the industry was operational without obtaining CTO, provided ETP which broadly consist of primary, secondary and tertiary treatment (RO System). RO System (Proposed capacity) and MEE were not installed as per submission of the industry and CTE condition. MPCB issued CTE with condition of 100 % recycle of treated effluent ETP was operational and outlet sample meets with discharge standards. There was no discharge of effluent observed outside the premises during the visit. Sample collected from the aforesaid drain shows BOD-42 mg/l, COD-160 mg/l. The industry might have earlier discharged effluent in the aforesaid drain as additional RO and MEE for ZLD condition was not installed. Industry needs to obtain CTO for the operation of the industry. MPCB needs to take appropriate action for the above non-compliances.

12.4.5 Industries Not Located in Industrial Areas & Their Discharge of Trade Effluent–

Mostly sugar and distillery industries (08) which are scattered in Kolhapur Districts in the catchment area the River Panchganga. MPCB issued consents to Distillery industries with ZLD condition and to Sugar Industries with condition to discharge of treated effluent for irrigation use/agriculture use on their or land/premises or farmers land with bilateral agreements. These industries were not in operation due to non-crushing seasons, therefore not visited by committee. However, there are regular visits of MPCB.

12.5 Existing water quality of River Panchganga at relevant locations.

12.5.1 MPCB carry out monitoring of the River Panchganga once in every month under the National Water Monitoring Program (NWMP). The monitoring is carried out at four different locations along the stretch of River Panchaganga.

12.5.2 It is observed from the results of MPCB sampling (January-2022 to September - 2022 along with results of monitoring carried out during the committee visit (20.10.2022)) that the Water Quality Meets the Criteria (CPCB) for Best Designated Use i.e. Outdoor Bathing (Organized) (Class of water-B) and Drinking water source after conventional treatment and disinfection (Class of water- C).

12.5.3 As per the report *"River Stretches for Restoration Of Water Quality"* of September, 2018 published by CPCB, the stretch "Shirol To Kolhapur" of the River Panchnagna, Kolhapur was in the list of Polluted River Stretches. The **above PRS was categorized as Priority-V** (BOD-3-6mg/l) as BOD observed in the range of 3.2-5.8 mg/L (for the river monitoring carried out in 2016 & 2017 under NWQMN/NWMP). Further, as per the report *"Polluted River Stretches for Restoration of Water Quality- 2022"* published by CPCB, the stretch "Shirol to Kolhapur" of the River Panchnagna, Kolhapur was removed from the list of polluted river stretches based on observed improvement in the water quality as per monitored data during 2019 & 2021.

12.6 ACTION TAKEN BY MPCB

12.6.1 MPCB has taken various actions against the polluters in the catchment of river Panchaganga viz Forfeiture of Bank Guarantee, Prosecution Notice, Closure Directions, Proposed Directions, Interim Directions, Show Cause Notice for Closure, Show Cause Notice as detailed in

Table-11, **para 11.0** above from time to time under the Water (Prevention & Control of Pollution Act), 1974 and the Air (Prevention & Control of Pollution Act), 1981.

12.6.2 MPCB has filed seven prosecutions cases (3- KMC, 1-IMC and 3- Sugar industries) (as detailed in **Table.12, para 11.1 above** before the Chief Judicial Magistrate (CJM) and Court of Judicial Magistrate of First Class in respect of pollution of river Panchganga at Kolhapur.

12.7 Applications before Hon'ble NGT in Respect of Pollution in Panchganga River

04 Applications including present matter OA NO. 563 of 2022 are filed in Hon'ble NGT in respect of Pollution in Panchganga River as detailed in **Table-13.**

12.8 PIL No. 183/2012 pending before Hon'ble High Court of Judicature at Bombay, Civil Appellate Jurisdiction –PIL related to pollution of river Panchganga

12.8.1 The matter of pollution in river Panchganga is already pending before the Hon'ble High Court of Judicature at Bombay, Civil Appellate Jurisdiction through PIL No. 183/2012 (Shri Dattatray Hari Mane & Ors. V/s State of Maharashtra & Ors.). The Committee constituted, by Hon'ble High Court under the Chairmanship of Division Commissioner, Pune to monitor the implementation of recommendations of the NEERI & implementations of interim directions of the Hon'ble Court, submitting the quarterly reports as regards the implementation of the orders of the Court as well as recommendations of the NEERI which has filed its report on 20.12.2024, as per to Hon'ble High Court dated 06.12.2013.

The committee consist of Commissioners of the Kolhapur Municipal Corporation, Ichalkaranji Municipal Corporations, Collector Kolhapur; CEO Zilha Parishad, Kolhapur, officer of MPCB, representative of NEERI, an expert in the field appointed by the Divisional Commissioner after consulting the Petitioners and the fourth and fifth Respondents; other person nominated by the Divisional Commissioner.

12.8.2 The aforesaid NEERI report includes recommendations which deal with flow into river Panchganga, functioning of wastewater treatment systems, industrial wastewater management practices, weeds and sanitation issues and introduction of Environment Management systems (EMS) through Public Process for protection of river Panchganga and Health of population.

12.8.2 Also as per the directions of Hon'ble High Court, MPCB officials regularly carrying the routine visits and verification of local bodies, CETPs with member industries, Sugar Factories, Distilleries and other industries situated in the catchment area of river Panchganga, as well as regularly meetings of committee are being conducted under the Chairmanship of Divisional Commissioner, Pune/ District Collector, Kolhapur and accordingly regularly reports are being submitted. It is informed that 31 quarterly reports submitted to Hon'ble High Court through Divisional Commissioner, Pune.

13.0 RECOMMENDATIONS:

In view of the above observations and conclusions, the committee recommended the following-

13.1 The corporations (KMC & IMC) may be asked to expedite the works of STPs which are under constructions, remaining work of interception of natural drains and provide sewerage network to reaming area and sewage treatment to cover 100 % sewage collection and its treatment. Action plan for the coverage of remaining area for 100 % sewage collection network and treatment may be provided to MPCB.

13.2 IMC should immediately obtain CTO for 20 MLD STP which is operational without CTO since 1998. MPCB should take appropriate action against IMC including penalty/ levying and recovery of Environmental Compensation.

13.3 Environmental Compensation as per orders in the matter- Original Application No. 673/2018 related to News item published in "The Hindu" authored by Shri Jacob Koshy Titled “More river stretches are now critically polluted: CPCB” (order dtd 06.12.2019) w.r.t. drains carrying untreated sewage, functioning of STPs etc, may be levied and recovered from Corporations (KMC, IMC) and other local bodies in the area.

13.4 CETP- M/s Ichalkaranji Textile Development Cluster Ltd. (01 MLD) -Shri Laxmi Co-Operative Industrial Estate, shall ensure to discharge the treated effluent only after meeting with discharge standards. MPCB shall take actions against non-compliance of discharge standards for the effluent which was being discharged on agriculture land during the Committee visit on 21.10.2022. The pipelines used for conveyance of effluent shall be over ground with proper demarcation for identification.

13.5 CETPs (M/s Ichalkaranji Textile Development Cluster Ltd. (1MLD) at Shri Laxmi Co-operative Industrial Estate, Ta-Hatkanangale and M/s Ichalkaranji Textile C.E.T.P Ltd. (12MLD) Ichalkaranji shall expedite their proposals towards achieving ZLD due to non-availability of adequate land

for discharge of treated effluent for irrigation as per CTO condition, non-requirement of water for irrigation during the monsoon in such cases treated effluent ultimately finds its way into river Panchganga.

13.6 CETP (10 MLD)-M/s Kagal-Hatkangale Five Star CETP, MIDC, Kagal Hatkangale, shall improved/revamped HRTS including its design considering of local soil and permeability, saturation over the years and/or make available alternative land for discharge of treated effluent with new additional HRTS.

13.7 All CETPs shall submit report of study of impact on soil and ground water quality twice a year (pre-monsoon & post monsoon) as per MoEF & CC Notification dated 01.01.2016 to MPCB.

13.8 M/s Ichalkaranji Powerloom Mega Culture (IPMC), Laxmi Co-op Industrial Estate, Ta- Hatkangale shall provide full flagged RO and MEE as mentioned in CTE. MPCB may take apocopate action for non-compliances such as operation of industry without CTO and discharge of effluent into nearby drain.

13.9 Pipelines used by CETPs/Industries for the conveyance of treated effluent for disposal for land irrigation should be periodically checked in respect of leakages by the CETPs/concerned industry through certified engineers and submit to Directorate of Industrial Safety & Health (DISH) and MPCB.

13.10 Expert institute like Central Inland Fisheries Research Institute (CIFRI) may be engaged or Committee with expert members form Fisheries Department, Environment department, Govt of Maharashtra, Irrigation Department, MPCB, CIFRI may be constituted to investigate fish kill incidents, if any, in future and find out the root cause of fish kill which are generally occurring in in particular month/area.

13.11 Investigation may be conducted in respect of fish kill also due to un-scientific/banned process for fish catching. The study may be carried out for practice/procedure of commercial Fish Farming in River Panchganga through reputed institute like CIFRI by Fisheries Department in respect of seeding, farming, catching, water quality, size/depth of river, flow in river etc. and come out with SOP by Fishery Department.

13.12 Kolhapur Type Weir (*Bandhara*) creates a stagnant water in the river along the stretch when there is lean flow though it is good for the other uses of water including irrigation. This affects water quality due to accumulation of pollutants/stagnation of water over a period of time particularly in summer season and may cause fish kill. Therefore, Environment flow should be maintained in the river by Irrigation Department in consultation with other concerned departments.

13.13 On-line Continues River Quality Monitoring Station may be installed at appropriate locations and data should be share with MCPCB, Fisheries Department and Irrigation Department.

---ooxxoo---

Annexure - 1

74

Item No. 02 Court No. 1

BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

(By Video Conferencing)

Original Application No. 563/2022

Vrinda Basu Applicant

Versus

State of Maharashtra Respondent

Date of hearing: 30.08.2022

CORAM: HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON
HON'BLE MR. JUSTICE SUDHIR AGARWAL, JUDICIAL MEMBER
HON'BLE PROF. A. SENTHIL VEL, EXPERT MEMBER

ORDER

1. Grievance in this Application is against failure to take remedial action against pollution of River Panchganga at Ichalkaranji in District Kolhapur, Maharashtra. The applicant has relied upon media report in 'Times of India' dated March 03, 2022 titled 'Ichalkarnji stops lifting water from Panchganga'. The report mentions that contamination of the river has resulted in death of the fish which are floating in water. Foul smell has spread along the river side as the dead fish have not been removed. Sewage from the city and 39 river side villages, apart from pollutants from sugar factory and chemical mixed drainage water, is directly flowing into Panchganga, resulting in dropping of oxygen level in the river water.

2. Having regard to the above averments, it appears necessary to ascertain the factual position by constituting a joint Committee of CPCB, State PCB and District Magistrate, Kohlapur. The Committee may

undertake visit to the site and furnish a factual and action taken report in the mater within two months 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. The report may inter alia provide factual position on quantity of sewage being discharged into river Panchganga directly or through other modes by rural and urban areas. Status of discharge of trade effluent and compliance by the industries may also be mentioned with CTO conditions. Current status on treatment and utilization/disposal of sewage in Kolhapur in compliance with order dated 25.02.2021 in *OA No. 988/2018, Dr. Balkrishna A. Shelar v. State of Maharashtra* may also be mentioned. The existing water quality of river Panchganga at relevant locations may also be furnished.

List for further consideration on 05.12.2022.

A copy of this order be forwarded to the CPCB, State PCB and District Magistrate, Kolhapur by email for compliance.

Adarsh Kumar Goel, CP

Sudhir Agarwal, JM

Prof. A. Senthil Vel, EM

August 30, 2022
Original Application No.563/2022
AB

Annexure- 2

76 65479/2022/LAW-RD (Pune)

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010437/24020781/24014701
Fax: 24023516/24024068/24044531
Website: www.mpcb.gov.in

Kalpataru Point, 2nd - 4th Floor
Opp. Cine Planet Cinema,
Near Sion Circle, Sion (E)
Mumbai- 400 022.

Your Service is our duty

NO. MPCB/JD(WPC)/B-220914-FTS-0170 Date:-14/09/2022

OFFICE ORDER

Sub: Constitution of Committee to ascertain position in respect of the issues raised by the Applicant regarding pollution of Panchganga River in OA No 563 of 2022 filed by Vrinda Basu Vs State of Maharashtra and Others

Ref: Order dated 30/8/2022 passed by Hon'ble NGT in Original Application No. 563 of 2022 filed by Vrinda Basu Vs. State of Maharashtra and Others.

.....

Vrinda Basu has filed an Original Application bearing No 563 of 2022 against State of Maharashtra and Others, before the Hon'ble National Green Tribunal, regarding the pollution of Panchgaga River. The Applicant has relied on media report in "Times of India" dated 3.3.2022, which states that contamination of river has resulted in death of fish which are floating in water.

In order to ascertain the factual position of pollution of Panchganga River, the Hon'ble NGT has constituted joint committee vide order dated 30/8/2022 consisting of the following members :-

1. District Magistrate, Dist- Kolhapur — Member
2. Representative of Central Pollution Control Board, Pune — Member
3. J S Salunke, Regional Officer, MPCB Kolhapur. — Member

The terms of reference of the Committee are as under:

a) The Committee shall undertake visit to the site and furnish a factual and action taken report in the matter within two months 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.
b) The report shall provide factual position of quantity of sewage being discharged into river Panchganga directly or through other modes by rural and urban areas.
c) The Status of discharge of trade effluent and compliance by the industries may also be mentioned with CTO conditions.
d) The committee shall submit the status on treatment and utilization/ disposal of sewage in Kolhapur in compliance with order dated 25.02.2021 in OA No 988/2018, Dr. Balkrishna A. Shelar v. State of Maharashtra may also be mentioned.
e) The existing water quality of river Panchganga at relevant locations may also be furnished.

(Ashok Shingare, IAS)
Member Secretary

Copy f.w.cs to: -

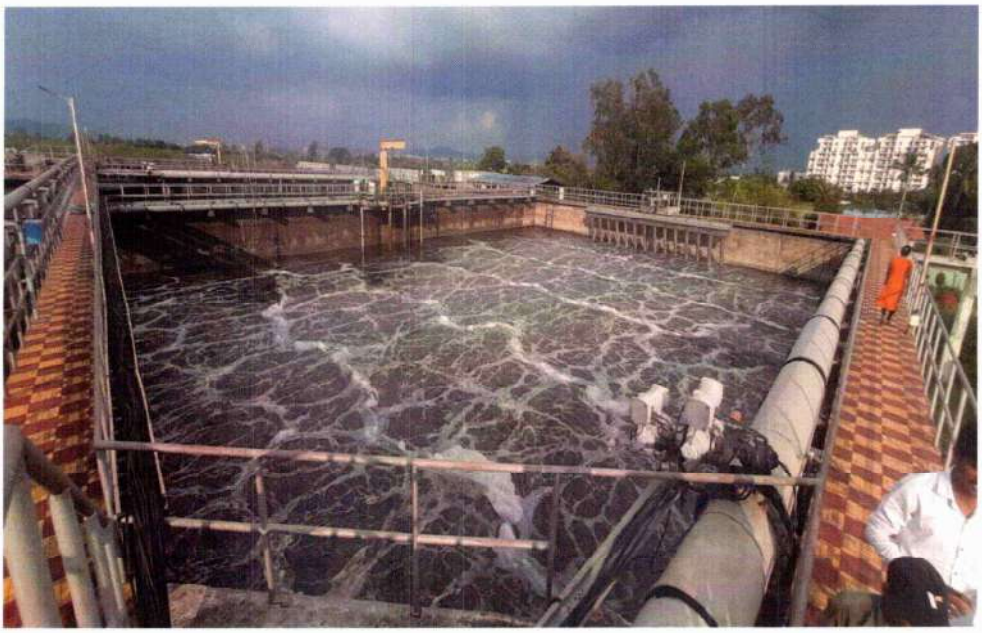
1. District Collector, Kolhapur- for information.
2. Regional Director, Central Pollution Control Board, Pune
3. Mr J S Salunke,Regional Officer, MPCB, Kolhapur.- He is directed to co-ordinate with the committee and ensure compliance.

Copy to: JD(WPC)/ Law officer (P&L Divn.II), MPCB, Mumbai- for information and necessary action.

Annexure-3

Photographs taken during the NGT committee visit dated 19.10.2022 to 21.10.2022

M/s. Kolhapur Municipal Corporation (STP-17 MLD), Dudhali, Kolhapur.



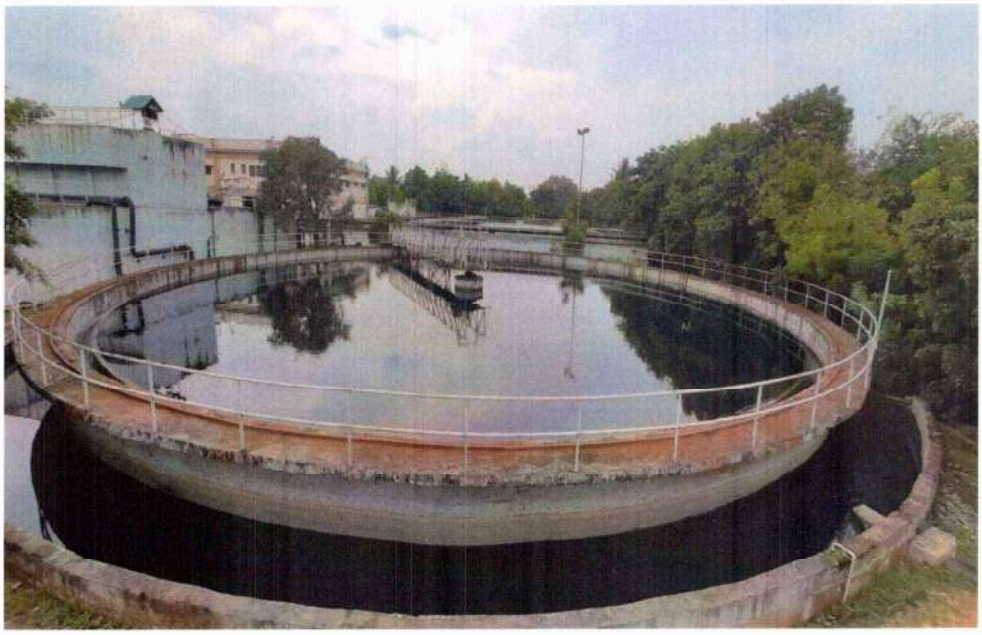
M/s. Kolhapur Municipal Corporation (STP-76 MLD), KasabaBawada, Kolhapur.

KagalHatkanangale C.E.T.P (M/s. SMS Infrastructure Ltd.) 10 MLD

Land for irrigation by adopting High Rate Transpiration System(HRTS)-KagalHatkanangale C.E.T.P

M/s. Ichalkaranji Textile Development Cluster Ltd.(1 MLD) CETP

Disposal On land through pipeline for Irrigation- M/s. Ichalkaranji Textile Development Cluster Ltd.(1 MLD) CETP



M/s. Ichalkaranji Municipal Council, 20 MLD (STP)

Tilawaniodha

Gandhinagar Valiwadenala with further meets river Panchganga

Nala Beside of M/s. IPMC

Dudhali nala

MAHARASHTRA POLLUTION CONTROL BOARD
REGIONAL OFFICE, KOLHAPUR.

Tel. No. (0231) 2652952,
2660448
Fax No. (0231) 2652952
E-mail:
rokolhapur@mpcb.gov.in

Udyog Bhavan,
Near Collector Office,
Kolhapur - 416 003.
Website:http://mpcb.mah.nic.in

No. MPCB/RO/KOP/CD/ 0276/22 Date:03/03/2022

To,
M/s. Shri Chhatrapati Rajaram SSK Ltd.
R.S. No. 69/70/1, 70/2, 70/3, 70/4, 70/5,
A/p. Kasaba Bawada, Tal. Karveer,
Dist-Kolhapur.

Sub: Closure Direction u/s 33A of Water (Prevention & Control of Pollution) Act, 1974, 31 A of Air (Prevention & Control of Pollution) Act, 1981 and under the Hazardous Waste (M & TM) Rules, 2008 as amended.

Ref:
1. Consent granted by the Board.
2. SCN for Closure Directions issued by the Board dated 25.01.2022.
3. Reply submitted by you vide letter dated 05.02.2022.
4. Complaint received from " E Ward Lok kalyan & Sangharsh Samiti Kolhapur. Dated 25.02.2022, 26.02.2022 & 28.02.2022.
5. Visit of Board officials to your unit dated 19.02.2022, 21.02.2022, 24.02.2022 & 01.03.2022.
6. Personal Hearing extended on 03.03.2022.
7. Reply submitted by you during the Personal Hearing dated 03.03.2022.
8. Approval received from competent authority.

.....

WHEREAS you are operating your industry in 'Pollution Prevention Area' declared under Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981 & Hazardous Waste (M & TM) Rules, 2008 as amended.

AND WHEREAS it was obligatory on your part to obtain valid consent from the Board and to provide adequate water and air pollution control devices, so as to prevent any sort of pollution in the surrounding area and to achieve the standards laid down under the provision of Environment (Protection) Act 1986.

AND WHEREAS, your treated water/ effluent pipeline for irrigation was observed leakaged for several times. The JVS analysis Results dated 22.02.2022 of Nalla Water sample located near pipeline leakage was exceeding the consented parameters such as COD 708.8 and there was a fish kill incidence of Panchaganga river at Survey Bandhara, Valiwade and there were regular complaints as per ref no. (4).

AND WHEREAS, Board Officials of this office visited your sugar industry on 01.03.2022 for investigation of fish kill incidence and observed following non compliances.

1. You have provided ash storage tanks in the ETP premises and ash from the same was observed lying in the ETP premises.
2. You have provided 8 inches fresh river water pipeline in the ETP premises which was observed mixing in the final treated tank and clarifier (2) outlet for the purpose of dilution of the treated effluent which was further supplied to the farmers for irrigation purpose.

3. You have provided one valve adjacent to the fresh water pipeline after O & G trap.
4. Your final treated overflow tank was observed with O & G layer & plastic floating material.
5. MLSS observed in aeration tank was very poor during the visit.
6. During visit the effluent from the Online Monitoring Machine was drained and introduced with the effluent from treated tank and observed that the parameters such as COD and BOD were exceeded as 769 and 386 respectively.
7. At the pumping station of your industry you have provided one chamber with underground pipeline. The effluent with smell and colour as that of sugar effluent was observed entering into the river Panchaganga (Near Ulape Farm) through underground pipeline.
8. The JVS analysis results dated 06.01.2022 are exceeding the consented parameters.
9. The online monitoring Results after changing the probe effluent with the treated tank effluent and the JVS analysis results of nalla water sample located near pipeline leakage seems to be same as COD is 769 and 708.8 respectively. Also the JVS analysis Results exceeds the consented norms such as COD collected on 01/03/2022 from secondary clarifier, ETP treated tank and the discharge through the chamber near water lifting pumping station of your industry.
10. Reply submitted by you during the Personal Hearing was not accepted.

AND WHEREAS after examining the record of your case, reports of officers of the Board & making necessary enquiries, I am satisfied that you are causing Environmental Pollution problems in the surrounding area and knowingly & willfully causing grave injury to the environment thereby violating various Environment enactments.

NOW, THEREFORE in exercise of the powers conferred upon me under Section 33A of the Water (Prevention & Control of Pollution) Act, 1974 & 31A of the Air (Prevention & Control of Pollution) Act, 1981, I, Ravindra Andhale, Regional Officer of the Board at Kolhapur hereby direct you to stop the manufacturing activity forthwith (within 48 hours) to avoid further damage to the surrounding environment and inform the same to this office immediately. The competent authorities are directed to disconnect the water/electricity supply to your unit immediately, which may please be noted.

FOR AND ON BEHALF OF THE BOARD

(Ravindra Andhale)
Regional Officer,
Maharashtra Pollution Control Board, Kolhapur.

Copy for information & necessary action:

1. The Superintending Engineer, MSECD Division, Kolhapur.
2. Executive Engineer, Irrigation Department, Karveer, Tal. Karveer, Dist. Kolhapur.
   -They are directed to disconnect electricity supply/water supply of aforesaid unit Immediately till further orders, and report the compliance

(Ravindra Andhale)
Regional Officer,
Maharashtra Pollution Control Board, Kolhapur

Copy submitted for favour of information to:

1. The Member Secretary, M.P.C. Board, Mumbai.
2. Joint Director (WPC), M.P.C. Board, Mumbai.
3. The District Magistrate, Kolhapur.

Copy for information:
Law Officer, M.P.C. Board, Mumbai.

Copy to:
Sub-Regional Officer, M.P.C. Board, Kolhapur.
- He is directed to serve the direction to the industry, M.S.E.D. Co. Ltd. and water supply Division & keep vigil & report the compliance accordingly.

Annexure-5

90

SHRI CHHATRAPATI RAJARAM SAHAKARI SAKHAR KARKHANA LTD.

Kasaba Bavada, Tal-Karveer, Dist-Kolhapur - 416 006 (MAHARASHTRA)
Phone : 0231-3500300 To 3500306 E-mail - rajaram.karkhana05@gmail.com
Regd.No.:KPR/KVR/PRG (A) 2(S) / 83-84 Date : 11-4-1984

CRSSK/ETP/2021-22/1948 **Date: 04.03.2022**

To,
The Regional Officer,
Maharashtra Pollution Control Board,
Kolhapur
Email - rokolhapur@mpcb.gov.in

Sub :- Closure Direction u/s 33A of Water (Prevention & Control of Pollution) Act, 1974, 31 A of Air (Prevention & Control of Pollution) Act, 1981 and under the Hazardous Waste (M & TM) Rules, 2008 as amended

Ref :- Your Directions Bearing No.MPCB/RO/KOP/CD/0273/22, Dated 03-03-2022 received by E-mail

Re/Sir,

With reference to your subject cited above we would like to submit before you as follows :

1. **Your E-mail under reference is seen by us today i.e. on 04-03-2022 @ 10.00 am after opening of our Office.**
2. **As directed, we are obeying your Closure Directions and voluntarily closing our cane crushing operations within next 48 hours.**
3. **Further, we would like to bring to your kind notice that ours is a processing industry and hence, the process material i.e. cane, juice, syrup, molasses already under processing in between the pipelines and reactors requires to be processed for which needs next 4 to 5 days are required. If we stop all the processing operations suddenly then all the material lying in the pipelines, clarifier, evaporators, pans, crystallizers etc. will get damaged and all the machineries will get adversely affected there by becoming out of order as well as the partly processed material may cause serious environmental issue. Hence, we may please be allowed to process the material within 4 to 5 days for which required water and electrical supply may kindly be continued.**
4. **You will find that after completion of above activities, all the manufacturing operations of our factory will be close down.**
5. **Further, you are aware that we are supplying treated water to the cane cultivators of village Nagaon during season and we requires to supply fresh water by lifting it from the river Panchganga during off season. In this village round about 80 to 90 acres land is under cane cultivation and the crop standing in this land requires to supply water continuously upto rainy season. These farmers are members of our society who are very small and poor land holders. They have converted their barren land into cultivating land only because we have guaranteed them to supply the water continuously by entering into an agreement. Hence, it is essential to keep the water supply continuously for which the operations of the lift irrigation scheme requires to be continued for that electrical & water supply may kindly be continued by informing to the concerned authorities of MSECD Division, Kolhapur and Irrigation Department, Kolhapur. If we do not supply water supply continuously, whole standing crop will get damaged and they will suffer irreparable financial losses. Similarly, this will be create unrest among them and the possibility of emerging social problems hence request.**

SHRI CHHATRAPATI RAJARAM SAHAKARI SAKHAR KARKHANA LTD.
Kasaba Bavada, Tal-Karveer, Dist-Kolhapur - 416 006 (MAHARASHTRA)
Phone : 0231-3500300 To 3500306 E-mail - rajaram.karkhana05@gmail.com
Regd.No.:KPR/KVR/PRG (A) 2(S) / 83-84 Date : 11-4-1984

6. We are having 3 molasses storage tanks in which we store the produced molasses. During the summer season temperature of the environment rises and hence we requires to continue circulation process as well as water cooling process failure of which there is a possibility of auto-combustion in the molasses tanks leading to disastrous situation.
7. Similarly as per the release mechanism, Govt. of India allots us free sale sugar quota every month which we have to sale out within the stipulated period. In addition to this as per the OGL Export Policy of Govt. of India, we have entered in to an agreement with the sugar exporter for supply of sugar which we have to deliver the said quantity also in time. For this sugar delivery purpose, power supply is required.
8. Lastly we would like to mention here that we are going to comply all your directions mentioned in the said order and till entire compliance is done as per statutory requirements and verification of same by your office, we will not resume our manufacturing operations.

Taking into consideration above facts and figures kindly allow us as mentioned above. For this act of kindness we will be oblige to you.

Thanking you,

Yours faithfully,

PChitnis

(Prakash J.Chitnis)
MANAGING DIRECTOR

Copies submitted to :

1. Hon.Member Secretary,
   M.P.C. Board, Kalpataru Point,
   3rd and 4th floor, Opp.PVR Cinema,
   Sion Circle, Mumbai – 400 022
   Email – portalsupport@mpcb.gov.in
2. Hon.District Collector, Kolhapur
3. Hon.Joint Director,
   M.P.C. Board, Kalpataru Point,
   3rd and 4th floor, Opp.PVR Cinema,
   Sion Circle, Mumbai – 400 022
   Email – jdwater@mpcb.gov.in
4. The Sub Regional Officer,
   M.P.C. Board, Udyog Bhavan, Kolhapur
   Email- srokolhapur@mpcb.gov.in
5. The Superintendent Engineer,
   MSEC Division, Kolhapur
6. The Executive Engineer,
   Irrigation Department, Kolhapur

Request for needful actions please as mentioned above.

PChitnis

(Prakash J.Chitnis)
MANAGING DIRECTOR

Cc to – ETP / M.F.

(820)

SHRI CHHATRAPATI RAJARAM SAHAKARI SAKHAR KARKHANA LTD.

Kasaba Bavada, Tal-Karveer, Dist-Kolhapur - 416 006 (MAHARASHTRA)
Phone : 0231-3500300 To 3500306 E-mail - rajaram.karkhana05@gmail.com
Regd.No.:KPR/KVR/PRG (A) 2(S) / 83-84 Date : 11-4-1984

CRSSK/ADMN/40/2021-22/ 1962 **Date : 5/03/2022**

Reg A.D

To
The Chief Director (Sugar)
Ministry of Food and Civil Supplies,
Department of Food,
Krishi Bhavan,
New Delhi 110001

Respected Sir,

CRUSHING OPERATIONS OF OUR KARKHANA FOR THE SEASON 2021-22 STOPPED ON 4 Th MARCH, 2022 AT 09.00 P.M.

Thanking you.

Your's faithfully,

PChitnis

(P.J.CHITNIS)
MANAGING DIRECTOR,
Sh.Chh.Rajaram Sah.Sakhar Karkhanna Ltd.,
Kasaba Bavada, Kolhapur-

Copy submitted to :

1) **The Director of Sugar (Development) (M.S.) and Licensing Authority, Commissionr of Sugar, Sakhar Sankul] Shivajinagar, Pune- 411006**

Copy forwarded with compliments and for favour of information :-

1) **The Regional Jount Director, (Sugar) 1216, C Ward, Saroj Apartment, Laxmipuri, KOLHAPUR**

2) **The Managing Director' Kolhapur Dist. Central Co.Op.Bank Ltd., H.O.Office, Shahupuri, Kolhapur**

3) **The Member Secretary, Maharashtra Pollution Control Board, Opp.Cineplanet, Near Sion Circle, Sion East, Mumbai 400022**

4) **The Regional Officer, Maharashtra Pollution control Board, Near Collector Office, Udyog Bhavan,Kolhapur 416003**

5) **The Managing Director, Maharashtra Rajya Sah.Sakhar Karkhana Sangh Ltd. Sakhar Bhavan, 11th floor, Nariman Point,Mumbai**

Copy : MFG/ENG/ADMN/MG

G:\Dept\admin\Season End 2021-22 documents.doc

MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd

Maharashtra State Electricity Distribution Co. Ltd.
Government of Maharashtra Undertaking
(CIN :- 40109MH2005SGC153645)

स्वातंत्र्याचा अमृत महोत्सव

Office of The Superintending Engineer,
Vidyut Bhavan, 1st floor, Tarabai Park,
Kolhapur, 416003
Tel No : 2650581 & 84
Email : sekolhapur2013@gmail.com
sekolhapur@mahadiscom.in
Web : www.mahadiscom.in

No/SE(KC)/Tech/DyEE-1 / No 1781 Date : 10 MAR 2022

To,
M/s. Shri Chhatrapati Rajaram SSk Ltd,
R.S No.69/70/1, 70/2, 70/3, 70/4, 70/5,
A/p. Kasaba Bawada, Tal. Karveer,
Dist: Kolhapur.

श्री.छ.राजाराम सह.साखर कारखाना लि. का।। बावडा
आवक क्र.- 3626
दिनांक 15 MAR 2022

Sub: - Disconnection of electricity supply as per Maharashtra Pollution Control Board's notice dated 03.03.2022

Ref: - MPCB's Notice No. MPCB/RO/KOP/CD0276/22 Dated 03.03.2022

With reference to subject noted above, you are informed that, you are High Tension & Low tension consumer of MSEDCL. It seems vide letter under reference that you have failed to comply requisite directives of Maharashtra Pollution Control Board issued under provisions of Section 33 A of Water (Prevention & Control of Pollution) Act, 1974 and 31A of Air (Prevention & Control of Pollution) Act 1981 and under the Hazardous Waste (M & TM) Rules, 2008.

Accordingly, Regional Officer, Kolhapur, vide letter under reference (received to this office on dtd 08.03.2022) has directed MSEDCL under provisions of Section 33 A of Water (Prevention & Control of Pollution) Act, 1974 and 31A of Air (Prevention & Control of Pollution) Act 1981 and under the Hazardous Waste (M & TM) Rules, 2008 to disconnect your electricity supply.

In lieu of above, this notice is served up on you that the electricity supply of your premises is liable to disconnect & will be disconnected after 24 hours from the receipt of this notice or at any time thereafter without any further notice to that effect.

In case your industry requires safe closure time more than notice period, the same needs to be intimated immediately to Maharashtra Pollution Control Board separately along with valid documents and necessary permission should be obtained from Maharashtra Pollution Control Board Office, but before the expiry of notice period given.

Env. copy

Encl: - As above

10/3/22
Superintending Engineer
Kolhapur
10/03/22 10/3/22

Copy s.w.r.t.
1. Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 2nd -4th floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai 400 022.

Copy to
1. Regional Officer, Maharashtra Pollution Control Board, Udyog Bhavan Building, Near Collectorate Office, Kolhapur - 416 002
2. Executive Engineer, O&M Urban Division, Kolhapur.
   He is instructed to monitor the time period and take necessary action at his end to disconnect the supply in consent with this office.

14739 5.27 pm

Reply all | Delete | Junk | Block sender | ...

Disconnection of M/S Shri Chhatrapati Rajaram SSK Ltd. Cons No (266519100011)

S

sekolhapur@mahadiscom.in
<sekolhapur2013@gmail.com>
Wed 3/16/2022 2:51 PM
To: RO Kolhapur

In connection to the notice served by your good office vide MPCB/RO/KOP/CD/0276/22 dtd 03.03.2022 to M/S Shri Chhatrapati Rajaram SSK Ltd. under intimation to this office for disconnection of Power supply, this office has disconnected the Power supply of the said consumer Cons No (266519100011) temporarily as on 15.03.2022.

--
Regards
Superintending Engineer(KC)
1st Floor, Vidyut Bhavan,
Tarabai Park, Kolhapur-416 003.
Phone: Office (0231) 2650581 to 84
Fax: (0231) 2656316
e-mail : sekolhapur@mahadiscom.in <sekolhapur@mahadiscom.in>
Web-Site : www.mahadiscom.in

Reply | Forward

MAHARASHTRA POLLUTION CONTROL BOARD
REGIONAL OFFICE, KOLHAPUR.

Tel. No. (0231) 2652952, 2660448 Fax No. (0231) 2652952. E-mail: rokolhapur@yahoo.com	"Your Service is Our Duty"	Udyog Bhavan, Near Collector Office, Kolhapur - 416 003. Website:http://mpcb.mah.nic.in

MPCB/RESTART/ 2209280002 Date: 28/09/2022

To,
M/s. SHRI CHHATRAPATI RAJARAM SAHAKARI SAKHAR KARKHANA LMT.
A/p. Kasaba Bawada,
Tal. Karveer, Dist. Kolhapur.

Sub: Conditional Direction u/s 33A of Water (Prevention & Control of Pollution) Act, 1974, 31 A of Air (Prevention & Control of Pollution) Act, 1981 Directions under section 5 of Environmental (Protection Act) 1986.

Ref:
1. Closure Directions issued by the Board dated 03/03/2022
2. Request letter for restart from the industry dated 07.07.2022.
3. Visit of Board Officials dated 26.07.2022.
4. Proposal submitted by SRO Kolhapur.
5. Approval received from competent authority dated 15.09.2022.

.....

We refer to the Closure Directions dated 03.03.2022 issued u/s 33A of Water (Prevention & Control of Pollution) Act, 1974, 31 A of Air (Prevention & Control of Pollution) Act, 1981 and under the Hazardous Waste (M & TM) Rules, 2008 as amended. We also refer your request letter dated 07.07.2022 to grant permission to restart manufacturing activity and the approval received from competent authority dated 15.09.2022.

In view of steps taken by you, and approval received from competent authorities, you are allowed to restart your manufacturing activities subject to the following conditions :-

1. Industry shall upgrade the existing Effluent Treatment Plant and continuously operate the same round o'clock so that to achieve the treated effluent parameters to the consented standards.
2. Industry shall not discharge any type of Industrial or domestic effluent directly or indirectly in to nearby nalla/ river and make sure that it shall be strictly used for irrigation.
3. Industry shall also take all precautionary measures to prevent any leakages or accidental discharge from any pipeline used for disposal of treated/ untreated effluent.
4. Industry shall submit the Bank Guarantee of Rs. 200000/- in favour of Regional Office, Maharashtra Pollution Control Board, Kolhapur valid for one year within 15 days for the compliance of above directions.

These Directions are issued under the powers confirmed upon me by the Board under section 33A of Water (Prevention & Control of Pollution) Act, 1974 & 31 A of Air (Prevention & Control of Pollution) Act, 1981 with approval of competent authority. These directions shall be scrupulously follow otherwise Board will have no options than to initiate stringent action including forfeiture of BG and issuance of final Directions which may please be noted.

This is issued with approval of competent authority.

FOR AND ON BEHALF OF THE BOARD

28.09.22

(J. S. Salunkhe)
Regional Officer,
Maharashtra Pollution Control Board

Copy for information & necessary action:

1. The Superintending Engineer, MSEDCL Co. Ltd., Kolhapur.
2. Executive Engineer, Irrigation Department, Karveer, Tal. Karveer, Dist. Kolhapur.

-They are directed to reconnect electricity supply/water supply of aforesaid unit Immediately and report the compliance

28.09.22

(J. S. Salunkhe)
Regional Officer,
Maharashtra Pollution Control Board, Kolhapur

Copy submitted for information.
1. The Member Secretary, M.P.C. Board, Mumbai.
2. Joint Director (WPC), M.P.C. Board, Mumbai.

Copy for information:
Law Officer, M.P.C. Board, Mumbai.

Copy to:
Sub-Regional Officer, M.P.C. Board, Kolhapur
- He is directed to keep vigilance & report the compliance accordingly within stipulated period.

(sr)

SHRI CHHATRAPATI RAJARAM SAHAKARI SAKHAR KARKHANA LTD.
Kasaba Bavada, Tal-Karveer, Dist-Kolhapur - 416 006 (MAHARASHTRA)
Phone : 0231-3500300 To 3500306 E-mail - rajaram.karkhana05@gmail.com
Regd.No.:KPR/KVR/PRG (A) 2(S) / 83-84 Date : 11-4-1984

Ref. No. CRSSK/ETP/MPCB/ 2022-23/ 560 Date : 07/07/2022

FTS - 005		
11	07	2022

To,

The Regional Officer,
Maharashtra Pollution Control Board,
Udyog Bhavan, Kolhapur
Email- rokolhapur@mpcb.gov.in

Sub.: Regarding a request for withdrawal of the Closer Direction & permission to restart the Cane crushing operation.
Ref.: Your letter bearing No. MPCB/RO/KOP/CD/276/22 dated 03/03/2022.

Respected Sir,

This has a reference to your letter under reference through which our Industry was issued closure directions while directing compliances w.r.t. certain points. In this connection, we would like to bring to your kind attention following facts about environmental management being done at our Industry and the compliance observed as well as being observed.

A full-fledged ETP having capacity 600 M^3/day has been provided in the sugar factory for treatment of industrial effluent. The ETP has been designed for rendering primary, secondary & tertiary treatments and comprises of units namely – (1) Oil & Grease Removal Chamber, (2) Equalization Tank (mixing arrangements provided through diffused air), (3) Primary Clarifier, (4) Bio Tower, (5) Aeration Tank, (6) Secondary Clarifier, (7) Sand Filter & Activated Carbon Filter, (8) Treated Water Sump, (9) Sludge Drying Beds and (10) 15 Days Storage Tank as per C.R.E.P. norms.

Wet scrubbers are fitted to boilers as air pollution control equipment followed by 3 stacks of 30 M,30.45 M & 30.45 M heights. Further, as per stipulation in the consent order; ladder, platform & porthole for the sampling are also provided.

OCMS are fitted to ETP outlet & stacks for continuous monitoring of concerned parameters with connectivity & continuous data transfer to CPCB & MPCB servers.

The Industry has already provided 10" diameter D.I. pipeline which is having a length of 11 Km from the sugar factory to village Nagaon for supply of treated industrial effluent which is being utilized by the cane grower share holder & cultivator farmers having about 90 acres of farm land.

SRO(K) 11/07/2022

shri Jadhav. FE
Visit, verify & put up
99/06/22

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Phone : 0231-3500300 To 3500306 E-mail - rajaram.karkhana05@gmail.com
Regd.No.:KPR/KVR/PRG (A) 2(S) / 83-84 Date : 11-4-1984

Our detail point wise reply is as follows

No.	Directions	Compliance done	Status
	Treated water/effluent pipeline for irrigation was observed leaked for several times,	To avoid frequent leakages of pipeline we have completed work of partial replacement of existing pipes by heavy duty 16 Kg 'O' PVC pipes of certain infrastructure in the Nagaon treated effluent disposal pipeline scheme provided for irrigation. We have spend totally Rs.66,07,726/- (Rupees Sixty six lacks seven thousand seven hundred and twenty six only). As the pipeline work has already completed we are enclosing herewith photographs of work in progress and completed work.	Herewith attached excavation work photographs & Purchase Order of lying and lowering of pipes for reference. As Annexure (I)
1.	You have provided ash storage tanks in the ETP premise and ash from the same was observed lying in the ETP premises.	We have provided ash drying beds (for ash trapped through the wet scrubbers) near ETP due to adequate land availability at the said place in our sugar factory. As per your suggestions towards avoiding the ash mixing, we are providing a baffles of ACC sheets to avoid any chances of entry of the ash in to equalization tank and treated water storage tank. Also we will provide a system of spraying water in the premises of E.T.P. to prevent the mixing of dry ash in the E.T.P. units.	Work is in progress and will be complied before next crushing season starts
2.	You have provided 8 inches fresh river water pipeline in the ETP premises which was observed mixing in the final treated tank and clarifier (2) outlet for the purpose of dilution of the treated effluent which was further supplied to the farmers for irrigation purpose.	As per your suggestions we have taken steps to make separate arrangements for storage / supply of fresh water & treated waste water from ETP by providing dedicated tanks to avoid any mixing. The purpose of providing separate tank for fresh water is to cater the need of water of farmers, when there is effluent generation is less & demand of water is more. We have to provide fresh water to the farmers during summer season from the treated water pipeline for irrigation purpose. We will separately operate treated water & river water pumps as per availability of treated water and demand of water from farmer. The construction of said tanks will be completed within next 3 months.	Work is in progress and will be complied before next crushing season starts. The photographs of Excavation work is attached as Annexure(II)
3.	You have provided one valve adjacent to the fresh water pipe line after O & G trap	The valve after O & G trap observed by you has been removed.	Complied & Attached photographs as Annexure (III)

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Regd.No.:KPR/KVR/PRG (A) 2(S) / 83-84 Date : 11-4-1984

4.	Your final treated overflow tank was observed with O & G layer & plastic floating material.	During the visit of MPCB officer, some traces of oil were observed at the treated water tank, which was due to leakage of oil from the gear box provided on scrapper mechanism of secondary clarifier. At the time of visit on 01/03/2022; the crushing was not in operation from 4 am to 11.30 am due to shortage of cane and the said gear box was under repair. During this time, the leakage of gear box was attended on top priority and problem was resolved immediately on the same day. Further, the plastic & paper found floating in the treated water tank was nothing but due to the littered material entrainment from outside areas due to strong summer wind currents & cyclonic storms. Under, routine housekeeping & maintenance practices, the floating material was removed and disposed of properly.	Complied.
5.	MLSS observed in aeration tank was very poor during visit.	We would like to mention here that during the entire period of crushing season; we had maintained good MLSS concentration in the aeration tank as per the norms. However, at the time of visit of your officer to our Industry, the crushing operations were in almost last stages as the season was ending soon. Thus, due to cane shortage; the operations of our factory were not being carried out continuously. In fact on 01/03/2022 (the visit date); our sugar factory was not in operation from 4 am to 11.30 am and your officers visited at 12 noon. Due to shortage & inconsistency of cane supply; crushing operation in our Karkhana was stopped for about 7 hours or so and hence the quantity of effluent was very low without much organic load in it. This resulted in to hydraulic & organic under loading in the ETP thereby resulting in to decrease in the MLSS as observed during the visit of your officer.	Complied.& Crushing reports from 25/02/2022 to 04/03/2022 is attached as Annexure (IV)
6.	During visit the effluent from the Online Monitoring Machine was drained and introduced with the effluent from treated tank and observed that the parameters such as COD & BOD were exceeded as 769	The values of COD & BOD parameters for treated effluent in online monitoring system chamber observed exceeded which was because of entry of partially treated effluent from adjacent sludge sump of primary clarifier. This occurred as the pump on the sump failed and the water got mixed with final treated effluent. This issue was rectified on a war footing	Complied.

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	and 386 respectively.	through replacement of the earlier pump by a new one. The adjacent wall plastering work will be started soon & completed before crushing season starts to prevent mixing of untreated water in to treated sump.	
7.	At the pumping station of your industry you have provided one chamber with underground pipeline .The effluent with smell and color as that of sugar effluent was observed entering in to the river Panchganga (Near Ulape farm) through underground pipeline.	At pumping station, industry has not provided any chamber nor any underground pipeline is there. The water observed during your visit near the chamber might be due to discharges of domestic effluent coming from people living around the industry such as in the Ulape mala etc. A water sample from the chamber was collected on the same day (i.e.01/03/2022) and got analyzed in Govt. approved laboratory. The result of analysis shows that the water near chamber was nothing but domestic effluent. The analyses report is attached herewith for your ready reference.	Complied. & Attached Self monitoring reports as Annexure (V)
8.	The JVS analysis results dated 06/01/2022 are exceeding the consented parameters.	During last cane crushing season (2021-2022); the MPCB officers visited our Industry three times and collected JVS samples from ETP. Out of the three samples, results of two JVS (dated 11.11.2021 & 01.12.2021) were well within the consented limits. However, three parameters of the JVS dated 06/01/2022 were found exceeding the consented parameters.	Complied.& Attached JVS reports as Annexure (VI)
9.	The online monitoring Results after changing the probe effluent with the treated tank effluent and the JVS analysis results of nalla water sample located near pipeline leakage seems to be same as COD is 769 and 708 respectively. Also the JVS analysis results exceeds the consented norms such as COD collected on 01/03/2022 from secondary clarifier ,ETP treated tank and the discharge through the chamber near water lifting pumping station of your industry.	Under self-monitoring practice, on 01.03.2022, we have got analyzed the effluent samples from secondary clarifier outlet, ETP treated tank & water discharged through chamber near water lifting pumping station. The sample analysis was done by a Government approved laboratory. The analysis reports received show that the concerned parameters are well within the limits. The reports are attached herewith for your ready reference.	Complied. & Attached Self monitoring reports as Annexure (VII)

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10.	Reply submitted by you during the Personal Hearing was not accepted.	Now we have complied all the major points raised in your referred letter. Total Expenses for partial replacement of pipelines and for construction of new storage tank, pump fittings etc., is around Rs.90 lacks.	

To reduce and reuse of water in plant following work will be completed during off season

(1) We have already provided two mist type cooling towers, each having capacity of 25 M^3 to utilize all the excess condensate generated in process. In the coming off-season, we will do all the required mechanical up gradation / maintenance work of the cooling towers to enhance their efficiencies for reusing the entire condensate water in process. The purchase order is attached as Annexure (VIII)
(2) All the excess tap water connections will be discarded.
(3) Mill bearing external cooling water will be reused. The necessary work will be completed before crushing season starts.

For proper treatment of effluent following work will be completed during off season.

(1) In the ensuing off-season, we will do all maintenance works w.r.t. the water recycle facilities to minimize lifting of fresh water from the river.
(2) We will make all the major pumps leak proof (zero leakage) which causing leakages and increases COD/BOD values of effluent. The purchase order of said work is attached as Annexure (IX)
(3) All the required maintenance w.r.t. civil and mechanical infrastructure under ETP will be completed on priority basis before two months of the next crushing season commencement so as to keep the entire ETP set up ready in all aspects.
(4) We will do water budget & Environmental Audit during the season from a reputed approved organization for making any further changes and modernization in our plant to meet the latest Environments norms.
(5) We are going to make settling tank leak proof which will be used after bio tower and before aeration tank.

Sir, in addition to the facts & commitments presented above, it is being humbly submitted that the Industry is ready to follow additional directions, if any, to be given by the MPC Board. Further, it is stated that the sugar factory has never ever caused any harm to the environment knowingly and willfully. To avoid the river pollution problems, the Industry has already invested Rs.3 Cr for treated water disposal scheme infrastructure whereby the treated trade effluent is supplied through one 11 Km pipe line stretch to Nagaon village in Hatkanagle Taluka of Kolhapur district.

Sir, we hereby commit that all the necessary positive & possible steps will be taken by our sugar factory while implementing the environmental management for avoiding pollution related issues in the future and also assure that all the consent conditions levied by MPC Board will be duly followed. In light of our commitments being put before you, we

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SHRI CHHATRAPATI RAJARAM SAHAKARI SAKHAR KARKHANA LTD.

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request Your Honor kindly to consider our plea towards withdrawal of the closure direction. Please issue us the restart orders by giving permission to commence cane crushing during ensuing season of 2022-2023. Your decisions towards grant of permission for commencement of the operations in our agro based unit would give a great relief to us as well as to all our 17320 farmer members especially when economy of all the concerned individuals is slowly catching speed during this post COVID Pandemic disaster.

Thanking you

Yours faithfully,

PChitnis

(Prakash J. Chitnis)
Managing Director

Encl:-As above

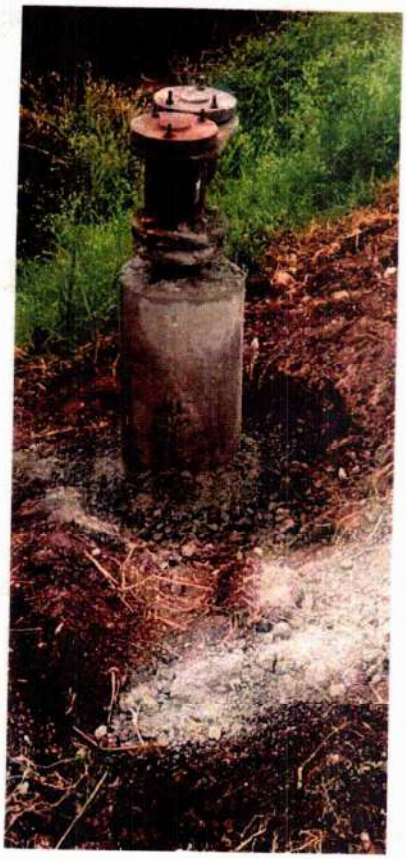
Copy submitted to-

1. Hon. Member Secretary,
   Maharashtra Pollution Control Board,
   Kalpataru Point,
   3rd and 4th floor, Opp.PVR Cinema,
   Sion Circle, Mumbai – 400 022
   Email- ms@mpcb.gov.in
2. Hon. Joint Director (WPC),
   Maharashtra Pollution Control Board,
   Kalpataru Point,
   3rd and 4th floor, Opp.PVR Cinema,
   Sion Circle, Mumbai – 400 022
   Email – jdwater@mpcb.gov.in
3. The law Officer,
   Maharashtra Pollution Control Board,
   Kalpataru Point,
   3rd and 4th floor, Opp.PVR Cinema,
   Sion Circle, Mumbai – 400 022
4. The Sub-Regional Officer,
   Maharashtra Pollution Control Board,
   Udyog Bhavan,
   Kolhapur Email- srokolhapur@mpcb.gov.in

g/dept/cac/chem/etp/The regional officer, restart letter2022

Annexure(I)

O PVC PIPELINE FITTING WORK IN PROGRESS



Ø PVC PIPELINE WORK COMPLETE

Annexure-8

ANALYSIS RESULTS OF SAMPLING CARRIED OUT BY MPCB AT CETPs DURING THE PERIOD JUNE 2022 TO SEPTEMBER 2022

Kagal Hatkanangale C.E.T.P (M/s. SMS Infrastructure Ltd.) 10 MLD									
Parameter	Consented Standards	Date of Sampling							
		06.06.2022		13.06.2022		20.06.2022		27.06.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.5 to 8.0	6.3	**8.1**	8.4	**8.6**	8.4	**8.4**	8.2	**8.1**
BOD	30	180	6	22	8	9	16	18	12
COD	250	616	78.4	114.8	68.4	88	114.8	94.4	56.4
SS	100	174	38	37	26	32	21	24	46
O & G	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TDS	2100	8638	**2346**	3079	1125	2214	549	3843	1785

Kagal Hatkanangale C.E.T.P (M/s. SMS Infrastructure Ltd.) 10 MLD									
Parameter	Consented Standards	Date of Sampling							
		04.07.2022		11.07.2022		18.07.2022		25.07.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.5 to 8.0	7.7	7.6	6.5	**8.4**	6.8	**8.5**	8	**8.1**
BOD	30	78	14	775	18	725	**40**	34	22
COD	250	208.8	92.8	2214.4	71.6	2030.4	131.6	142.4	89.2
SS	100	72	24	128	34	194	44	23	20
O & G	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TDS	2100	3204	1169	5884	**2474**	4446	**2412**	3725	**2463**

Note-All parameters are in mg/L except for pH

Kagal Hatkanangale C.E.T.P (M/s. SMS Infrastructure Ltd.) 10 MLD										
Parameter	**Consented Standards**	**Date of Sampling**								
		01.08.2022		**08.08.2022**		**17.08.2022**		**22.08.2022**		**29.08.2022**	
		Inlet	**Outlet**	**Inlet**	**Outlet**	**Inlet**	**Outlet**	**Inlet**	**Outlet**	**Inlet**	**Outlet**
pH	**6.5 to 8.0**	8.2	8.2	8.1	8.3	7.9	8.3	8	8.1	8.5	8.7
BOD	**30**	23	18	28	18	17	12	33	27	32	11
COD	**250**	72.8	61.2	93.6	79.6	62	58.4	97.6	90.4	92.8	47.2
SS	**100**	34	25	27	18	18	17	21	20	29	20
O & G	**10**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TDS	**2100**	2349	2142	2605	1471	1679	1633	2912	1804	1603	1332

Kagal Hatkanangale C.E.T.P (M/s. SMS Infrastructure Ltd.) 10 MLD										
Parameter	**Consented Standards**	**Date of Sampling**				**Consented Standards**	**Date of Sampling**			
		05.09.2022		**12.09.2022**			**19.09.2022**		**27.09.2022**	
		Inlet	**Outlet**	**Inlet**	**Outlet**		**Inlet**	**Outlet**	**Inlet**	**Outlet**
pH	**6.5 to 8.0**	8.5	**8.5**	7.4	8	**6.0 to 9.0**	7.9	7.9	7.4	8.1
BOD	**30**	48	22	12	8	**100**	24	14	58	28
COD	**250**	152.8	73.6	87.2	50	**250**	106	100	126	112.8
SS	**100**	48	21	38	18	**100**	31	27	26	18
O & G	**10**	BDL	BDL	BDL	BDL	**10**	BDL	BDL	BDL	BDL
TDS	**2100**	2003	841	1469	1156	**Not Mentioned**	2059	1168	5284	1835

Note-All parameters are in mg/L except for pH

Ichalkaranji Textile Development Cluster Ltd.(1 MLD)									
Parameter	Consented Standards	Date of Sampling							
		06.06.2022		13.06.2022		20.06.2022		27.06.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	6.9	7.7	5.5	7.5	5.9	8.1	5.8	8.4
BOD	100	115	8	625	4	450	6	320	11
COD	250	375.2	105.2	1508.8	66.8	1230.4	44	1099.2	70.4
SS	100	128	56	138	12	178	33	148	23
O & G	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TDS	Not Mentioned	2234	1806	6964	716	8614	2047	3736	2638

Ichalkaranji Textile Development Cluster Ltd.(1 MLD)									
Parameter	Consented Standards	Date of Sampling							
		04.07.2022		11.07.2022		18.07.2022		25.07.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	6.4	8.3	7.2	8	5	8.5	4.8	8.2
BOD	100	360	6	165	10	475	14	625	16
COD	250	1141.6	40	429.6	42.8	1484	166.4	2172.8	174.4
SS	100	188	36	112	35	188	48	188	34
O & G	10	BDL	BDL	BDL	BDL	4.2	BDL	12.4	BDL
TDS	Not Mentioned	8396	1482	3816	1697	5334	2393	2982	2316

Note-All parameters are in mg/L except for pH

Ichalkaranji Textile Development Cluster Ltd.(1 MLD)

Parameter	Consented Standards	Date of Sampling									
		01.08.2022		08.08.2022		17.08.2022		22.08.2022		29.08.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	7.3	8.3	10.6	8.6	6.6	8.3	7.6	8.3	8.5	8.7
BOD	100	460	18	320	56	410	11	190	23	88	15
COD	250	1374.4	64	916.8	176.4	1205.6	52.8	562	81.6	257.6	52
SS	100	46	44	158	26	156	26	138	26	43	49
O & G	10	BDL	BDL	BDL	BDL	3.8	BDL	BDL	BDL	BDL	BDL
TDS	Not Mentioned	4292	2612	5056	2531	5068	2089	3914	2574	3578	2804

Ichalkaranji Textile Development Cluster Ltd.(1 MLD)									
Parameter	Consented Standards	Date of Sampling							
		05.09.2022		12.09.2022		19.09.2022		27.09.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	7.7	8.5	8.4	8.6	7.6	8.5	6.3	8.5
BOD	100	750	28	82	6	280	12	675	18
COD	250	2112	76	214.4	47.6	710.4	82.4	1920	78
SS	100	184	19	112	28	188	29	168	21
O & G	10	4.2	BDL	BDL	BDL	BDL	BDL	2.4	BDL
TDS	Not Mentioned	9992	3248	2418	1748	5586	2838	4863	2633

Note-All parameters are in mg/L except for pH

Ichalkaranji Textile CETP Ltd.(12 MLD)									
Parameter	Consented Standards	Date of Sampling							
		06.06.2022		13.06.2022		20.06.2022		27.06.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	8.5	6	8	8	7.8	8.4	6	8.3
BOD	100	8	6	325	24	650	22	800	14
COD	250	100.8	80.8	1726.4	118.8	1702.4	105.6	2038.4	78.4
SS	100	24	20	108	87	156	43	178	39
O & G	10	BDL	BDL	4.6	BDL	4.6	BDL	BDL	BDL
TDS	Not Mentioned	2821	1592	4626	2448	4745	2645	4728	2095

Ichalkaranji Textile CETP Ltd.(12 MLD)									
Parameter	Consented Standards	Date of Sampling							
		04.07.2022		11.07.2022		18.07.2022		25.07.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	10.1	8.4	7.8	7.7	7.7	7.9	6.5	8.5
BOD	100	925	24	74	30	56	16	430	42
COD	250	1742344	110	229.6	96.4	175.6	43.6	1248	132
SS	100	174	32	112	39	88	47	148	29
O & G	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TDS	Not Mentioned	4272	2748	2544	1496	1854	1214	3418	2338

Note-All parameters are in mg/L except for pH

Ichalkaranji Textile CETP Ltd. (12 MLD)										
Parameter	Consented Standards	Date of Sampling								
		01.08.2022		08.08.2022		17.08.2022		22.08.2022		29.08.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	7.2	8.5	5.7	8.3	6.7	8.3	6.6	8.3	7.7	8.7
BOD	100	475	18	310	8	675	24	825	44	430	38
COD	250	1348.8	69.2	947.2	34	1929.6	83.6	2531.2	124.4	1203.2	107.2
SS	100	124	26	144	35	166	27	116	48	178	38
O & G	10	BDL	BDL	2.8	BDL	6.2	BDL	8.6	BDL	1.2	BDL
TDS	Not Mentioned	3460	2519	4134	2612	8750	2462	7124	2612	6452	3158

Ichalkaranji Textile CETP Ltd. (12 MLD)									
Parameter	Consented Standards	Date of Sampling							
		05.09.2022		12.09.2022		19.09.2022		27.09.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	7.6	8.7	7.6	8.5	7.2	8.5	10	8.4
BOD	100	650	46	675	14	675	28	725	68
COD	250	1868.8	145.6	1804.8	75.2	1936	117.6	2035.2	195.2
SS	100	178	23	172	31	168	31	184	28
O & G	10	2.8	BDL	BDL	BDL	6.8	BDL	3.2	BDL
TDS	Not Mentioned	8522	3428	6714	3128	4702	3244	5174	3423

Note-All parameters are in mg/L except for pH

Item No. 04 Court No. 1

BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

Original Application No. 988/2018

(With reports dated 18.12.2020, 28.12.2020 & 24.02.2021)

Dr. Balkrishna A. Shelar Applicant

Versus

State of Maharashtra Respondent(s)

Date of hearing: 25.02.2021

CORAM: HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON
HON'BLE MR. JUSTICE SHEO KUMAR SINGH, JUDICIAL MEMBER
HON'BLE DR. NAGIN NANDA, EXPERT MEMBER

Respondent: Mr. Sangramsingh R. Bhonsle, Advocate for Kolhapur Irrigation Department
Mr. Mukesh Verma, Advocate for MPCB
Mr. Ravidra Chingale, Advocate for KMC

ORDER

1. The issue for consideration is the remedial action against pollution of River Panchganga in District Kolhapur, Maharashtra. Vide order dated 05.04.2019, after considering the report received from the State Pollution Control Board (SPCB), showing failure of Municipal Corporation, this Tribunal directed further remedial steps to be taken to demarcate 'red zone' area and stopping polluting activities.

2. The matter was considered on 27.09.2019 and stand of the Corporation by way of an action taken report dated 28.08.2019 was noted to the effect that a joint meeting was held with the Irrigation department for demarcation and finalization of 'red' and 'blue' lines. As regards removal of unauthorized constructions, it was stated that there is stay granted by the Hon'ble Supreme Court on 03.05.2018 in SLP No. 10001 of 2018. Part of the sewage is treated by the existing STPs.

Further treatment is expected by October 2019 and thereafter by May 2020. Some amount has been provided towards the cost of untreated effluents as per direction of the SPCB. Following direction was issued:-

> 4. ***The Irrigation Department may complete the process of demarcation of the 'red' and 'blue' lines within one month. Let a compliance report be furnished by the Principal Secretary, Irrigation Department*** *by e-mail at judicial-ngt@gov.in within one month.* ***Pending permanent solution for the sewage treatment, temporary steps by way of phytoremediation, bioremediation or use of other technology may be adopted by the Corporation to ensure that no untreated sewage is discharged into the river Panchganga. The Additional Chief Secretary, Urban Development may also file a report as already directed vide order dated 05.04.2019, failing which he may have to be required to remain present in person before the Tribunal.***

3. The matter was last considered on 16.07.2020 in continuation of the earlier proceedings and in the light of status report filed by the Irrigation Department on 18.02.2020 and by the Municipal Corporation, Kolhapur on 15.07.2020 and direction was issued for further remedial action as follows:-

> *"2. In view of the above, status report has been filed by the Irrigation Department on 18.02.2020 followed by report of the Municipal Corporation, Kolhapur filed on 15.07.2020 stating as follows:*
>
> > *"4. It is submitted that the blue and red line is not completely demarcated on the entire area. The area from Laxthirth to Dudhali approximately 1 Kilometer and Kadamwadi to Gandhinagar approximately 2.5 Kilometer, total around 3.5 Kilometer length along the river is yet to be demarcated. Thus as the demarcation of red/blue/green line is incomplete by irrigation department the KMC has sent letters to Chief Engineer, Irrigation Department and requested to finalize remaining part of blue and red line at the earliest."*
>
> *3. In view of the above,* ***the work of demarcation of 'red' and 'blue' lines may be completed expeditiously. The Municipal Corporation, Kolhapur and the State PCB may take necessary steps for preventing discharge of untreated effluents and sewage. Compliance reports may be filed before the next date*** *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."*

4. Accordingly, further reports have been filed. The Irrigation Department has filed its report on 28.12.2020, the State PCB on 18.12.2020 and the Municipal Corporation, Kolhapur on 24.02.2021. We have duly considered the same.

5. The report of the Irrigation Department is that the bridge on the Pune-Bangalore National Highway has affected the natural flow of the river Panchganga. The work of demarcation of 'red' and 'blue' line for the remaining stretch of 1.5 kms of the river Panchganga in terms of the Status Report dated 18.02.2020 and a remaining stretch of 2.5 kms in terms of the report dated 15.07.2020 filed by the Municipal Corporation, Kolhapur was undertaken by taking the steps mentioned in the report which include demarcation, estimation of cost, award of tender, hydraulic study of the remaining stretch of Panchganga River from Prayag Chikhali to Shivaji Bridge and National Highway to Rukadi K.T. Weir and Bhogawati River from Prayag Chikhali to Padali for the computation of blue and red line. Finally, it is stated that once the surveying and computation work is completed, the demarcation of blue and red line shall be carried out using HEC-RAS Software which shall be further vetted by the IIT, Bombay and then be submitted to the Water Resources Department for the approval after which it shall be published on the Government website. The survey cannot be restricted only to the distance amounting to the stretch of 3.5 kms which requires to undertake the study of a total distance of 19.10 kms as technically only stretch of 3.5 kms cannot be studied using HEC-RAS Software which is taking a substantial amount of time in concluding the hydraulic study of the remaining stretch Panchganga River from Prayag Chikhali to Shivaji Bridge and National Highway to Rukadi K. T. Weir and Bhogawati River from Prayag Chikali to Padali for the computation of blue and red line. It

is proposed that The Kolhapur Irrigation Department undertakes that **the said process shall be completed by 19.04.2021.**

6. The report of the State PCB is with regard to the steps taken for treatment of sewage giving the status as follows:-

"C) Details of Sewage collection and treatment is as below:

Sr. No.	Collection and Treatment facility	Remark
1	76 MLD STP constructed under NRCD project at Kasaba Bawada	The Plant is in continuous operation since December 2014.
2	17 MLD STP constructed under Maharashtra Suvarna Jayanti Nagarothan Mahaabhiyan Scheme at Dudhali	The plant is in continuous operation since July 2018.
3	Juna Bhudhavar Nala (0.77 MLD) & CPR Nalla (0.62 MLD) Diverted to 76 MLD STP	Work is completed in the month of June 2019 & October 2019 respectively departmentally.
4	Line Bazar pumping station 5.5 MLD waste water flow is diverted to 76 MLD STP	Work is completed on 27-11-2019
5	Bapat Camp Pumping Station 11.5 MLD waste water flow is diverted to 76 MLD STP	Work is completed on 04-12-2019
6	Interception & diversion of Remaining 6 Nalas which contribute flow of 6 MLD	Work was expected to be completed in May 2020. However, the work is not yet complete

D) (wrongly mentioned as B) Board is also regularly monitoring quality of treated effluent of sewage treatment plants. This treated effluent is used for agriculture and excess is discharged into Panchganga River. Tabulated results for July 2020 till Nov-2020 is annexed as ***ANNEXURE-II.***

E) (wrongly mentioned as C) Board is also regularly monitoring quality of Panchganga River at four locations. Tabulated results for January 2020 till Nov-2020 is annexed as ***ANNEXURE-III.***

F) (wrongly mentioned as D) An incidence of overflow of Jayanti nallah was observed due to inadequate pumping on 27/11/2020. Board has issued Proposed Directions to the Kolhapur Municipal Corporation under section 33A of the Water (Prevention and Control of Pollution) Act, 1974. Copy of the direction is annexed as ***ANNEXURE-IV****. Reply to this proposed direction is received from Kolhapur Municipal Corporation vide letter dated 14/12/2020. Copy of the reply is annexed as* ***ANNEXURE-V****."*

7. The report of the Municipal Corporation mentions the steps taken for demarcation of the red and blue line in coordination with the Irrigation Department, which have already been noted and also for the treatment of the waste water.

8. In view of above, the pending work of demarcation of red and blue lines may be completed expeditiously, as earlier directed and further steps be taken for preventing discharge of untreated effluents and sewage. Further monitoring of compliance may be undertaken by the Secretary, Environment, Maharashtra.

9. A joint status report by the Irrigation Department, the State PCB and the Municipal Corporation, Kolhapur (with Nodal Agency being the State PCB), as on 31.05.2021, may be furnished to the Secretary, Environment, Maharashtra for such further remedial action as may be required, as per the directions of the said Secretary. The Secretary Environment, may look into the report and ensure further remedial action, in the light of orders of this Tribunal or otherwise. The Secretary, Environment may forward the action taken report to the Secretary, Ministry of Jal Shakti, GoI, NMCG and CPCB.

The application is disposed of.

A copy of this order be forwarded to the Irrigation Department, the State PCB and the Municipal Corporation, Kolhapur and the Secretary Environment, Maharashtra by e-mail for compliance.

Adarsh Kumar Goel, CP

S.K. Singh, JM

Dr. Nagin Nanda, EM

February 25, 2021
OA No. 988/2018
SN

Annexure-10

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KOLHAPUR MUNICIPAL CORPORATION
ENVIRONMENT DEPARTMENT,
SHIVAJI MARKET 1ST FLOOR,
WEST SIDE KOLHAPUR
Phone No. P.B.X Board ☎2540291 to 2540297
2546118,2541082
Email id- envkmc@gmail.com

Environment Dep W/S No/ 112 / Dated: 11 /11/2022

To
The Regional Officer
Maharashtra Pollution Control Board,
Near Collector Office, Udhyog Bhavan,
Kolhapur.

Sub :- To ascertain position in respect of the issues raised by the Applicant regarding pollution of Panchaganga River in OA No. 563 of 2022 filled by Vrinda Basu Vs State of Maharashtra.
Ref :- Your Official letter Dated No. MPCB/RO/KOP/PR/FTS-0049 date 30-09-2022

Sir/Madam,

With Reference to the letter received from your office herewith we are submitting the present status of steps taken against control of pollution for Panchagana River which are as follows.

Sr.No	Name of Project	Present status
1)	76 mld STP at Kasaba Bawada (NRCD)	• STP is in Continuous operation
	• Line Bazar pumping station	• The work is completed & the wastewater flow of 5.5 MLD from Line bazar nalla is diverted to kasaba Bawada STP on 27-11-2019.
	• Bapat Camp pumping station	• The work is completed & the wastewater flow of 11.5 MLD from Bapat camp Nalla is diverted to Kasaba Bawada STP on 04-12-2019.
	• Up-gradation of Jayanti nala pumping station.	Presently out of total 6 pumps required 2 pumps of capacity 450 HP are in continuous operation at Jayanti Nalla pumping station to transfer the sewage from Jayanti Nalla to 76 M.L.D. S.T.P Kasaba Bawada. Now 2 pumps are kept standby. Remaining 2 pumps are kept as additional store standby.
2)	17 mld STP at Dudhali nala, (Suvarna Jayanti Nagarothan Scheme)	The 17 MLD STP plant is commissioned and is in operation from 01-07-2018.
3)	Various components considered under AMRUT Scheme	• **Components of the scheme are as follows.** 1. Sewerage network for Dudhali zone (112.90 km).As per actual survey 78 kms.

		2. 6 mld STP at Dudhali nala 3. 4 mld STP at Kasaba Bawada 4. I & D work of Kasaba Bawada nala & related works. 5. I & D work of other remaining 5 nallas. - The work order for the AMRUT scheme is given dated 24-10-2017. The execution of above said works is in progress. • **Sewerage Network for Dudhali zone:-** - The laying of drainage pipe line of various dia. of length 65.00 Km is completed. - About 2810 nos. of manhole chamber & 1079 house service connection work is completed • **6mld STP at Dudhali :-** 1) 4th & 5th lift of RCC vertical wall of SBR basin is in progress. 2) RCC walls of chlorination tank are in progress. 3) Brick work & column work of administrative building and blower room is progress 4) Design work of substation/ transformer/ DG sets/ panel room is in process. • **4 mld STP at Kasaba Bawada:-** 1) Bottom slab of primary units inlet chamber, screen chamber ,greet chamber is in progress. 2) Plaster work of chlorination tank, tonner rooms in progress. 3) Plaster and windows grill work of administrative building and blower is completed. 4) Brick work and plaster of HT sub station transformer/ DG sets/ panel room is in process. **Interception & Diversion of 1)Kasaba Bawada nala-** Core drilling work for strata identification at site of KT weir has been completed. Hydraulic design. RCC design is in process. **2) Lakshatirth nala** Out of 1500 m of pipe line work 1457 m work of rising main has already completed. RCC design and drawings hs been approved for the work of KT weir, receiving chamber, screen,& grit chambers. Line out & site cleaning for KT weir is in progress. About 97% of work is completed.

		3) Vit bhatti nala.- Out of 960 m supply of pipe about 505 m rising main work is completed. Design work for KT weir receiving chamber screen,& grit chambers is in progress. Trail bore for soil investigation has been taken. About 52% of work is completed. **4)Rajhuns nala-** Out of 125 m supply of pipe about 97.5 m gravity main main work is completed. Design work for KT weir receiving chamber, screen,& grit chambers has been approved .Trail bore for soil investigation has been taken. About 78%. **5) Ramanmala nala-** Work is completed. About 122.5 m work og gravity main is completed. RCC design and drawings are approved for receiving, screen & grit chamber. About 80% of work is completed. **6) Dream world nala-** RCC design and drawings are approved for receiving, screen & grit chamber. • **Pumping machinery-** **For I & D Work of nallas** Tender procedure for electro mechanical works of various pumping station of nallas is completed & the finalised tender is submitted to MJP for further sanction of State Level Technical Committee (SLTC) **For STP Work** • **Weighted physical progress - 67.40 %** • **Weighted financial progress -45.26 %**
4)	• Short term measures taken on small nallas	- Removal of floating matters and plastic - Wastewater utilization for grassland - Manual bleaching powder dose - Plantation of Taro plants by means of traditional phyto remediation at remaining nallas

Additional Commissioner
Kolhapur Municipal Corporation

महाराष्ट्र शासन, जलसंपदा विभाग,
कार्यकारी अभियंता,
कोल्हापूर पाटबंधारे विभाग(उत्तर),
सिंचन भवन, ताराबाई पार्क, कोल्हापूर.

दूरध्वनी -०२३१/२६५४७३६, फॅक्स – ०२३१/२६५४७३५, ई-मेल – eekidkopn@gmail.com

जा.क्र.कोपावि(उ)/प्रशा-१/ ७४४३ / सन २०२२ | दिनांक :- १७/११/२०२२.

To,
Sub. Regional Officer,
Maharashtra Pollution Control Board,
Kolhapur.

Sub. :- **Submission of compliance of NGT order dated 25.02.2021 in OA No. 988/2018, Dr. Balkrishna A. Shelar V State of Maharashtra.**

Ref. :- **Email from Sub Regional Officer, Kolhapur, Maharashtra Pollution Control Board dated 14th Nov. 2022.**

With respect to above subject it is to inform you that the work of demarcation of Blue & Red line in portion of Kolhapur city area as well as from Prayag Chikhali to Rukadi of Panchaganga river total length 31.30 Km was completed, and all maps are published on www.wrd.maharashtra.gov.in this website date 03.06.2022.

Executive Engieer,
Kolhapur Irrigation Division(North),
Kolhapur

ANALYSIS RESULTS OF SAMPLING CARRIED OUT BY MPCB AT CETPs DURING THE PERIOD JUNE 2022 TO SEPTEMBER 2022

Kagal Hatkanangale C.E.T.P (M/s. SMS Infrastructure Ltd.) 10 MLD									
Parameter	Consented Standards	Date of Sampling							
		06.06.2022		13.06.2022		20.06.2022		27.06.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.5 to 8.0	6.3	**8.1**	8.4	**8.6**	8.4	**8.4**	8.2	**8.1**
BOD	30	180	6	22	8	9	16	18	12
COD	250	616	78.4	114.8	68.4	88	114.8	94.4	56.4
SS	100	174	38	37	26	32	21	24	46
O & G	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TDS	2100	8638	**2346**	3079	1125	2214	549	3843	1785

Kagal Hatkanangale C.E.T.P (M/s. SMS Infrastructure Ltd.) 10 MLD									
Parameter	Consented Standards	Date of Sampling							
		04.07.2022		11.07.2022		18.07.2022		25.07.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.5 to 8.0	7.7	7.6	6.5	**8.4**	6.8	**8.5**	8	**8.1**
BOD	30	78	14	775	18	725	**40**	34	22
COD	250	208.8	92.8	2214.4	71.6	2030.4	131.6	142.4	89.2
SS	100	72	24	128	34	194	44	23	20
O & G	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TDS	2100	3204	1169	5884	**2474**	4446	**2412**	3725	**2463**

Note-All parameters are in mg/L except for pH

Kagal Hatkanangale C.E.T.P (M/s. SMS Infrastructure Ltd.) 10 MLD											
Parameter	Consented Standards	Date of Sampling									
		01.08.2022		08.08.2022		17.08.2022		22.08.2022		29.08.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.5 to 8.0	8.2	8.2	8.1	8.3	7.9	8.3	8	8.1	8.5	8.7
BOD	30	23	18	28	18	17	12	33	27	32	11
COD	250	72.8	61.2	93.6	79.6	62	58.4	97.6	90.4	92.8	47.2
SS	100	34	25	27	18	18	17	21	20	29	20
O & G	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TDS	2100	2349	2142	2605	1471	1679	1633	2912	1804	1603	1332

Kagal Hatkanangale C.E.T.P (M/s. SMS Infrastructure Ltd.) 10 MLD										
Parameter	Consented Standards	Date of Sampling				Consented Standards	Date of Sampling			
		05.09.2022		12.09.2022			19.09.2022		27.09.2022	
		Inlet	Outlet	Inlet	Outlet		Inlet	Outlet	Inlet	Outlet
pH	6.5 to 8.0	8.5	8.5	7.4	8	6.0 to 9.0	7.9	7.9	7.4	8.1
BOD	30	48	22	12	8	100	24	14	58	28
COD	250	152.8	73.6	87.2	50	250	106	100	126	112.8
SS	100	48	21	38	18	100	31	27	26	18
O & G	10	BDL	BDL	BDL	BDL	10	BDL	BDL	BDL	BDL
TDS	2100	2003	841	1469	1156	Not Mentioned	2059	1168	5284	1835

Note-All parameters are in mg/L except for pH

Ichalkaranji Textile Development Cluster Ltd.(1 MLD)									
Parameter	Consented Standards	Date of Sampling							
		06.06.2022		13.06.2022		20.06.2022		27.06.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	6.9	7.7	5.5	7.5	5.9	8.1	5.8	8.4
BOD	100	115	8	625	4	450	6	320	11
COD	250	375.2	105.2	1508.8	66.8	1230.4	44	1099.2	70.4
SS	100	128	56	138	12	178	33	148	23
O & G	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TDS	Not Mentioned	2234	1806	6964	716	8614	2047	3736	2638

Ichalkaranji Textile Development Cluster Ltd.(1 MLD)									
Parameter	Consented Standards	Date of Sampling							
		04.07.2022		11.07.2022		18.07.2022		25.07.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	6.4	8.3	7.2	8	5	8.5	4.8	8.2
BOD	100	360	6	165	10	475	14	625	16
COD	250	1141.6	40	429.6	42.8	1484	166.4	2172.8	174.4
SS	100	188	36	112	35	188	48	188	34
O & G	10	BDL	BDL	BDL	BDL	4.2	BDL	12.4	BDL
TDS	Not Mentioned	8396	1482	3816	1697	5334	2393	2982	2316

Note-All parameters are in mg/L except for pH

Ichalkaranji Textile Development Cluster Ltd.(1 MLD)

Parameter	Consented Standards	Date of Sampling									
		01.08.2022		08.08.2022		17.08.2022		22.08.2022		29.08.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	7.3	8.3	10.6	8.6	6.6	8.3	7.6	8.3	8.5	8.7
BOD	100	460	18	320	56	410	11	190	23	88	15
COD	250	1374.4	64	916.8	176.4	1205.6	52.8	562	81.6	257.6	52
SS	100	46	44	158	26	156	26	138	26	43	49
O & G	10	BDL	BDL	BDL	BDL	3.8	BDL	BDL	BDL	BDL	BDL
TDS	Not Mentioned	4292	2612	5056	2531	5068	2089	3914	2574	3578	2804

Ichalkaranji Textile Development Cluster Ltd.(1 MLD)									
Parameter	Consented Standards	Date of Sampling							
		05.09.2022		12.09.2022		19.09.2022		27.09.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	7.7	8.5	8.4	8.6	7.6	8.5	6.3	8.5
BOD	100	750	28	82	6	280	12	675	18
COD	250	2112	76	214.4	47.6	710.4	82.4	1920	78
SS	100	184	19	112	28	188	29	168	21
O & G	10	4.2	BDL	BDL	BDL	BDL	BDL	2.4	BDL
TDS	Not Mentioned	9992	3248	2418	1748	5586	2838	4863	2633

Note-All parameters are in mg/L except for pH

Ichalkaranji Textile CETP Ltd.(12 MLD)									
Parameter	Consented Standards	Date of Sampling							
		06.06.2022		13.06.2022		20.06.2022		27.06.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	8.5	6	8	8	7.8	8.4	6	8.3
BOD	100	8	6	325	24	650	22	800	14
COD	250	100.8	80.8	1726.4	118.8	1702.4	105.6	2038.4	78.4
SS	100	24	20	108	87	156	43	178	39
O & G	10	BDL	BDL	4.6	BDL	4.6	BDL	BDL	BDL
TDS	Not Mentioned	2821	1592	4626	2448	4745	2645	4728	2095

Ichalkaranji Textile CETP Ltd.(12 MLD)									
Parameter	Consented Standards	Date of Sampling							
		04.07.2022		11.07.2022		18.07.2022		25.07.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	10.1	8.4	7.8	7.7	7.7	7.9	6.5	8.5
BOD	100	925	24	74	30	56	16	430	42
COD	250	1742344	110	229.6	96.4	175.6	43.6	1248	132
SS	100	174	32	112	39	88	47	148	29
O & G	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TDS	Not Mentioned	4272	2748	2544	1496	1854	1214	3418	2338

Note-All parameters are in mg/L except for pH

Ichalkaranji Textile CETP Ltd. (12 MLD)											
Parameter	Consented Standards	Date of Sampling									
		01.08.2022		08.08.2022		17.08.2022		22.08.2022		29.08.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	7.2	8.5	5.7	8.3	6.7	8.3	6.6	8.3	7.7	8.7
BOD	100	475	18	310	8	675	24	825	44	430	38
COD	250	1348.8	69.2	947.2	34	1929.6	83.6	2531.2	124.4	1203.2	107.2
SS	100	124	26	144	35	166	27	116	48	178	38
O & G	10	BDL	BDL	2.8	BDL	6.2	BDL	8.6	BDL	1.2	BDL
TDS	Not Mentioned	3460	2519	4134	2612	8750	2462	7124	2612	6452	3158

Ichalkaranji Textile CETP Ltd. (12 MLD)									
Parameter	Consented Standards	Date of Sampling							
		05.09.2022		12.09.2022		19.09.2022		27.09.2022	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
pH	6.0 to 9.0	7.6	8.7	7.6	8.5	7.2	8.5	10	8.4
BOD	100	650	46	675	14	675	28	725	68
COD	250	1868.8	145.6	1804.8	75.2	1936	117.6	2035.2	195.2
SS	100	178	23	172	31	168	31	184	28
O & G	10	2.8	BDL	BDL	BDL	6.8	BDL	3.2	BDL
TDS	Not Mentioned	8522	3428	6714	3128	4702	3244	5174	3423

Note-All parameters are in mg/L except for pH

ANALYSIS RESULTS OF SAMPLING CARRIED BY MPCB FOR RIVER PANCHAGANGA
(January 2022 to September 2022)

L1: Panchaganga River Water at Balinga U/S of KMC (Station No.1904)										
Parameters/Month	**Jan-22**	**Feb-22**	**Mar-22**	**Apr-22**	**May-22**	**Jun-22**	**Jul-22**	**Aug-22**	**Sep-22**	**20.10.2022#**
Dissolved Oxygen (mg/L)	6.1	7	5.7	6.5	6.3	7	6.6	6.9	7.3	7.2
Ph	7.3	7.4	7.6	7.7	7.1	7.5	7.2	7.8	7.6	8.7
B.O.D (mg/L)	2	1.8	2.2	2	2	1.8	1.8	1.8	1.8	2
Nitrate- N (mg/L)	2.76	0.83	0.59	0.47	0.71	2.75	1.71	1.80	1.99	2.68
Ammonia-N (mg/L)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total Coli form (MPN)/100 ml	24	17	27	21	17	17	14	17	17	13
Fecal Coli form (MPN)/100 ml	5.6	4	6	5.6	4	5.5	4	2	< 1.8	13
C.O.D	18	14.4	24	18.4	20	22.8	20	18	17	16
T.K.N	1.5	1.5	1.5	1.57	1.5	3.36	1.68	2.24	1.50	2.2
Total Dissolved solids	394	152	84	74	80	74	76	76	203	326
Total Fixed solids	356	138	70	64	72	67	67	69	183	290
Total Suspended Solids	10	12	10	11	10	11	11	10	11	14
Turbidity (NTU)	1	1	1	1	1	1	1	1	1	1
Total Alkalinity	130	40	34	36	36	40	20	24	60	158

#-NGT Joint Committee Visit date

L2: Panchganga River water at NH-4 Bridge D/S KMC, Station Number: 1905										
Parameters/Month	**Jan-22**	**Feb-22**	**Mar-22**	**Apr-22**	**May-22**	**Jun-22**	**Jul-22**	**Aug-22**	**Sep-22**	**20.10.2022#**
Dissolved Oxygen (mg/L)	5.8	6.7	5	5	6.5	6.7	6.3	7.1	6.4	7.0
pH	7	7.8	7.5	7.9	7	7.6	7.1	8.0	7.4	8
B.O.D (mg/L)	2.2	2	2.4	2.2	2	1.8	2	2	2	1.8
Nitrate- N (mg/L)	2.35	1.66	0.40	1.25	0.60	2.82	1.85	1.40	1.75	1.66
Ammonia-N (mg/L)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total Coli form (MPN)/100 ml	27	21	32	27	20	20	20	20	21	17
Fecal Coli form (MPN)/100 ml	6.1	5.6	6.1	6.1	5.5	5.6	5.5	5.6	5.5	6.1
C.O.D	22	16.4	25.6	22.4	18.4	19.2	18	16	16	17
T.K.N	1.5	1.5	1.5	1.90	1.5	3.36	1.68	1.50	1.50	2.2
Total dissolved solids	256	384	96	328	86	76	84	77	109	146
Total Fixed solids	234	348	81	294	72	68	76	70	99	128
Total Suspended Solids	10	12	11	11	10	11	12	10	10	15
Turbidity (NTU)	1.20	1.20	1	1	1	1	1	1	1	1.40
Total Alkalinity	80	110	38	80	42	50	24	40	36	62

#-NGT Joint Committee Visit date

L3: Panchaganga River Water at Ichalkaranji Ghat. Station No.1311										
Parameters/Month	**Jan-22**	**Feb-22**	**Mar-22**	**Apr-22**	**May-22**	**Jun-22**	**Jul-22**	**Aug-22**	**Sep-22**	**20.10.2022#**
Dissolved Oxygen (mg/L)	5.5	6.2	5	4.9	5.7	6.7	6.9	6.9	5.8	7.2
pH	6.9	7.4	7.8	7.5	7.4	7.5	7.4	8.2	7.6	7.7
B.O.D (mg/L)	2.2	2.2	2.4	2.6	2.2	1.8	1.8	2	2	1.8
Nitrate- N (mg/L)	2.43	1.82	1.22	2.20	1.94	5.90	1.84	1.66	2.06	2.24
Ammonia-N (mg/L)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total Coli form (MPN)/100ml	20	25	38	26	24	24	25	27	27	17
Fecal Coli form (MPN)/100ml	3.6	6	6.8	6	5.6	6	6	6	6	5.5
C.O.D	18.4	14.4	28.8	22.4	20.8	20	17.6	18	18	18.0
T.K.N	1.5	1.5	1.5	1.5	1.5	5.60	1.68	2.24	1.50	2.2
Total dissolved Solids	248	346	260	284	226	159	91	119	161	221
Total Fixed Solids	228	318	224	243	202	143	82	107	147	199
Total Suspended Solids	10	12	11	12	11	10	13	11	11	14
Turbidity (NTU)	1	1	1	1	1	1	1	1	1	1
Total Alkalinity	100	80	40	56	80	80	28	40	40	96

#-NGT Joint Committee Visit date

L4: Panchaganga at River water at Shirol. Station no.2163										
Parameters/Month	**Jan-22**	**Feb-22**	**Mar-22**	**Apr-22**	**May-22**	**Jun-22**	**Jul-22**	**Aug-22**	**Sep-22**	**20.10.2022#**
Dissolved Oxygen (mg/L)	6.4	6.5	5	6.8	6.3	6.7	6.1	7.3	6.6	6.7
pH	7.4	7.9	8.0	7.9	7.7	7.6	7.1	8.1	7.7	8.1
B.O.D (mg/L)	2	2.2	2.4	1.4	2	1.8	2	2	2	2
Nitrate- N (mg/L)	2.79	1.51	1.57	3.30	1.28	4.37	2.18	1.90	0.30	1.66
Ammonia-N (mg/L)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total Coli form (MPN)/100ml	20	26	38	25	25	24	25	24	24	20
Fecal Coli form (MPN)/100ml	6	6	6.8	6	5.6	6	6	6	6	8
C.O.D	14.4	18	29.6	16	17.6	18	16	17	17	17.2
T.K.N	1.5	1.5	1.5	2.52	1.5	3.92	2.24	1.50	1.68	2.24
Total dissolved solids	368	598	560	926	418	203	83	131	211	145
Total Fixed solids	312	562	485	821	378	183	75	118	191	128
Total Suspended Solids	12	14	12	10	11	11	12	11	11	12
Turbidity (NTU)	1	1	1	1	1	1	1	1	1	1.40
Total Alkalinity	100	80	180	136	68	80	26	40	60	64

#-NGT Joint Committee Visit date

Annexure-14

130

pils-183.12, 15,28.10, cai-105,60,61.14

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IN THE HIGH COURT OF JUDICATURE AT BOMBAY
CIVIL APPELLATE JURISDICTION

PUBLIC INTEREST LITIGATION NO.183 OF 2012

Dattatraya Hari Mane & Ors. ... Petitioners
Vs.
The State of Maharashtra & Ors. ... Respondents

WITH
CIVIL APPLICATION NO.60 OF 2014
IN
PUBLIC INTEREST LITIGATION NO.183 OF 2012

Kolhapur Municipal Corporation
Through its Commissioner ... Applicant
Vs.
Dattatraya Hari Mane & Ors. ... Respondents

WITH
CIVIL APPLICATION NO.61 OF 2014
IN
PUBLIC INTEREST LITIGATION NO.183 OF 2012

Dattatraya Hari Mane & Ors. ... Applicants
Vs.
State of Maharashtra and Ors. ... Respondents

WITH
PUBLIC INTEREST LITIGATION NO.28 OF 2010
WITH
CIVIL APPLICATION NO.105 OF 2014
IN
PUBLIC INTEREST LITIGATION NO.28 OF 2010

Prajasattak Samajik Seva Sanstha
Through its President
Dilip A. Desai ... Applicant
Vs.
State of Maharashtra and Ors. ... Respondents

WITH
PUBLIC INTEREST LITIGATION NO.15 OF 2010

Shri Kisan Murlidhar Kalyankar and Anr. ... Petitioners
Vs.
State of Maharashtra and Ors. ... Respondents

Mr. D.V. Sutar, for Petitioners in PIL No.183 of 2012 and for Applicant in CAI No.61 of 2014.

Mr. S.S.Patwardhan, for Applicant in CAI No.60 of 2014, for Respondent No.4 in PIL No.183 of 2012, for Respondent No.2 in PIL No.15 of 2010 and PIL No.28 of 2010.

Mr. Rahul Walvekar, for Petitioner in PIL No.15 of 2010, PIL No.28 of 2010 and for Applicant in CAI No.105 of 2014.

Mr. V.P. Malvankar, AGP, 'A' Panel, for Respondent No.1 in all PILs.

Mr. D.M. Gupte, for Respondent No.2 in PIL No.183 of 2012.

Mr. Umesh Pawar i/by Mr. Tejpal S. Ingale, for Respondent No.3 in PIL No.183 of 2012.

Mr. Ramesh D. Rane, for Respondent No.6 in PIL No.183 of 2012.

Ms. Shyamali Gadre i/by M/s. Little & Co., for Respondent No.7 in PIL No.183 of 2012.

Ms. Sharmila U. Deshmukh, for Respondent No.3 in PIL No.15 of 2010 and PIL No.28 of 2010.

CORAM : A.S. OKA & A.S. CHANDURKAR, JJ.

SUBMISSIONS HEARD ON : 13th AUGUST, 2014

ORDER PRONOUNCED ON : 10th NOVEMBER, 2014

(Signed Order pronounced by Oka, J. at Mumbai in accordance with Rule 1(i) of Chapter XI of the Bombay High Court Appellate Side Rules, 1960 as Chandurkar, J. is sitting at Nagpur Bench)

ORDER (PER A.S. OKA, J.):-

. Rule. Advocates mentioned above representing the concerned Respondents waive service. We have heard the learned counsel appearing for the Petitioners, the learned counsel representing

various Respondents as well as the learned AGP for the State on the prayer for issuing interim directions against third to sixth Respondents in PIL No.183 of 2012 (The Maharashtra Pollution Control Board, The Municipal Corporation for the City of Kolhapur, and the Ichalkaranji Municipal Council). We are issuing Rule on interim relief returnable on 22nd December, 2014 for the purposes of issuing interim directions against the other Respondents and further interim directions against all the Respondents.

2. By these Petitions, the Petitioners have invited the attention of the Court to the pollution caused to River Panchaganga due to release of untreated sewage water from Kolhapur and Ichalkaranji Cities into the River and various other factors. The Petitions raise concern regarding the pollution of river Panchaganga due to various factors. It is pointed out that due to pollution there was a mass spread of epidemic of Hepatitis. The third Respondent in PIL No.183 of 2012 is the Maharashtra Pollution Control board (for short "MPCB"). The fourth Respondent in the PIL No.183 of 2012 is the Municipal Corporation of City of Kolhapur constituted under the provisions of the Maharashtra Municipal Corporations Act, 1949. The fifth Respondent is the Municipal Council of Ichalkaranji which is constituted under the provisions of the Maharashtra Municipal Councils, Nagar Panchayats and Industrial Townships Act, 1965. The aforesaid Respondents have

been described with reference to their status in PIL No.183 of 2012. The cities of Kolhapur and Ichalkaranji are adjacent urban bodies. Kolhapur being the Municipal Corporation area has a larger population of more than 5,00,000. Both the cities are located on the bank of the Panchaganga River. As noted by the CSIR National Environment Engineering Research Institute (NEERI), the Panchaganga River originates in Western Ghats. It is a major tributary to the river Krishna. The Panchaganga river starts from prayag sangam of four streams known as Kasari, Kumbhi, Tulsi and Bhogawati. On north of Kolhapur it has a wide alluvial plain. Thereafter, it resumes its course eastwards. From Kolhapur, it flows for about 65 kilometers till it falls into the Krishna River at Kurundvad. The said proposal of NEERI records that increasing pollution of the river has caused serious health hazards to the residents in terms of high incidents of jaundice and other deceases. Ichalkaranji town gets water supply from River Panchangaga as well as Krishna. In the year 2012, more than 500 new cases of jaundice were reported in the city of Ichalkaranji. The main reason for pollution, as stated by NEERI, is the inadequate domestic waste water treatment facilities in the cities and other areas.

3. In the Petitions, it is pointed out that the areas falling within the limits of the fourth Respondent Corporation and the fifth

Respondent Municipal Council are not the only areas contributing to the pollution of River Panchaganga. It is pointed out that on the bank of the said River or adjacent to the said River, there are 174 villages, various industrial estates and various sugar factories and distilleries. These villages and industries are also contributing to the pollution.

4. Article 48A of the Constitution of India was made a part of the Directive Principles of State Policy in the year 1976 which lays down that the State shall endeavour to protect and improve the environment. In the year 1976, Part IVA dealing with Fundamental Duties was included in the Constitution of India. Article 51A of the Constitution of India provides for the fundamental duties of the citizens. Clause (g) of Article 51A of the Constitution of India reads thus:

> "51A. Fundamental duties.
> It shall be the duty of every citizen of India
> (a) .....
> (b) .....
> (c) .....
> (d) .....
> (e) .....
> (f) .....
> (g) To protect and improve the natural environment including forests, lakes, rivers and wild life, and to have compassion for living creatures."

The Apex Court has time and again held that the public law doctrine is applicable to India. The Apex Court in the case of *M.C. Mehta v. Kamal Nath*[1] held thus:

1 (1997)1SCC 388

34. Our legal system — based on English common law — includes the public trust doctrine as part of its jurisprudence. The State is the trustee of all natural resources which are by nature meant for public use and enjoyment. **Public at large is the beneficiary of the seashore, running waters, airs, forests and ecologically fragile lands. The State as a trustee is under a legal duty to protect the natural resources.** These resources meant for public use cannot be converted into private ownership.

35. We are fully aware that the issues presented in this case illustrate the classic struggle between those members of the public who would preserve our rivers, forests, parks and open lands in their pristine purity and those charged with administrative responsibilities who, under the pressures of the changing needs of an increasingly complex society, find it necessary to encroach to some extent upon open lands heretofore considered inviolate to change. The resolution of this conflict in any given case is for the legislature and not the courts. If there is a law made by Parliament or the State Legislatures the courts can serve as an instrument of determining legislative intent in the exercise of its powers of judicial review under the Constitution. But in the absence of any legislation, the executive acting under the doctrine of public trust cannot abdicate the natural resources and convert them into private ownership, or for commercial use. The aesthetic use and the pristine glory of the natural resources, the environment and the ecosystems of our country cannot be permitted to be eroded for private, commercial or any other use unless the courts find it necessary, in good faith, for the public good and in public interest to encroach upon the said resources."

(emphasis added)

In another decision in the case of *Fomento Resorts & Hotels Ltd. v. Minguel Martins*[2], the Apex Court held thus:

"59. The Indian society has, since time immemorial, been conscious of the necessity of protecting environment and ecology. The main motto of

2 (2009)3 SCC 571

social life has been "to live in harmony with nature". Sages and saints of India lived in forests. Their preachings contained in vedas, upanishadas, smritis, etc. are ample evidence of the society's respect for plants, trees, earth, sky, air, water and every form of life. It was regarded as a sacred duty of everyone to protect them. In those days, people worshipped trees, rivers and sea which were treated as belonging to all living creatures. The children were educated by their parents and grandparents about the necessity of keeping the environment clean and protecting earth, rivers, sea, forests, trees, flora, fauna and every species of life.

60. The Constitution of India, which was enforced on 26-1-1950 did not contain any provision obligating the State to protect environment and ecology, but the people continued to treat it as their social duty to respect the nature, natural resources and protect environment and ecology. After almost three decades of independence, the legislature recognised the importance of protecting and improving environment and safeguarding forests and wildlife and Article 48A was inserted in Part IV of the Constitution by the Constitution (Forty-second Amendment) Act, 1976 whereby a duty was imposed on the State to "endeavour to protect and improve the environment and safeguard forests and wildlife of the country". By the same amendment Article 51A was inserted in the form of Part IVA which enumerates fundamental duties of every citizen. Article 51A(g) declares that it shall be the duty of every citizen of India "to protect and improve the natural environment including forests, lakes, rivers and wildlife, and to have compassion for living creatures".

Thereafter, the courts repeatedly invoked Articles 48A and 51A for protecting environment and ecology and several orders were passed in public interest litigation mandating the State to take action for protecting forests, rivers and antipollution measures.

61. **The importance of the public trust doctrine was also recognised by this Court and the same was applied for protecting natural resources which have been treated as public properties and are held by the Government as trustee of the people."**

(emphasis added)

The concerned Respondents viz. The fourth Respondent Corporation and the fifth Respondent Council, the Maharashtra Pollution Control Board, the State of Maharashtra and the Maharashtra Industrial Development Corporation are the State within the meaning of Article 12 of the Constitution of India and, therefore, it is their duty to protect and improve the environment. They are under an obligation to keep the river Panchaganga free of pollution. Moreover, the Municipal Authorities have legal obligations under the concerned Municipal laws. There is a corresponding duty in the citizens to protect and improve the natural environment including the lakes and rivers. In such matters, the citizens have a major role to play as some of them actively and also passively contribute to the pollution.

5. The allegations made in the Petition can be broadly summarized as under:-

A] The fourth Respondent Corporation discharges 100 million litres sewage water per day in Panchangaga River through various Nallas (streams) including Dudhali and Jayanti Nallas.

What is discharged is untreated waste water generated in the City. The same is the case with Ichalkaranji city;

B] Neither the fourth Respondent nor the fifth Respondent are implementing the provisions of the Water (Prevention and Control of Pollution) Act, 1974 (for short "Water Act");

C] Ichalkaranji is a town which is well known for large number of Power Looms. The Power Looms discharge polluted/ acidic water in the gutters which is eventually carried to the Panchaganga River;

D] The waste water from various Nallas including nallas known as Kala Odha and Chandur Nalla in the city of Ichalkaranji is discharged in Panchaganga River. What is discharged is untreated sewage water;

E] It is pointed out that Kolhapur and Ichalkaranji towns have population of about more than 5 lakhs and 3 lakhs respectively and surrounding rural area has population of 2 to 3 lakhs;

F] Polluted water is drawn by the Ichalkaranji Municipal Council from Panchaganga River for the purposes of supply to the citizens of Ichalkaranji. ;

G] Effluent Treatment Plan set up by the Ichalkaranji Municipal Council is not working properly and hence, untreated sewage is discharged into the River from Kala Odha pump house;

H] There are no water filtration tanks. Both the fourth and fifth Respondents are not complying with the provisions of the Municipal Solid Waste (Management and Handling) Rules 2005; and

I) The performance of the existing Sewage Treatment Plant (STP) at Kasba Bawda in Kolhapur is very poor. A new plant is proposed at the site having capacity of 75 MLD. The sewage

treatment plant at Ichalkaranji has limited capacity of 20 MLD. It has a very old sewage system;

6. The main prayer is for directing the Respondents to stop releasing untreated sewage water from Kolhapur and Ichalkaranji into the river Panchaganga and take steps for preventing pollution of Panchaganga. Various other prayers have been sought regarding implementation of the Water Act including an action of initiating criminal proceedings. There is a prayer to direct the concerned Respondents to implement directions of this Court in Writ Petition No.929 of 1997 on 16th December, 1997 (*Dhanajirao Jivarao Jadhav and others vs. State of Maharashtra and others*)[3].

7. On 10th May, 2013, an order was passed by the Division Bench of this Court directing the Maharashtra Pollution Control Board to take all steps and action to ensure implementation of the directions issued by it. The Maharashtra Pollution Control Board (for short "MPCB") was directed to issue further directions in accordance with law. Thereafter, PIL Nos.15 and 28 of 2010 were clubbed with this Petition. We must note here that this Court had issued directions to NEERI to submit a report. By order dated 6th December, 2013, this Court appointed NEERI to make a study and submit a report.

3 1997 SCC OnLine Bom 551

Paragraphs 2 to 4 of the said order read thus :-

"2. It is not desirable to wait till the end of March, 2014 to see whether the Kolhapur Municipal Corporation complies with its statement made in the affidavit. In view of the seriousness of the matter, it is necessary to take protective and remedial action immediately. We therefore appoint NEERI to make a report and submit the same to this Court on all relevant issues regarding the pollution in the Panchaganga river including in respect of the above questions.

3. NEERI is requested to make a comprehensive report on all issues relating to pollution of the Panchaganga river, identify the causes for the same, suggest remedial measures and opine whether the present projects being undertaken by the authorities have sufficient capacity and technical capability to meet the requirements projected by the Kolhapur Municipal Corporation and the Ichalkaranji Municipal Council and the requirements stipulated by the MPCB and applicable statutory norms. The report must indicate all factors that are contributing to the pollution.

4. All parties shall furnish any information that NEERI may require in this regard. NEERI shall be at liberty to seek directions and orders from this Court to ensure compliance with this order. NEERI will be entitled to seek information from any relevant party and not merely the parties to this Petition."

8. Paragraph 5 of the said order directs that costs and fees of NEERI shall be paid equally by the fourth and fifth Respondents subject to further orders.

9. The order dated 20th December, 2013 reads thus :-

> "Dr. Shivani Dhage, former Deputy Director and presently appointed by NEERI as water expert appeared before us and submitted a project report dated December, 2013. The same is taken on record and marked 'X' for identification. It is clarified that the project to be undertaken by NEERI shall be from Prayag Chikhali and Kurundvad, which is a stretch of about 45 kms and the catchment area. The MPCB has agreed to ensure that NEERI has access to any of the industries that may be required to be inspected for the purpose of implementing the project irrespective of where the industry/factory is located. The MPCB shall ensure that permission is given to NEERI for this purpose without further orders of this Court.
>
> 2. The affidavit sought to be filed by Respondent No. 4 shall be filed in the office.
>
> 3. The affidavit claims that the order dated 6th December, 2013 was complied with so far as it related to the commission of the pumping station at Jayanti Nala by Respondent No. 4.
>
> 4. Complaints have been made on behalf of the Petitioner regarding the discharge of effluent by certain sugar factories. The Petitioner is at liberty to move to the

MPCB for appropriate directions.

5. Needless to clarify that all the authorities including MPCB are bound to take any action in accordance with law and the pendency of this Public Interest Litigations will not prevent them from doing so.

6. In the event of any proceedings being filed against the MPCB by any party, industry or factory in respect of the action taken by the MPCB, MPCB shall give notice thereof to the Petitioner's Advocate.

7. Stand over to 15th January, 2014."

10. By the said order, project proposal of study to assess the Kolhapur and Ichalkaranji sewage pollution of Panchaganga River submitted by NEERI was taken on record.

11. Thereafter, preliminary recommendations (Study Report of April 2014) and Supplementary Action Plan for abatement of Panchaganga river of April, 2014 made by NEERI were placed on record and affidavits have been filed by the fourth and fifth Respondents dealing with the implementation of the said report.

12. Considering the magnitude of the pollution caused to the River Panchaganga, in principle, we find no difficulty in coming to the conclusion that the interim recommendations of the NEERI and the final recommendations which may be submitted by NEERI will have to

be implemented subject to the directions which may be issued from time to time by this Court. The main causes of pollution can be broadly divided under the following categories:-

(a) Pollution created by the cities of Ichalkaranji and Kolhapur due to various reasons such as disposal of untreated sewage water in the river and lack of proper STP or ETP facilities therein;

(b) The pollution caused by the actions or omissions of the citizens;

(c) The pollution caused by the industries including the sugar and Power Loom industries;

(d) Pollution created by the villages adjacent to River Panchaganga;

(e) Pollution created by industries in the industrial estates set up by the Maharashtra Industrial Development Corporation (MIDC) .

13. Before we issue interim directions, it will be necessary to make a reference to the stand taken by the Maharashtra Pollution Control Board (MPCB). There are various affidavits filed by the MPCB. There is an affidavit dated 13th March, 2013 filed by Shri Suryakant S. Doke, the Regional Officer of the Maharashtra Pollution Control Board, Kolhapur. The said affidavit extensively deals with various issues

concerning the fourth and fifth Respondents as well as the pollution created by the industries. What is stated in the affidavit can be summarized as under :-

[A] MPCB has prepared Kolhapur action plan to prevent pollution of river Panchaganga in consultation with the fourth Respondent which requires the fourth Respondent to arrest the flow of 12 nallas carrying untreated sewage to Panchaganga River, to upgrade the existing STP and to install additional 50 MLD STP at Kasba Bawda. It is stated that the fourth Respondent has not adhered to the provisions of the said action plan;

[B] Under the provisions of the Water Act, directions were issued to the fourth Respondent Corporation on 20th November, 2000 and 16th January, 2004. Again on 13th April, 2010, directions were issued to the fourth Respondent Municipal Corporation. The said directions are set out in clause K of the affidavit which read thus :-

" i) To submit concrete proposal alongwith time bound program for the installation of the integrated STPs with the sanction of funds by the State and Central Govt with Bar Chart to the MPCB.

ii) To prepare a concrete proposal for the remaining 30% domestic effluent collection and treatment thereof and get approval from various authorities, so that the MPCB will consider release of matching Fund of Rs.16 lakhs

as approved earlier for the alternate efficacious technology being finalized by the Kolhapur Municipal Corporation, provided such a proposal is submitted to MPCB for further approval.

iii) To diver/trap 12 nallas and by proper Bhadhara, give proper chemical dozing on the lines of Kerala Treatment as agreed during the course of hearing, so as to avoid discharge of untreated, under-treated sewage into River Panchganga.

iv) The Kolhapur Municipal Corporation shall apply for renewal of consent giving details of the pollution control devices and solid waste management alongwith the arrears of fees with time bound concrete proposal within 30 days time.

v) To furnish Bank Guarantee of Rs.5 Lakhs ensuring the compliance of above conditions, consent conditions, authorization and environmental standards, directions issued by the Board from time to time which shall be valid for a period of three years to be submitted within 15 days time."

[C] It is stated that the fourth Respondent Corporation did not comply with the said directions;

[D] On 24th November, 2011, directions were issued to the fourth Respondent Corporation under the provisions of the Water Act, the Air (Prevention and Control of Pollution) Act, 1981 and the Municipal Solid Waste (Management and Handling) Rules,

2000 (for short the Said Rules of 2000);

[E] On 19th December, 2011, MPCB issued exhaustive directions containing long term and short term measures to the fourth Respondent Municipal Corporation. However, it is stated that notwithstanding the grant of number of opportunities, the Municipal Corporation has not complied with substantial part of the said directions. It is stated that the fourth Respondent has not made operational the Solid Waste Processing Plant at Kasba Bawda. It is stated that steps have not been taken to divert various Nallas to ensure that untreated sewage water is not discharged in the river. The construction of STP at Kasba Bawda has not adhered to the time bound schedule;

[F] Various instances of discharge of huge quantity of untreated sewage effluent in the Panchaganga River have been set out in the affidavit;

[G] Further directions were issued on 15th June, 2012. It is stated that four prosecutions have been lodged against the fourth Respondent Municipal Corporation;

[H] The same affidavit deals with action taken against fifth Respondent Municipal Council. Reliance is placed on proposed directions issued to the Municipal Council on 29th December, 2007. Reliance is placed on further directions issued on 15th

June, 2012 to the said Municipal Council. It is stated that the fifth Respondent Council has not complied with the said directions;

[I] The affidavit also deals with the action taken against the defaulting industries including textile industries;

[J] What is important is that the affidavit states that the fourth Respondent Corporation is generating 96 MLD of sewage out of which only 43.5 MLD of sewage is being given primary treatment. As a result, rest of the sewage which is not even given primary treatment is discharged into Panchaganga River either through Nalla or through pipeline. The treatment given to 43.5 MLD is also inadequate in terms of the standards laid down by the Environment (Protection) Rules, 1986. It is stated that Ichalkaranji generates 40 MLD effluent. It is stated that STP already set up can deal with only 20 MLD sewage everyday. It is stated that STP is not maintained properly. It is stated that only 12 MLD sewage per day is collected and taken to STP. Thus, it is stated that 28 MLD of sewage is being discharged without any treatment in the Panchaganga River. It is stated that as far as pollution to the river is concerned, contribution of fourth Respondent Corporation is 52% and the contribution of the fifth Respondent is 23%. The remaining

contribution is by the other local authorities and industries.

14. What is stated in the affidavit by the MPCB is dealt with by the affidavit of Shri Nitin Desai, Chief Officer of the fifth Respondent Municipal Corporation. It is stated in the affidavit that Ichalkaranji Textile Development Cluster has set up a Common Effluent Treatment Plan (CETP) having capacity of 12 MLD.

15. There is another affidavit filed by Shri Bharat B. Nimbarte, the Joint Director (Water Pollution Control) of the MPCB. Directions issued on 11th June, 2013 under the Water Act to the fourth Respondent Corporation have been set out in the said affidavit. The said directions are :-

(i) KMC has been directed to complete & commission 76 MLD new Kasba Bawda STP's work within the time stipulated in the directions, which will take into consideration major portion of sewage collection, treatment & disposal thereof after complying with the Environmental Standards laid down in the Consent as per Environment (Protection) Rules, 1986. MPCB has given time limit upto August, 2013 as agreed by the KMC during the course of hearing for completing 24 MLD 1st Phase of the STP, out of 76 MLD STP,

(ii) KMC has been further directed to complete 2nd to 4th Phase of STPs at Kasba Bawda by the end of September, 2013; and,

(iii) The remaining phases upto 6th stage to be completed by the end of December, 2013. In the meantime, it has been directed to lift the sewage by making appropriate

lifting arrangement within 45 days time starting from 15/6/2013 and for short term to arrest domestic effluent at various nallas, so as to prevent its discharges into the river Panchganga to the extent possible. Necessary bank guarantees have been asked to be submitted to ensure time bound compliance of the directions issued by the MPCB,

(iv) KMC has to operate & maintain existing STP with primary treatment of 43.5 MLD capacity round'O clock, so as to ensure that pre-treated effluent is disposed off as per consent conditions."

16. Similar directions issued to the Ichalkaranji Municipal Council have been also incorporated in the said affidavit which read thus :-

"(i) IMC has been directed to operate & maintain existing STP of 20 MLD round'O clock, so as to achieve the Environmental Standards and also to take efforts to see that 20 MLD effluent is collected and taken for further treatment to the existing STP as per its capacity.

(ii) IMC has been further directed to provide 12+12 MLD STP as agreed by it on or before March, 2014,

(iii) IMC also agreed that it will arrest Chandur Odha and Kabnoor Nalla with proper Bandharas and regulate the discharge of sewage into the Panchganga river, so as to prevent the pollution of Panchganga river to the extent possible. Also directions given to regulate Kala Odha discharge into the Panchganga river. Necessary bank guarantees have been asked to be submitted to ensure the compliance of directions."

The affidavit incorporates directions issued to industries.

17. Shri Sunil Pawar, Chief Officer of the Respondent dealt with the said directions by filing affidavit dated 11th October, 2013. It is

submitted that DPR for setting up STP of capacity of 24 MLD was submitted to the State Government. The State Government has forwarded the same to Government of India for final sanction. It is contended that all possible steps have been taken by the Municipal Council to minimize the pollution of the river.

18. There is an affidavit dated 10th October, 2014 filed by Shri Manish B. Pawar, the Hydraulic Engineer of the fourth Respondent Corporation. It refers to National River Conservation Plan sanctioned by the National River Conservation Directorate. It deals with various short term and long term measures taken by the said Corporation including making arrangements for artificial ponds for immersion of Ganesh idols.

19. On 27th June, 2014, another affidavit has been filed by Shri Suryakant S. Doke, the Regional Officer of MPCB. The said affidavit has been filed after survey of industries in Panchaganga River Basin in May, 2014. The affidavit summarizes the action proposed to be taken against the industries which are contributing to the pollution of the river Panchaganga.

20. It is necessary to consider the suggestions made by the NEERI. The NEERI has submitted a report in April, 2014 styled as study

report. The study report is accompanied by a supplementary note on action plan for abatement of Panchaganga River. The study report contains recommendations in clauses 15 and 16 (pages 86-91). The recommendations deal with flow of and flows into River Panchaganga, functioning of Wastewater Treatment systems, Industrial Waste water Management Practices, Weeds and Sanitation Issues and introduction of Environmental Management System (EMS) through Public Processes for the fourth and fifth Respondents for Protection of River Panchaganga and Health of Population. The supplementary note submitted by NEERI deals with issues for rejuvenation of River Panchaganga. It records the issues identified for critical evaluation and immediate attention for rectification so that the river quality will improve and meet the stipulated class A-II standards.

21. There are responses filed by the fourth Respondent Corporation and the fifth Respondent Council to the recommendations of NEERI. In principle, both the local authorities seem to have accepted the recommendations of NEERI. There is some dispute whether recommendations which are claimed to be implemented are really implemented.

22. There is no dispute between the parties that elaborate long term measures are required to be taken for preventing the pollution of

Panchaganga River and for rejuvenation of river Panchaganga so that the river water quality will improve and meet the stipulated A-II class standard. Long term as well as short term measures will have to be taken by all concerned. Steps will have to be taken not only by the fourth and fifth Respondents but by several agencies involved in the process. It is true that the major role will have to be played by the third Respondent MPCB, fourth Respondent Kolhapur Municipal Corporation and fifth Respondent Ichalkaranji Municipal Council.

23. At this stage, we must note here that a Division Bench of this Court in the case of *Dhanajirao Jivarao Jadhav and others versus State of Maharashtra and others* notes the problems faced by Kolhapur in paragraph 17 which reads thus:

> "17. From the above narration, the following picture emerges:—
>
> (i) That the city of Kolhapur was facing a very grave and serious problem of supply of polluted drinking water which fact has been acknowledged by the third respondent also.
>
> (ii) The reasons for the heavy pollution was attributed to discharge of untreated sewage and sullage directly into the river Panchganga primarily through Dudhali and Jayanti Nalas coupled with the breakdown of existing sewage Treatment Plant.
>
> ....."

The Division Bench issued elaborate directions in terms of paragraph 26 of the said decision. The said directions are essentially against MPCB

(the third Respondent in the decision) based on the provisions of the Water Act. MPCB is bound by the said directions. Directions were also issued to the fourth Respondent Corporation (the fifth Respondent in the decision) . The relevant directions read thus:

"26. In the circumstances, the petition is disposed of with the following directions:—

(i) The third respondent shall periodically monitor the level of pollution of the water of river Panchganga at the three sources of confluence and also at the discharge point of the treated effluents and shall ensure supply of potable water to the city of Kolhapur. The third respondent shall, every two months, publish in the local newspaper the reports of the test carried out.

(ii) The fifth respondent, Maharashtra Pollution Control Board, would keep a strict vigilance on the activities of the industries discharging effluents in rivers and see that standards prescribed under the various enactments, including the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981, are maintained.

The fifth respondent should also maintain a strict vigil on the activities of the following industries, so that untreated effluents are not discharged in River Panchganga:

(1) Rajaram Sahakari Sakhar Karkhana Ltd., Kasba Bawda.

(2) Datta Sahakari Sakhar Karkhana Ltd., Asurle-Purle.

(3) Kumbhi-Kasari Sahakari Sakhar Karkhana Ltd., Kuditre.

(4) Bhogawati Sahakari Sakhar Karkhana Ltd., Shahunagar-Parite.

(5) United Distilleries, C/o Bhagawati Sahakari Sakhar Karkhana Ltd., Shahunagar-Parite.

(6) Vhatkar Industries, Jawahar Nagar.

(7) Tanning Industries (Tanneries) situated at Jawaharnagar, Subhashnagar and Udyamnagar.

(8) C.R. Hospital.

(9) Fertilizer Industry, Yawluj.

Periodical visits should be made by the higher officer of the fifth respondent so that, if there is any connivance on the part of the concerned persons, it could be detected and immediate action taken. Report of such inspection should be given to the Committee of Experts constituted as per the directions given below:—

Immediate action should be taken by respondents Nos. 3 and 5 jointly to see that untreated sewage is not directly discharged into river Panchganga from sources, including the Dudhali and Jayanti Nallas."

The said directions are still binding as the same continue to remain in operation.

24. In PIL 183 of 2012, even the Zilla Parishad of Kolhapur has filed an affidavit in which an assurance is given to take all possible steps which could be taken by the Zilla Parishad. There are 174 village panchayat areas adjacent to banks of the Panchaganga River. The State Government and the Zilla Parishad will have to exercise statutory powers by issuing necessary directions to the village panchayats. The recommendations of the NEERI contain suggestions regarding working of CETP. There are two industrial estates of MIDC near the bank of River Panchaganga. Therefore, even the MIDC has a role to play.

25. Thus, several statutory agencies including the State Government have a role to play in preventing pollution to River

Panchaganga. However, statutory authorities or agencies involved cannot devise its own methods to deal with the issues. All the concerned authorities will have to implement one comprehensive plan. A very well reputed expert agency like NEERI having a vast experience in the field has been already appointed. Only way to do the task effectively is to implement the recommendations of NEERI in the reports which are already on record and the further recommendations in the further interim reports and final report which may be submitted by NEERI.

26. At the same time, the citizens have a role to play. Even the citizens, due to lack of awareness contribute to the pollution of the River. The pollution can be created by immersion of Idols made up of plaster of paris. "Nirmalya" and other organic material is discharged in the river in huge quantity. The river is used for immersion of ashes. Garbage is thrown either in the river or on the bank of the river. Vehicles are taken to the banks of the river and the river water is used for washing the vehicles. Apart from undertaking awareness programs, several preventive measures will have to be taken. On this aspect, this Court will be guided by the detailed directions issued by order dated 7th March, 2014 in PIL No.176 of 2012 for preventing pollution to River Godavari.

27. The interim directions will have to be issued broadly on the following points :-

(1) Implementation of recommendations of NEERI both interim and final. Implementation by the MPCB of the directions issued by this Court in the case of *Dhanajirao Jivarao Jadhav*;

(2) Implementation by the industries and all concerned authorities of the statutory directions issued by MPCB;

(3) Various steps to be taken by the fourth Respondent Municipal Corporation and fifth Respondent Municipal Council;

(4) Various steps to be taken by the fourth and fifth Respondents, MIDC, Zilla Parishad and the State Government for ensuring participation of citizens in awareness programs;

(5) Security measures including availability of sufficient police personnel;

28. The interim directions which we propose to issue will have to be scrupulously implemented. Therefore, continuous monitoring will be necessary. This object can be achieved by constituting a Committee headed by the Divisional Commissioner, Pune who shall be the Chairman of the Committee. The Committee shall consist of following members apart from the Chairman :-

(a) The Commissioner of the Kolhapur Municipal Corporation;

(b) The Collector of the District Kolhapur;

(c) The Chief Officer of Ichalkaranji Municipal Council;

(d) An appropriate officer of higher level nominated by the MPCB;

(e) The Chief Executive Officer of Zilla Parishad, Kolhapur;

(f) A representative of NEERI to be nominated by NEERI;

(g) An expert in the field appointed by the Divisional Commissioner after consulting the Petitioners and the fourth and fifth Respondents;

(h) such other persons as may be nominated by the Divisional Commissioner.

29. The Divisional Commissioner, Pune shall appoint any Revenue Officer in his office not below the rank of a Deputy Collector to act as Co-ordinator/Secretary of the Committee. The Divisional Commissioner shall complete the constitution of the Committee within a period of one month from today. It will be open for the said Committee to constitute Sub-Committees.

30. We direct the fourth Respondent Municipal Corporation and fifth Respondent Municipal Council to make available necessary secretarial and other staff to the Committee on permanent basis as per the requisitions which may be issued by the Divisional Commissioner. It will be the responsibility of the said two municipal authorities to make arrangements for providing vehicles to the members of the Committee whenever they make site visits. Arrangements for their stay shall be made by the said two authorities. The other infrastructure, stationary, printers, etc. shall be made available by both the said Respondents to the said Committee.

31. The District Superintendent of Police shall appoint an officer not below the rank of Deputy Superintendent of Police. The officer so appointed shall be responsible for providing security to the municipal staff as well as staff of the MPCB for the purposes of implementation of the directions issued under this order as well as the directions issued by the Committee. Appropriate number of police officers and police constables shall be assigned specifically for this work by the Deputy Superintendent of Police. Appropriate action shall be taken by the Superintendent of Police within a period of one month from today. The Deputy Superintendent of Police so appointed shall attend the meetings of the Committee as and when called upon by the Committee. He shall ensure that the police effectively assist all concerned authorities in the implementation of the directions of this Court.

32. We must note here that there is a Civil Application being Civil Application No.60 of 2014 filed by the Kolhapur Municipal Corporation in which a prayer is made for extending the time to commission 76 MLD capacity STP at Kasba Bawda till 31st May, 2014. The affidavit of Shri Rajendra Kalgonda Patil, the Environmental Officer of the said Municipal Corporation dated 4th July, 2014 records that 90% of the work of the STP at Kasba Bawda is completed. By disposing of

the Civil Application, we propose to grant time to the fourth Respondent Municipal Corporation to complete and commission the STP by 31st January, 2015, if already not done. No further time shall be granted.

33. At this stage, we issue the following interim directions: -

(I) The appointment of NEERI in terms of the earlier order passed by this Court on 6th December, 2013 shall continue till further orders;

(II) The reports and the recommendations made therein so far submitted by NEERI are accepted. NEERI shall submit the final report containing the recommendations as expeditiously as possible;

(III) The petition shall be fixed under the caption of "Directions" on 22nd December, 2014 when representative of the NEERI shall make a statement regarding the possible outer limit within which the report shall be submitted. Payment of costs and charges payable to NEERI shall be made by the fourth and fifth Respondents in equal proportions. This order shall be

communicated to NEERI by the Advocate for the fourth Respondent;

(IV) We direct the Maharashtra Pollution Control Board, the Kolhapur Municipal Corporation, the Ichalkaranji Municipal Council, the Zilla Parishad, Kolhapur and the State Government to take all possible steps to implement the recommendations in the study report of NEERI submitted in April, 2014 as well as in the supplementary note on action plan for abatement of Panchaganga River;

(V) The Divisional Commissioner, Pune shall constitute a Committee headed by him as its Chairman. The Committee shall consist of following members apart from the Chairman :-

(a) The Commissioner of the Kolhapur Municipal Corporation;

(b) The Collector of the District Kolhapur;

(c) The Chief Officer of Ichalkaranji Municipal Council;

(d) An appropriate officer of higher level nominated by the MPCB;

(e) The Chief Executive Officer of Zilla Parishad, Kolhapur;

(f) A representative of NEERI to be nominated by NEERI;

(g) An expert in the field appointed by the Divisional Commissioner after consulting the Petitioners and the fourth and fifth Respondents;

(h) Such other persons as may be nominated by the Divisional Commissioner.

(VI) The Divisional Commissioner, Pune shall appoint any Revenue Officer in his office not below the rank of a Deputy Collector to act as the Secretary of the Committee. The Divisional Commissioner shall complete the constitution of the Committee within a period of one month from today. It will be open for the said Committee to constitute various Sub-Committees.

(VII) We direct the fourth Respondent Municipal Corporation and fifth Respondent Municipal Council to make available office premises, necessary secretarial and other staff to the Committee on permanent basis at Kolhapur and Ichalkaranji as per the requisitions which may be issued by the Divisional Commissioner. It will be the responsibility of the said two municipal authorities to make arrangements for providing vehicles to the members of the Committee

whenever they make site visits. Arrangements for their stay shall be made by the said two authorities. The other infrastructure, stationary, printers, etc. shall be made available by both the said Respondents to the said Committee.

(VIII) The District Superintendent of Police, Kolhapur shall appoint an officer not below the rank of Deputy Superintendent of Police. The officer so appointed shall be responsible for providing protection to the municipal staff as well as staff of the MPCB for the purposes of implementation of the directions issued by this Court as well as the directions issued by the Committee. Appropriate number of police officers and police constables shall be assigned specifically for this work by the Deputy Superintendent of Police. Appropriate action shall be taken by the Superintendent of Police within a period of one month from today. The Deputy Superintendent of Police so appointed shall attend the meetings of the Committee as and when called upon by the Committee. He shall ensure that the police personnel so appointed effectively assist all concerned authorities in the implementation of the

directions of this Court.

(IX) The committee headed by the Divisional Commissioner (for short "the Committee") shall monitor the implementation of the recommendations of NEERI as well as the implementation of various interim directions issued by this Court from time to time. The Committee shall call for periodical reports from all concerned Respondents on implementation of the directions issued by this Court from time to time. Quarterly reports shall be submitted by the said Committee to this Court as regards the implementation of the orders of this Court as well as the recommendations of the NEERI. It will be open for the Committee to make its own suggestions on all the aspects. First of such quarterly reports on the progress made till 10th February 2015 shall be submitted on or before 28th February, 2015. For consideration of the first report, the Petition shall be fixed on 9th March, 2015 under the caption of "Directions";

(X) We make it clear that the Maharashtra Pollution Control Board and all concerned shall implement the directions

issued by this Court by Judgment and Order dated 16th December, 1997 in the case of *Dhanajirao Jivarao Jadhav & Ors. Vs. State of Maharashtra & Ors.* ;

(XI) We direct the fourth and fifth Respondents and all other parties to the Petition to implement the statutory directions already issued under the Water Act as well as other enactments and which will be hereafter issued by the Maharashtra Pollution Control Board. If the directions are not implemented, MPCB shall take action against the defaulters in accordance with law;

(XII) We direct the fourth and fifth Respondents to prepare and implement comprehensive awareness programs for the citizens to ensure that they perform their fundamental duty. The fourth and fifth Respondents shall take help of local NGOs as well as school and college students for implementation of the public awareness programs. Both the fourth and fifth Respondents with the assistance of the local Law and other Colleges and the District or Taluka Legal Services Authority shall organize seminars/ street shows as a part of awareness campaign;

(XIII) We direct the fourth and fifth Respondents to display boards of adequate size at strategic locations in both the cities calling upon the members of the public not to throw garbage or any material whatsoever in the river. The boards shall display an appeal to the members of the public to perform their fundamental duty to maintain the River Panchaganga free of pollution. They shall make such appeal through the print and electronic media at regular intervals;

(XIV) We direct the fourth and fifth Respondents to make available facility of sufficient number of temporary artificial ponds at various locations for immersion of Ganesh and other idols during the concerned festive seasons. The fourth and fifth Respondents shall make a public appeal to the citizens to use the facility of artificial ponds. Both the fourth and fifth Respondents shall provide sufficient number of permanent artificial ponds for immersion of ashes and other organic material during the course of traditional obsequies. Adequate publicity shall be given in media as well as by erecting boards

near the bank of river that such facilities are available. Board shall contain fervent appeal to members of the public to use the artificial ponds.

(XV) As regards the immersion of Nirmalya and other organic material, in addition to above, large pots shall be kept at the advantageous locations on the bank of the River with display boards of a large size containing an appeal to the members of the public not to throw the Nirmalya and other organic material in to the river water and discharge the same in the pots specifically provided for the purposes. The fourth and fifth Respondents shall erect barricades at relevant entry points to the bank of the river to ensure that the vehicles are not taken near the riverbed for the purposes of washing;

(XVI) Both the Municipal Authorities shall consider of creating special cells for implementation of these directions. For that purpose, they will be entitled to apply to the State for creation of additional posts;

(XVII) The Zilla Parishad, Kolhapur and the State Government

shall consider of issuing directions to all concerned local village panchayats to take all steps as directed to be taken by the fourth and fifth Respondents. Both of them shall submit action taken reports on or before 21st December, 2014. The State Government shall submit a report before the said date as regards the constitution of the Committee;

(XVIII) For the purposes of considering the question of issuing interim directions against Respondent Nos.7 to 9 in PIL No.183 of 2012, the Petition shall be listed on 22nd December, 2014 under the caption of "Directions". The Petitioners in PIL No.183 shall ensure that service is effected on the 8th and 9th Respondents through Court as well as privately;

(XIX) If the fourth Respondent Corporation has not yet completed and not commissioned the work of 76 MLD capacity STP AT Kasba Bavda, the same shall be done on or before 31st January 2015. Civil Application No.60 of 2014 is accordingly disposed of;

(XX) The advocates representing fourth and fifth Respondents shall serve an authenticated copy of this order to the Divisional Commissioner, Kolhapur as well as to NEERI. All concerned to act upon an authenticated copy of this order.

(A.S. CHANDURKAR, J) **(A.S. OKA, J)**

Annexure-15

विषय :- जनहित याचिका क्र.१८३/२०१२ मध्ये मा.उच्च न्यायालयाने दिनांक १० नोव्हेंबर २०१४ रोजी दिलेला निर्णय.

क्र.गाह-२/गणीन-को/सीआर/ ०८/२०१४
आयुक्त पुणे विभाग पुणे यांचे कार्यालय
शिवाजीनगर, पुणे. ४११ ००१
दिनांक. २६/११/२०१४

आदेश :

कोल्हापूर जिल्ह्यातील पंचगंगा नदीच्या प्रदूषणाबाबत करावयाच्या उपाययोजनांचा देखरेख व समन्वयासाठी मा.उच्च न्यायालयात दाखल झालेल्या जनहित याचिका क्र.१८३/२०१२ मध्ये मा.उच्च न्यायालयाने दिलेल्या निर्देशाप्रमाणे विभागीय आयुक्त पुणे यांच्या अध्यक्षतेखाली समिती गठीत करावयाची आहे.

मा.उच्च न्यायालयाकडील निर्णया-नुसार खालीलप्रमाणे समिती गठीत करणेत येत आहे.

१	विभागीय आयुक्त पुणे	अध्यक्ष
२	आयुक्त कोल्हापूर महानगरपालिका	सदस्य
३	जिल्हाधिकारी कोल्हापूर	सदस्य
४	मुख्य कार्यकारी अधिकारी, जिल्हा परिषद कोल्हापूर	सदस्य
५	पोलिस अधीक्षक, कोल्हापूर	सदस्य
६	प्रादेशिक अधिकारी, महाराष्ट्र प्रदुषण नियंत्रण मंडळ, कोल्हापूर	सदस्य
७	उपजिल्हाधिकारी (महसूल), विभागीय आयुक्त कार्यालय पुणे	समन्वयक / सचिव
८	मुख्याधिकारी, इचलकरंजी नगरपरिषद	सदस्य

या समितीमध्ये NEERI या संस्थेकडून नामनिर्देशित करावयाचा एक प्रतिनिधी सदस्य म्हणून तसेच याचिकाकर्ते, आयुक्त, कोल्हापूर महानगरपालिका आणि मुख्याधिकारी, इचलकरंजी नगरपरिषद यांच्यातून प्रत्येकी एक सदस्य असे दोन सदस्य नियुक्त करावयाचे आहेत या दोन सदस्यांची नियुक्ती आजतागायत स्वतंत्रपणे करण्यात येईल.

संबंधित जनहित याचिका क्र.१८३/२०१२ मध्ये दि.१०/११/२०१४ रोजी झालेल्या निर्णयाची प्रत जोडली आहे.

(विकास देशमुख)
विभागीय आयुक्त पुणे, विभाग पुणे.

प्रत :- १) आयुक्त कोल्हापूर महानगरपालिका
२) जिल्हाधिकारी कोल्हापूर
३) मुख्य कार्यकारी अधिकारी, जिल्हा परिषद कोल्हापूर
४) पोलिस अधीक्षक, कोल्हापूर
५) प्रादेशिक अधिकारी, महाराष्ट्र प्रदुषण नियंत्रण मंडळ, कोल्हापूर
६) उपजिल्हाधिकारी (महसूल), विभागीय आयुक्त कार्यालय पुणे
७) मुख्याधिकारी, इचलकरंजी नगरपरिषद

Read – Order of Hon'ble High Court in PIL 183/2012 dated 10.11.2014.

No./MH-2/JAMIN-KO/CR/08/2014
Divisional Commissioner Office
Vidhan Bhavan, Pune – 411001
Date – 26.11.2014

Order:

As per the directions of Hon'ble High Court in PIL No. 183/2012 to constitute committee for Remedial Action Plan regarding Panchaganga River in Kolhapur district.

As per the Hon'ble High Court constituted committee of following members.

1	Divisional Commissioner Pune	Chairman
2	Commissioner Kolhapur Municipal Corporation	Member
3	District Collector Kolhapur	Member
4	Chief Executive Officer, Zilha Parishad Kolhapur	Member
5	Superintendent of Police Kolhapur	Member
6	Regional Office, M. P. C. Board, Kolhapur	Member
7	Deputy Collector (Revenue), Divional Commissioner Office, Pune	Member Secretary
8	Chief Officer, Ichalkaranji Municipal Council	Member

For nomination of one member from NEERI & one member will be decided after to discussion of petitioner, Commissioner Kolhapur Municipal Corporation & Chief Officer, Ichalkaranji Municipal Council & order of both two member to be issued separately.

Along with attached order of Hon'ble High Court PIL No. 183 of 2012 dated 10.11.2014.

Sd/-

(Vikas Deshmukh)
Divisional Commissioner Pune, Division
Pune.

Copy to :- 1. The Commissioner Kolhapur Municipal Corporation
2. District Collector, Kolhapur
3. Chief Executive Officer, Zilha Parishad, Kolhapur
4. Superintendent of Police Kolhapur
5. Regional Office, M. P. C. Board, Kolhapur
6. Deputy Collector (Revenue), Divisional Commissioner Office, Pune
7. Chief Officer, Ichalkaranji Municipal Council

वाचले :-१) जनहित याचिका क्र.१८३/२०१२ मध्ये मा.उच्च न्यायालयाने दिनांक १० नोव्हेंबर २०१४ रोजी दिलेला निर्णय.
२) या कार्यालयाकडील आदेश क्र.मह-२/जमीन-को/सीआर/०८/२०१४ दि.२६/११/२०१४ व दि.०२/१२/२०१४

क्र.मह-२/जमीन-को/सीआर/०८/२०१४
आयुक्त पुणे विभाग पुणे यांचे कार्यालय
विधान भवन, पुणे- ४११ ००१
दिनांक. ०१/१२/२०१४

आदेश :

कोल्हापूर जिल्ह्यातील पंचगंगा नदीच्या प्रदुषणाबाबत करावयाच्या उपाययोजनांबाबत देखरेख व समन्वयासाठी मा.उच्च न्यायालयात दाखल झालेल्या जनहित याचिका क्र.१८३/२०१२ मध्ये मा.उच्च न्यायालयाने दिलेल्या निर्देशाप्रमाणे विभागीय आयुक्त पुणे यांच्या अध्यक्षतेखाली या कार्यालयाकडील आदेश क्र. क्र.मह-२/जमीन-को/सीआर/०८/२०१४ दि.२६/११/२०१४ अन्वये समिती गठीत करण्यात आली आहे.

मा.उच्च न्यायालयाकडील निर्देशानुसार, याचिकाकर्ते आणि प्रतिवादी क्र. ४ कोल्हापूर महानगरपालिका व प्रतिवादी क्र. ५ इचलकरंजी नगरपरिषद यांचेशी चर्चा करून वरील विषयाशी संबंधित एका तज्ञ व्यक्तींची वरील समितीमध्ये सदस्य म्हणून नियुक्ती करावयाची आहे. त्याअनुषंगाने दि.३/१२/२०१४ रोजी कोल्हापूर येथे संबंधित याचिकाकर्ते आणि आयुक्त, कोल्हापूर महानगरपालिका व मुख्याधिकारी, इचलकरंजी नगर परिषद यांचेशी समक्ष चर्चा करण्यात आली. चर्चेअंती दोन याचिकाकर्ते व प्रतिवादी क्र. ४ व ५ यांनी श्री. उदयसिंह गायकवाड यांच्या नावास सहमती दर्शविल्याने व त्यांचे पर्यावरण क्षेत्रातील काम पाहता सदर समितीमध्ये सदस्य म्हणून श्री.उदयसिंह धैर्यशील गायकवाड, २६१ ई-१८, शिल्पा अपार्टमेंट, ताराबाई पार्क, कोल्हापूर-४१६ ००३ यांची नियुक्ती करण्यात येत आहे.

(विकास देशमुख)
विभागीय आयुक्त पुणे, विभाग
पुणे.

प्रति,

श्री. उदयसिंह धैर्यशील गायकवाड,
२६१ ई-१८, शिल्पा अपार्टमेंट, ताराबाई पार्क, कोल्हापूर-४१६ ००३

प्रत :- १) आयुक्त कोल्हापूर महानगरपालिका
२) जिल्हाधिकारी कोल्हापूर
३) मुख्य कार्यकारी अधिकारी, जिल्हा परिषद कोल्हापूर
४) पोलिस अधीक्षक, कोल्हापूर
५) प्रादेशिक अधिकारी, महाराष्ट्र प्रदुषण नियंत्रण मंडळ, कोल्हापूर
६) प्रमुख वैज्ञानिक व मुख्य राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान, मुंबई झोनल सेंटर, ८१/बी, ॲनी बेझंट रोड, वरळी, वरळीगाव पोलीस ठाणे जवळ, मुंबई-४०० ०१८.
७) उपजिल्हाधिकारी (महसूल), विभागीय आयुक्त कार्यालय पुणे
८) मुख्याधिकारी, इचलकरंजी नगरपरिषद

D/Kolhapur panchganga river polution