

R715- 379/0-105/2024

R715- 27/06/2024

To,

The Registrar,
National Green Tribunal
Principal Bench, New Delhi.

Subject- Detail factual report in compliance of order dated 04.10.2023 in O.A. No. 586/2023
"Narendra Sirohi V/s State of U.P. & Ors.

Respected Sir,

In the above noted case, Hon'ble Tribunal has given direction as below :-

“In view of allegations in the application, we are of the view that the facts need to be verified and remedial action taken by joint Committee of CPCB, UPPCB and the District Magistrate, Mathura. The District Magistrate, Mathura is the coordinating officer. "The Committee will ensure collection of water sample of discharge from the factories in the concerned area and get the report of the sample and submit it before the Tribunal. The Committee will also ascertain the truthfulness of the incident reported in the newspaper and the allegation of release of untreated chemicals from the factories. The Committee will also ensure the adequate prevention/remedial measures, if the violations of environmental laws is found. Let the report be submitted by the Committee in this regard before the Registrar General of the Tribunal within three 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. If found necessary, matter will be listed for consideration before the Court.”

In the compliance of above directions, a committee having representative from CPCB, UPPCB and District Magistrate (DM), Mathura was constituted. The joint committee comprising of officials from CPCB, UPPCB and District Magistrate, Mathura carried out inspection of 13 units mentioned in original application and site survey including monitoring of Kosi Drain during 23-24 January, 2024.

Accordingly a factual and Joint Committee report is being submitted for kind perusal and further action in this regard.

Your faithfully,



Regional Officer

Enclosure-As Above.

C.C. :-

1. District Magistrate, Mathura.
2. Member Secretary, UP Pollution Control Board, Lucknow.
3. Chief Environmental Officer (CEO-4), UP Pollution Control Board, Lucknow.
4. Chief Law Officer, UP Pollution Control Board, Lucknow.



Regional Officer

**JOINT INSPECTION REPORT
OF
KOSI KOTWAN INDUSTRIAL AREA
IN COMPLIANCE TO
HON'BLE NGT ORDER DATED 04.10.2023**

**IN THE MATTER OF
NARENDER SIROHI**

Vs

**STATE OF UTTAR PRADESH & ORS.
[OA No. 586/2023]**

DATE OF INSPECTION: 23rd & 24th January, 2024

INDEX

Contents	Page No.
1. Subject Matter.....	4
2. Order of Hon'ble NGT dated 04.10.2023.....	4
3. Background.....	4
4. Joint survey and monitoring during 23-24.01.2024.....	5
4.1 Compliance verification of Industries on 23-24.01.2024 by joint team of officials from CPCB, UPPCB and District Administration, Mathura.....	5
4.1.1 M/s Svarn Tex Prints Pvt. Ltd., Plot No. D-25 & 26, Kosi Kotwan Industrial Area, Kosi Kalan, Mathura-281403, Uttar Pradesh.....	8
4.1.2 M/s Jainco India, Plot No. D-22, Industrial Area, Kosi Kotwan, Kosi Kalan, Mathura-281 403 Uttar Pradesh.....	9
4.1.3 M/s Bodal chemical Pvt Ltd (Old name: M/s SPS Processors), Plot No. A-2, UPSIDC Industrial Area, Village Kosi Kotwan, Mathura, 281 403 Uttar Pradesh.....	10
4.1.4 M/s Denim Touch, Plot No. E-117, Kosi Kotwan, Extension-1, Kosi Kalan, Mathura-281 403 Uttar Pradesh.....	12
4.1.5 M/s Balaji Colour Care, Plot No. E-118, Kosi Kotwan Extension-1, Kosi Kalan, Mathura, Uttar Pradesh.....	13
4.1.6 M/s Vaishnavi Tex Print, Plot No. E-124, Kosi Kotwan Industrial Area, Extension-1, Kosi Kalan, Distt-Mathura, Uttar Pradesh.....	15
4.1.7 M/s Shallendra Dyeing, Plot No. F-75, UPSIDC Industrial Area Kosi Kotwan, Extension-, Mathura, Mathura-281401 Uttar Pradesh.....	16
4.1.8 T D Process, Plot No. F-55, Industrial Area, Kosi Kotwan, Extension-1, Mathura-281 403, Uttar Pradesh.....	18
4.1.9 M/s R. K. Process, F-88, Industrial Area, Kosi Kotwan Ext-1, Distt.-Mathura-281403 Uttar Pradesh.....	18
4.1.10 Shree Balaji Processor, Plot No. F-91, UPSIDC Industrial Area Kosi Kotwan, Extension-1, Mathura-281 401 Uttar Pradesh.....	19
4.1.11 M/s Arya Industries, F-52, Kosi Kotwan, Extension 1, Kosi Kotwan Industroal are, Kosi Kalan, Mathura, Uttar Pradesh.....	20
4.1.12 M/s Redox Denim Hub, Plot No. F-100, UPSIDC, Kosi Kotwan Extension 1, Mathura, Uttar Pradesh.....	21
4.1.13 Shreeji Polyfab Pvt. Ltd., Plot No. H-60, Kosi Kotwan Extension-1, UPSIDA, Kosi Distt., Mathura, Uttar Pradesh.....	21

	4.2 Survey and Monitoring of Kosi drain at Kosi Kotwan Industrial Area	23
	4.2.1 Physico-chemical characteristics of Kosi drain at Kosi Kotwan Industrial Area	29
	4.3 Observation based on interaction and truthfulness of incident at Kosi Kotwan Industrial Area.....	30
5.	Conclusion based on the survey and monitoring of Kosi drain and Kosi Kotwan Industrial Area.....	30
6.	Photographs of Industries.....	31
7.	Inspection team details.....	34
Figures:		
Figure 1.	Sampling locations on Kosi drain	24
Figure 2.	Photos of Kosi drain at three locations	24
Tables:		
Table 1.	List of industries inspected during 23-24.01.2024.....	06
Table 2.	Sampling details of Kosi drain.....	26
Table 3.	Analysis results of sample collected from three locations of Kosi drain.....	28

DETAILED FACTUAL REPORT ON IMPACT OF DISCHARGE OF UNTREATED INDUSTRIAL EFFLUENT IN KOSI DRAIN AT KOSI KOTWAN INDUSTRIAL AREA, WHICH LATER JOINS RIVER YAMUNA IN UTTAR PRADESH AS PER HON'BLE NGT ORDER DATED 04.10.2023 IN OA NO 586 OF 2023 NARENDER SIROHI VS STATE OF UTTAR PRADESH & ORS. CARRIED OUT BY JOINT COMMITTEE OF CPCB, UPPCB, & DISTRICT ADMINISTRATION OF DISTT. MATHURA ON 23rd & 24th JAN, 2024

1. Subject Matter:

Matter OA No. 586/2023, Narender Sirohi Vs State of Uttar Pradesh & Ors.

Subject: Detailed factual report on impact of discharge of untreated poisonous chemicals from the factory in the Kosi drain from which the water was consumed by the buffaloes and dated 04.06.2022 was published in Amar Ujala, Mathura, Uttar Pradesh disclosing 12 buffaloes had died after drinking the poisonous water coming out from the factories of Kotwan Nabipur Industrial Area.

2. Order of Hon'ble NGT dated 04.10.2023

The Hon'ble NGT in the said matter passed the following directions vide its order dated 04.10.2023 (**Annexure-I**):

"In view of allegations in the application, we are of the view that the facts need to be verified and remedial action taken by joint Committee of CPCB, UPPCB and the District Magistrate, Mathura. The District Magistrate, Mathura is the coordinating officer. "The Committee will ensure collection of water sample of discharge from the factories in the concerned area and get the report of the sample and submit it before the Tribunal. The Committee will also ascertain the truthfulness of the incident reported in the newspaper and the allegation of release of untreated chemicals from the factories. The Committee will also ensure the adequate prevention/remedial measures, if the violations of environmental laws is found. Let the report be submitted by the Committee in this regard before the Registrar General of the Tribunal within three 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. If found necessary, matter will be listed for consideration before the Court."

3. Background:

In compliance of Hon'ble NGT order dated 04.10.2023, a committee having representative from Central Pollution Control Board (CPCB), Uttar Pollution Control Board (UPPCB) and the District Magistrate (DM), Mathura was constituted.

The District Magistrate, Mathura was appointed as a coordinating officer in the matter. The UPPCB officials highlighted the fact before the committee that all the industries mentioned in the original application dated September, 2023 are located in Kosi Kotwan, Kosi Kalan Industrial Area, Mathura, Uttar Pradesh and the residential village of the applicant i.e Kureshipur, is located in NIT Faridabad, Faridabad District of Haryana.

Thereafter, a letter dated 14.11.2023 was issued to Uttar Pollution Control Board (UPPCB) and District Magistrate (DM), Mathura to depute their representatives for constitution of Joint Committee in compliance to Hon'ble NGT order dated 04.10.2023. Copy of letter is attached as Annexure-II.

The joint committee comprising of officials from CPCB, UPPCB and the District Magistrate (DM), Mathura carried out inspection of 13 units mentioned in original application and site survey including monitoring of Kosi drain during 23rd-24th January, 2024 in order to ascertain the quality of wastewater discharged into Kosi drain from the factories of Kotwan Nabipur Industrial Area till the confluence of Kosi drain with River Yamuna. Wastewater samples from industries, drains and groundwater samples were collected by joint team and the samples were analysed at Central Laboratory, UPPCB, Lucknow.

4. Joint survey and monitoring during 23-24.01.2024

The joint committee comprising of officials from CPCB, UPPCB and the District Administration, Mathura carried out inspection of 13 units mentioned in original application and site survey including monitoring of Kosi drain during 23rd-24th January, 2024. The team surveyed Kosi Kotwan Industrial area to verify the type and number of industries, the effluent treatment facilities available at industries, the quality of effluent discharged by the units, the water quality of Kosi drain, and the villages located in its catchment.

Joint team carried out monitoring of Kosi drain and identified three locations at upstream and downstream of Kosi Kotwan Industrial Area. Sampling and analysis of drain was carried out at identified locations to assess the impact of effluents discharging from industries located in its vicinity.

Joint team carried out inspection of 13 industries as per the list provided by the applicant, to verify the compliance of industries w.r.t. status of consent to Operate/Consolidated Consent & Authorization (CCA), No Objection Certificates (NOC) for groundwater withdrawal, status of Effluent treatment plant (ETP), compliance of ETP inlet and outlet w.r.t. Consent or notified discharge standards.

During inspection, joint team also verified the truthfulness of the incident mentioned in the order. The team interacted with the villagers belonging to the local villages of Kosi Kotwan Industrial area.

4.1 Compliance verification of Industries on 23-24.01.2024 by joint team of officials from CPCB, UPPCB and District Administration, Mathura

In compliance to the aforesaid direction, a joint team of officials from Central Pollution Control Board (CPCB), Delhi, Uttar Pollution Control Board (UPPCB) and the representative of district Magistrate, Mathura visited the following industries on 23.01.2024 - 24.01.2024. As informed by Regional Officer, Mathura about 75 numbers of industries are located in Kosi Kotwan Industrial Area. Applicant mentioned and provided list of 13 industries to be responsible for

causing pollution in Kosi drain of Kosi Kotwan Industrial area.

Joint team carried out detailed inspection of all 13 units from 23.01.2024 to 24.01.2024 *w.r.t.* freshwater consumption, wastewater management, solid waste management, characteristics of groundwater quality as well as availability of valid Consents to Operate/Consolidated Consent & Authorization (CCA) under Water & Air Act and No Objection Certificates (NOC) for ground water withdrawal.

Also, the joint team verified the status of ETP installed at industries, compliance of ETP inlet and outlet *w.r.t.* Consent or notified discharge standards, flowmeters installed at various locations and collected relevant documents. Copies of logbook for production, effluent management, chemical consumption/dosing, sludge generation and management, freshwater consumption etc. from all the units were also collected.

Out of 13 industries, majorly industries are of textile sector (09 nos.) along with other sectors such as Tyre Pyrolysis (01 no.) and dye manufacturing unit (01 no.). During the inspection, 11 industries were found operational and one industry (M/s Arya industries, F-52) was found completely locked and non-operational from outside and and at the address of M/s Redox Denim, Plot no. F-100, only vacant plot is there.

It was observed, out of 13 units, 10 units were found operational, 2 units were found non-operational, while at the address of one unit, plot was present but industry was not existing. Samples from ETP inlet, ETP outlet and groundwater from Zero Liquid Discharge (ZLD) units were collected and analyzed at Central Laboratory, UPPCB, Lucknow. All 10 operational units were found complying *w.r.t.* notified discharge standards. However, many units were unable to provide necessary documents like CTO, NOC for Groundwater abstraction, Hazardous waste Authorization, Wastewater generation and treatment records.

Table 1: List of industries inspected during 23.01.2024 - 24.01.2024

The detailed report of the inspected units is attached as subsequent Annexures as tabulated below.

S. No.	Name of Industry	Sector	Date of Inspection	Annexure No.
1.	M/s Svarn Tex Prints Pvt. Ltd., Plot No. D-25 & 26, Kosi Kotwan Industrial Area, Kosi Kalan, Mathura-281403, Uttar Pradesh	Textile	23.01.2024	Annexure - III
2.	M/s Jainco India, Plot No. D-22, Industrial Area, Kosi	Tyre Pyrolysis	23.01.2024	Annexure - IV

	Kotwan, Kosi Kalan, Mathura-281 403 Uttar Pradesh			
3.	M/s Bodal chemical Pvt Ltd (Old name: M/s SPS Processors), Plot No. A-2, UPSIDC Industrial Area, Village Kosi Kotwan, Mathura, 281 403 Uttar Pradesh	Dye manufacturing	23.01.2024	Annexure - V
4.	M/s Denim Touch, Plot No. E-117, Kosi Kotwan, Extension-1, Kosi Kalan, Mathura-281 403 Uttar Pradesh	Textile	23.01.2024	Annexure - VI
5.	M/s Balaji Colour Care, Plot No. E-118, Kosi Kotwan Extension-1, Kosi Kalan, Mathura, Uttar Pradesh	Textile	23.01.2024	Annexure - VII
6.	M/s Vaishnavi Tex Print, Plot No. E-124, Kosi Kotwan Industrial Area, Extension-1, Kosi Kalan, Distt-Mathura, Uttar Pradesh	Textile	24.01.2024	Annexure - VIII
7.	M/s Shailendra Dyeing, Plot No. F-75, UPSIDC Industrial Area Kosi Kotwan, Extension-, Mathura, Mathura-281401 Uttar Pradesh	Textile	24.01.2024	Annexure - IX
8.	T D Process, Plot No. F-55, Industrial Area, Kosi Kotwan, Extension-1, Mathura-281 403, Uttar Pradesh	Textile	24.01.2024	Annexure - X
9.	M/s R. K. Process, F-88, Industrial Area, Kosi Kotwan Ext-1, Distt.-Mathura-281403 Uttar Pradesh	Textile	24.01.2024	Annexure - XI
10.	Shree Balaji Processor, Plot No. F-91, UPSIDC Industrial Area Kosi Kotwan, Extension-1, Mathura-281 401 Uttar Pradesh	Textile	24.01.2024	Annexure - XII
11.	M/s Arya Industries, F-52, Kosi Kotwan, Extension 1, Kosi Kotwan Industroal are, Kosi Kalan, Mathura, Uttar Pradesh	Non-operational (Locked from outside)	24.01.2024	Annexure - XIII

12.	M/s Redox Denim Hub, Plot No. F-100, UPSIDC, Kosi Kotwan Extension 1, Mathura, Uttar Pradesh	Only plot was there	24.01.2024	Annexure - XIV
13.	Shreeji Polyfab Pvt. Ltd., Plot No. H-60, Kosi Kotwan Extension-1, UPSIDA, Kosi Distt., Mathura, Uttar Pradesh	Textile	24.01.2024	Annexure - XV

The major observations and recommendations made by the Joint Committee w.r.t. inspected units are summarized as follows:

4.1.1 M/s Svarn Tex Prints Pvt. Ltd., Plot No. D-25 & 26, Kosi Kotwan Industrial Area, Kosi Kalan, Mathura-281403, Uttar Pradesh

- Unit was found operational on the day of inspection i.e. 23.01.2024. Unit is engaged in Dyeing & Printing of Fabrics with consented capacity of 60,000 Mtr/day. The actual production of unit was 6-7 TPD as per unit representative, however, logbook for daily production details was not provided.
- Steps of Wet processing involves: Grey Cloth → Sing & Desizing → Bleaching → Drying → Mercerizing → Dyeing → Drying → Printing → Curing & Ageing → Washing → Finish.
- Unit has obtained Consent to operate (CTO) under Water Act, 1974 and Air Act, 1981 from Uttar Pradesh Pollution Control Board (UPPCB) with validity upto 31.12.2025 and Authorization for Hazardous waste Management, Rules 2016 from UPPCB with validity upto 26.02.2024.
- Unit has not obtained No Objection Certificate (NOC) from Uttar Pradesh Ground Water Department (UPGWD) for groundwater abstraction from Borewell.
- Unit has installed 02 numbers of borewells with mechanical flow meters at both of them. However, flow meter of borewell-2 was found non-functional at the time of inspection. Groundwater abstraction by unit was 574.8 KLD, as per logbook of Borewell-1.
- Unit also receive freshwater from tankers, however, no logbook or receipt is provided for the same.
- Unit has installed an Effluent Treatment Plant (ETP) of 500 KLD for treatment of effluent generated in textile processes and it was found operational. ETP treatment Scheme is as follows: Inlet → Screen → Equalization Tank → Chemical dosing & Mixer tanks → Biological tank-1&2 → Secondary Clarifier-1 & 2 → Clear water tanks → Sand Filter → ACF → Outlet.
- Unit has installed flow meter at inlet and outlet of the ETP. However, inlet flowmeter was found non-functional at the time of inspection. As per the unit representative, flow meter is not working since two months. But, logbook for ETP inlet was maintained, according to which wastewater generated by unit was 387.88 KLD.
- As per the logbook for ETP Outlet, the quantity of treated effluent is being discharged @ 374.6 KLD against the consented quantity of 500 KLD.

- Analysis results of sample collected from ETP Inlet show pH – 9.62, BOD – 182 mg/l, COD – 1268 mg/l, TSS – 208 mg/l and TDS – 3894 mg/l.
- Analysis results of sample collected from ETP Outlet show pH – 8.33 (against the consented norm of 6.5 – 9.0); BOD – 28.1 mg/l (against the consented norm of 30 mg/l); COD – 224 mg/l (against the consented norm of 250 mg/l); TSS – 94 mg/l (against the consented norm of 100 mg/l); TDS – 2027 mg/l (against the consented norm of 2100 mg/l), Sulphide – 0.81 mg/l (against the consented norm of 2.0 mg/l) and Ammonical Nitrogen 1.15 mg/l (against the consented norm of 50 mg/l). Results indicate compliance of ETP Outlet w.r.t. stipulated discharge norms.
- Treated effluent is being discharged into Kosi drain via industrial drain which ultimately confluence with River Yamuna.
- Unit has agreement of hazardous waste disposal with Bharat Oil & Waste Management Ltd. (TSDF) with validity upto May 09, 2024. As per form 10 Provided by unit, 2250 kg and 2800 kg sludge has been handed over to TSDF on June 2023 and October 05, 2023, respectively.
- Unit has installed the Online Continuous Effluent Monitoring System (OCEMS) at the outlet of ETP.

Recommendations for unit, on the basis of inspection:

- Unit shall obtain NOC from UPGWD for groundwater abstraction for both the borewell.
- Unit shall maintain/repair flow meter of borewell-2 (near main gate).
- Unit shall maintain/repair flowmeter at ETP inlet.
- Unit shall maintain logbooks for daily freshwater consume by tankers, daily chemicals consumption in ETP, monthly sludge generation and daily production details.

4.1.2 M/s Jainco India, Plot No. D-22, Industrial Area, Kosi Kotwan, Kosi Kalan, Mathura-281403, Uttar Pradesh

- Unit was found operational on the day of inspection i.e. 23.01.2024. Unit is engaged in tyre pyrolysis with consented capacity of Wire Scrape-36 MT/Month, Carbon Black- 75 MT/Month and RPO Waste Oil-77 MT/Month.
- Unit process scheme: Waste tyre (Nylon/Radial tyre)→Pyrolysis Plant→Pyrolysis oil→Delivery to Refinery Unit; Carbon Black→ Pulverizer Unit→ Collected & sell; Steel wire→compressed→sell; Hydrocarbon gas→ Recycle burning units→ Scrubber→Chimney.
- As informed by unit representative, actual production of Oil is 2.6 MT/day, Carbon-3 MT/day and Wire(steel)-1.1 MT/day, however, no logbook is maintained for the same.
- Unit has obtained Consolidated Consent to Operate and Authorization (CCA) under Water Act, 1974, Air Act, 1981 and Authorization for Hazardous waste Management, Rules 2016 from UPPCB with validity upto 31.07.2027.
- Unit has one borewell in its premises without flowmeter. Unit has not obtained NOC from UPGWD for groundwater abstraction.

- Unit has installed an Effluent Treatment Plant (ETP) of 5 KLD capacity with treatment scheme as Inlet→Equalization Tank (03 Nos.)→ Chemical dosing tanks & Mixer tank→ Tube settler→ Dual Media Filter & ACF→ Outlet.
- ETP was found operational during the visit. Unit has not installed flow meter at ETP inlet and outlet. No chemical dosing was observed in ETP unit at the time of inspection.
- Analysis results of sample collected from ETP Inlet show pH – 6.86, BOD – 98mg/l and COD – 377 mg/l.
- Analysis results of sample collected from ETP Outlet show pH – 7.42 (against the consented norm of 6.5 – 8.5); BOD – 24 mg/l (against the consented norm of 30 mg/l) and COD – 218 mg/l. Results indicate compliance of ETP outlet w.r.t. stipulated discharge norms.
- Unit has not installed web camera at the outlet of ETP.
- Unit has not provided logbooks for ETP inlet, outlet, electricity consumption, daily analysis of ETP inlet-outlet parameters and chemicals consumed in ETP. Also, logbook was not maintained for raw materials consumption (Tyre) for pyrolysis and daily production.
- Treated effluent is being discharged through open lined channel into Kosi drain via industrial drain which ultimately confluence with River Yamuna.
- Unit has agreement of hazardous waste disposal with TSDF (Bharat Oil & Waste Management Ltd.) with validity upto March 09, 2024. As per form 10, about 85 kg sludge has been handed over to TSDF on October 16, 2023.

Recommendations for unit, on the basis of inspection:

- Unit shall obtain NOC from UPGWD for groundwater abstraction.
- Unit shall install flow meter at ETP inlet, outlet and borewell. Maintain logbook for the same.
- Unit shall install web camera at ETP outlet.
- Unit shall maintain logbooks for ETP inlet, outlet, electricity consumption, sludge generation and chemicals consumed in ETP.
- Unit shall maintain raw materials (Tyre) and productions log book.

4.1.3 M/s Bodal chemical Pvt Ltd (Old name: M/s SPS Processors) Plot No. A-2, UPSIDC Industrial Area, Village-Kosi Kotwan, Mathura, 281403

- Unit was found operational on the day of inspection i.e. 23.01.2024. Unit is engaged in manufacturing of dyes with consented capacity of H-acid- 400 MT/month, Reactive Black-150 MT/month, Reactive Navy Blue-50 MT/month & Vinyl Sulphone-150 MT/Month.
- Unit has obtained CTO under Water Act, 1974 and Air Act, 1981 and Authorization for Hazardous Waste Management, Rules 2016 from UPPCB with validity upto 31.12. 2025. The unit has consent for operating at Zero liquid discharge (ZLD).

- Unit has obtained NOC from UPGWD for groundwater abstraction from 02 Borewells with validity up to 23.07.2027. As per NOC, the unit can abstract a maximum of 148 KLD of groundwater from both borewell.
- Unit has installed 02 no's of borewell in its premises with electromagnetic flowmeters at both of them. As per logbook of Borewell-1 and Borewell-2, groundwater abstraction by unit was 47.32 KLD.
- As per unit representative, unit is operating at its full capacity. However, logbook for daily production was not maintained.
- Unit has installed ETP of 50 KLD capacity for treatment of effluent generated in unit and it was found operational. ETP treatment scheme is as follows: Collection Tank → Crystallizer → Neutralization → Filtration → Force Base Circulation Multiple Effect Evaporation System (MEE) → Agitated thin Film dryer/Spray Dryer/Incinerator.
- Unit has installed RO system for treatment of fresh water collected from borewell.
- Unit has installed electromagnetic flowmeters at inlet and outlet of the ETP. As per the logbook for ETP inlet, the quantity of wastewater generated by unit was 29.155 KLD.
- As per the logbook for ETP Outlet, the quantity of treated effluent is being discharged @ 28.64 KLD.
- Analysis results of sample collected from ETP Inlet show pH – 7.53; BOD – 284 mg/l; COD – 2121 mg/l; TSS – 568 mg/l; chloride-1070 mg/l and Sulphate-1158 mg/l.
- Analysis results of sample collected from ETP Outlet show pH – 8.04 (against the consented norm of 6.5 – 8.5); BOD – 27 mg/l (against the consented norms of 30 mg/l); COD – 224 mg/l (against the consented norms of 250 mg/l); TSS – 89 mg/l (against the consented norm of 100 mg/l); Sulphate – 38.8 mg/l (against the consented norm of 1000 mg/l), Ammonical Nitrogen 2.21 mg/l (against the consented norm of 50 mg/l) and Chloride as 168 mg/L (against the consented norm of 1000 mg/l). Results indicate compliance of ETP Outlet with the stipulated discharge norms.
- Analysis result of groundwater collected from unit premises show: pH-7.56, Colour-5 Hz, TSS-15mg/l, Cl-12mg/l, Ammonical Nitrogen-ND, T.Cr.-ND, Copper-0.012mg/l, Cadmium-ND, Lead-ND, Nickel-0.03mg/l. Result indicate, non-compliance of groundwater w.r.t. acceptable limit as sulphate -338 mg/l (against acceptable limit as 200mg/l), and Manganese -0.23 mg/l (against the acceptable limit as 0.1 mg/l).
- Treated effluent is being discharged into Kosi drain via industrial drain which ultimately confluence with River Yamuna.

- Unit has not installed web camera at ETP Outlet.
- Unit has agreement of hazardous waste disposal with TSDF (Bharat Oil & Waste Management Ltd.) with validity upto August 20, 2024. As per form 10, 28030 kg and 28075 kg sludge has been handed over to TSDF on October 13, 2023 and December 18, 2023, respectively.

Recommendations for unit, on the basis of inspection:

- Unit shall install web camera at the outlet of ETP.
- Unit shall install flowmeter at storage and recycle line for process.
- Unit shall provide logbook for daily production.

4.1.4 M/s Denim Touch, Plot No. E-117, Kosi Kotwan, Extension-1, Kosi Kalan, Mathura-281 403, Uttar Pradesh

- Unit was found operational on the day of inspection i.e. 23.01.2024. Unit is engaged in Dyeing & washing of fabric (Denim) with consented capacity of 150000 numbers per day.
- Unit has obtained CTO under Water Act, 1974 and Air Act, 1981 from UPPCB with validity upto 31.12.2025 with validity upto 31.12.2027.
- Unit has not obtained Authorization for Hazardous Waste Management, Rules, 2016 from UPPCB and unit also has not obtained agreement with TSDF for Hazardous waste safe disposal.
- Unit has installed two borewells in its premises without flowmeters. Also, unit has not obtained NOC for groundwater abstraction from borewells from UPGWD.
- Unit has installed Effluent Treatment Plant (ETP) of 50 KLD capacity with treatment scheme as: Inlet→Equalization Tank (02 Nos.)→ Flash Mixer→ Tube settler→ Storage tank→Dual Media Filter& Activated Carbon Filter. Inadequate ETP without biological treatment system after primary treatment.
- Treated effluent is being discharged into Kosi drain via industrial drain which ultimately confluence with River Yamuna.
- Flowmeters were not installed at ETP inlet and outlet.
- Unit has not installed the Online Continuous Effluent Monitoring System (OCEMS) at the outlet of ETP.
- Unit has not maintained logbooks for ETP inlet, outlet, electricity consumption and chemicals consumed in ETP.
- Analysis results of sample collected from ETP Inlet show pH – 7.23, BOD – 89 mg/l and COD – 268 mg/l, TSS-208 mg/L and TDS as 1275 mg/L.

- Analysis results of sample collected from ETP Outlet show pH – 8.1 (against the norm of 6.5 – 8.5); BOD – 12 mg/l (against the norms of 30 mg/l); COD – 55.2 mg/l (against the norms of 250 mg/l); TSS – 22 mg/l (against the consented norm of 100 mg/l); TDS – 941 mg/l (against the consented norm of 2100 mg/l); Sulphide – 1.2 mg/l (against norm of 2mg/l) and Ammonical Nitrogen 0.49 mg/l (against the consented norm of 50 mg/l). These results indicate compliance with the stipulated discharge norms.
- The ETP inlet doesn't indicate the typical characteristics of effluent from dyeing industry and reduction in BOD without any biological unit is not technically feasible therefore, possibility of dilution can't be ruled out.

Recommendations for unit, on the basis of inspection:

- As per textile charter Bare Minimum Technology (BMT), unit shall install biological treatment after primary treatment.
- Unit shall obtain authorization under the provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and NOC from UPGWD for groundwater abstraction and make all the documents available at the ETP.
- Unit shall install flow meter at ETP inlet, ETP outlet and both the borewells.
- Unit shall install OCEMS at ETP outlet.
- Unit shall maintain logbooks for ETP inlet, ETP outlet, electricity consumption and chemicals consumed in ETP.
- Unit shall maintain logbook for sludge generation and proper disposal. Hazardous waste to be provided to authorized TSDF recycler.

4.1.5 M/s Balaji Colour Care, Plot No. E-118, Kosi Kotwan Extension-1, Kosi Kalan, Mathura, Uttar Pradesh

- Unit was found operational on the day of inspection i.e. 23.01.2024. Unit is engaged in dyeing and washing of denim.
- Unit has not obtained CTO under Water Act, 1974; Air Act, 1981 and Authorization for Hazardous Waste Management, Rules 2016 from UPPCB.
- Unit has not obtained NOC from UPGWD for groundwater abstraction from Borewell.
- Unit has installed ETP of 6 KLD with following treatment scheme: Inlet → Equalization Tank → Flash Mixer → Tube settler → Storage tank → Multi-Grade Filter & Activated Carbon Filter. Inadequate ETP without biological treatment system.
- Unit has not installed flowmeters at ETP Inlet and ETP Outlet.

- Analysis results of sample collected from ETP Inlet show pH – 7.23; BOD – 89 mg/l; COD – 268 mg/l; TSS – 208 mg/l and TDS-1275 mg/l.
- Analysis results of sample collected from ETP Outlet show pH – 8.1 (against the consented norm of 6.5 – 8.5); BOD – 12 mg/l (against the consented norms of 30 mg/l); COD – 55.2 mg/l (against the consented norms of 250 mg/l); TSS – 22 mg/l (against the consented norm of 100 mg/l); TDS- 941 mg/l (against the consented norm of 2100 mg/l); Sulphide-1.2 mg/l (against the consented norm of 2.0 mg/l) and Ammonical Nitrogen 0.490 mg/l (against the consented norm of 50 mg/l). Results indicate compliance of ETP Outlet with the stipulated discharge norms.
- The ETP inlet doesn't indicate the typical characteristics of effluent from dyeing industry and reduction in BOD without any biological unit is not technically feasible therefore, possibility of dilution can't be ruled out.
- Treated effluent is discharged through lined channel to industrial drain to Kosi drain which ultimately confluence with River Yamuna.
- Unit is not having agreement for hazardous waste disposal and management with TSDF.
- Unit has not installed web camera at ETP Outlet.
- Unit has not maintained manufacturing process flow chart, logbook for daily production, fresh water consumption, ETP process flowchart, waste water generation, waste water discharge, chemical consumption, electricity usage.

Recommendations for unit, on the basis of inspection:

- Unit shall obtain CTO under Water Act, 1974; Air Act, 1981 and Authorization for Hazardous Waste Management, Rules 2016 from UPPCB.
- Unit shall obtain NOC from UPGWD for groundwater abstraction from Borewell.
- Unit shall install flowmeters at ETP Inlet, ETP Outlet and borewell.
- Unit shall install web camera at ETP Outlet.
- As per textile charter (BMT), unit shall install biological treatment after primary treatment.
- Unit shall maintain supporting documents i.e Manufacturing process flow chart, logbook of total production, fresh water consumption, ETP process flowchart, waste water generation, waste water discharge, chemical consumption & electricity consumption.

4.1.6 M/s Vaishnavi Tex Print, Plot No. E-124, Kosi Kotwan Industrial Area, Extension-1, Kosi Kalan, Distt-Mathura, Uttar Pradesh

- Unit was found operational on the day of the visit i.e. 24.01.2024. Unit is engaged in Dyeing & Bleaching of Cotton Fabrics with consented capacity of 2.5 Metric Tonnes/day, Dyeing & Bleaching of Polyester Fabrics-2.5 Metric Tonnes/day & Printing of Fabrics (Knits & Woven)-2.0 Metric Tonnes/day.
- Manufacturing process of unit is as follows: Fabric→Singeing& Desizing → Scouring & Bleaching → Mercerizing → Dyeing → Printing → Finishing.
- The ETP receives effluents from dyeing, bleaching, printing and washing process.
- Unit has obtained CTO under Water Act, 1974 and Air Act, 1981 from UPPCB with validity upto 31.12.2027.
- Unit has applied for Authorisation for Hazardous Wastes Management, Rules, 2016 dated 14.06.2023 from UPPCB. Application copy provided.
- Unit has installed one borewell in its premises without flowmeter. Also, unit has not obtained NOC for groundwater abstraction from borewell from UPGWD.
- Unit representative informed that presently the unit is operating at capacity of 266 kg/day Dyeing, bleaching & printing of Cotton & Polyester fabrics.
- Unit has installed Effluent Treatment Plant (ETP) of capacity 225 KLD which was found operational on the day of visit, with treatment scheme as Screen Chamber→ Holding Tank→ Equalization Tank→ Chemical Reaction Tank→ Flocculation Chamber →Tube Settler→ SBR Tank→ MGF & ACF. Chemicals used in ETP are Polyelectrolyte, Ferrous Sulphate and Lime.
- Unit has not installed flowmeter at ETP inlet & outlet.
- Logbooks for ETP inlet, outlet, groundwater abstraction, daily process, sludge generation and management, energy usage and chemical consumption were not maintained.
- Analysis results of sample collected from ETP Inlet show pH – 11.45, BOD – 178 mg/l and COD – 627 mg/l, TSS-212 mg/l and TDS as 3736 mg/l.
- Analysis results of sample collected from ETP Outlet show pH – 8.24 (against the norm of 6.5 – 8.5); BOD – 14 mg/l (against the norms of 30 mg/l); COD – 74.4 mg/l (against the norms of 250 mg/l); TSS – 25 mg/l (against the norm of 100 mg/l); TDS – 637 mg/l (against the norm of 2100 mg/l); Sulphide – 0.8 mg/l (against norm of 2mg/l) and Ammonical Nitrogen 0.28 mg/l (against the consented norm of 50 mg/l). These results indicate compliance with the stipulated discharge norms.
- Unit has not installed OCEMS at ETP Outlet.
- Treated effluent is being discharged into Kosi drain via industrial drain which ultimately confluence with River Yamuna.

- Unit has agreement of hazardous waste disposal with Bharat Oil and waste management Ltd. with validity up to May 23, 2024. As per form 10 provided by unit, 497.7 Kg of sludge has been handed over to TSDF on 26.12.2023.

Recommendations for unit, on the basis of inspection:

- Unit shall obtain NOC from UPGWD for groundwater abstraction.
- Unit shall install flowmeters at ETP inlet, ETP outlet and borewell.
- Unit shall install OCEMS at ETP outlet.
- Unit shall maintain logbooks for ETP inlet, outlet, groundwater abstraction, daily process, sludge generation and chemical consumption in ETP.

4.1.7 M/s Shalendra Dyeing, Plot No. F-75, UPSIDC Industrial Area Kosi Kotwan, Extension-, Mathura, Mathura-281401 Uttar Pradesh

- Unit was found operational at the day of visit i.e 23.01.2024.
- Unit has obtained CTO under Water Act, 1974 and Air Act, 1981 from UPPCB with validity upto 31.12.2025 for carrying out Dyeing & Printing of fabrics-10,000 Mtr./day.
- As informed by representative, presently it is operating at full capacity (10,000 Mtr./day) for dyeing and washing. However, logbook for daily production is not maintained.
- As informed by representative, unit has applied for hazardous waste Authorization under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 from UPPCB, however, application copy was not provided.
- As informed by representative, unit has applied for NOC from UPGWD for groundwater abstraction. However, application copy was not provided.
- Unit has installed an ETP of capacity 150 KLD which was found operational on the day of visit, with treatment scheme as Equalization Tank→Flash Mixer → Tube settler→ Clarifier Tank→ Dual Media Filter→ Storage tank. Inadequate ETP without biological treatment system.
- Analysis results of sample collected from ETP inlet showed pH-10.07, BOD-119mg/l, COD-292mg/l, TSS-92mg/l, TDS-3006mg/l
- Analysis results of sample collected from ETP Outlet show pH – 8.13 (against the consented norm of 6.5 – 8.5); BOD – 15.8 mg/l (against the consented norms of 30 mg/l); COD – 68 mg/l (against the consented norms of 250 mg/l); TSS – 32 mg/l (against the consented norm of 100 mg/l); TDS – 1920 mg/l (against the consented

norm of 2100 mg/l); Sulphide – 0.3 mg/l (against the consented norm of 2mg/l) and Ammonical Nitrogen 0.44 mg/l (against the consented norm of 50 mg/l). Results indicate compliance of ETP Outlet with the stipulated discharge norms.

- Reduction of approx. 88% in BOD without any biological unit is not technically feasible therefore, possibility of dilution can't be ruled out.
- Flowmeter was found installed at ETP Inlet. As per logbook, wastewater generation is 39.6 KLD.
- Flowmeter was found installed at ETP outlet. As per logbook, treated wastewater discharge is 43 KLD.
- As per unit representative, the treated water is reused in process, chemical dosing of ETP and excess of it is discharged out. However, flowmeter was not found installed on recycling line.
- Treated effluent is discharged through lined channel to industrial drain to Kosi drain which finally confluence with River Yamuna.
- Unit has installed RO plant for treatment of fresh water collected from borewell. However, no record was maintained for RO reject.
- Logbooks were found maintained for ETP inlet, ETP outlet, electricity consumption, Daily analysis of ETP inlet-outlet parameters and Chemicals consumed in ETP. As per logbook provided, wastewater generation is less than wastewater discharge.
- Unit has generation agreement with TSDF for hazardous waste disposal. About 554.82 Kg sludge has been handed over on 22.08.2024 (Form-10 provided).
- Unit has not installed online continuous effluent monitoring system (OCEMS) at ETP Outlet.

Recommendations for unit, on the basis of inspection:

- Unit shall obtain NOC from UPGWD and authorization for hazardous waste handling from UPPCB.
- Unit shall maintain logbooks for sludge generation and disposal, groundwater consumption, daily production and recycled water.
- Flowmeter shall install at recycling line.
- As per textile charter (BMT), unit shall install biological treatment after primary treatment.

4.1.8 T D Process, Plot No. F-55, Industrial Area, Kosi Kotwan, Extension-1, Mathura-281 403, Uttar Pradesh

- Unit was found non-operational on the day of inspection i.e. 24.01.2024. As informed, unit is engaged in washing of clothes.
- During inspection, no one was present in unit premises except security guard. Process parts of Unit and ETP was found non-operational. However, the boiler was found burning, which indicates that unit seems operating.
- Later on, the team re-visited the unit again on the same day, then the owner of unit was present and he confirmed that Unit was non-operational as the boiler was under maintenance.
- Unit has not provided any information and document and has not maintained any logbook.
- Sampling was not performed during inspection as the ETP unit was found non-operational.
- It is observed that treatment scheme of ETP is: Inlet→Equalization Tank→ Chemical dosing tank→Mixer tank→ Settling tank→ MGF→ ACF.

Recommendations for unit, on the basis of inspection:

- Appropriate action as deemed fit under E(P) Act,1986.

4.1.9 M/s R. K. Process, F-88, Industrial Area, Kosi Kotwan Ext-1, Distt.-Mathura-281403 Uttar Pradesh

- Unit was found operational at the day of visit i.e. 24.01.2024. Unit found engaged in dyeing or washing of jeans and readymade garments with consented capacity of 1500 Nos./day.
- Unit has obtained CCA under Water Act, 1974 and Air Act, 1981 from UPPCB with validity upto 31.12.2024.
- Unit has not obtained Authorization for Hazardous Waste Management from UPPCB and it is also not having agreement for Hazardous waste safe disposal and management with TSDF/ authorized recycler.
- Unit has installed one borewell in its premises without flowmeter. Unit has not obtained NOC from UPGWD for groundwater abstraction.
- Unit has installed ETP of 50 KLD capacity which was found operational on the day of visit, with following treatment scheme as: ETP inlet→ screen→equalization tank→reaction tank→ tube settler→ treated water collection tank (buffer tank)→ multigrade filter→ activated carbon filter→ filtered water collection tank. Inadequate ETP without biological treatment system after primary treatment.
- As per CCA, Unit has to install RO plant for recycling purpose, however, RO plant was not found installed and treated effluent was being discharged directly into nearby drain.
- Flowmeter was not installed at ETP inlet and outlet.
- Analysis results of sample collected from ETP Inlet show pH – 7.5, BOD – 103 mg/l COD – 352 mg/l, TSS-192 mg/l and TDS as 2596 mg/l.
- Analysis results of sample collected from ETP Outlet show pH – 8.2 (against the norm of 6.5 – 8.5), BOD – 27.4 mg/l (against the norms of 30 mg/l); COD – 92 mg/l (against

the norms of 250 mg/l); TSS – 84 mg/l (against the norm of 100 mg/l); TDS – 1903 mg/l (against the norm of 2100 mg/l); Sulphide – ND (against norm of 2mg/l), Oil And Grease 5.2 mg/l (against the consented norm of 10 mg/l), Ammonical Nitrogen- 2.8 mg/l (against the consented norm of 50 mg/l) and T.Cr. as ND. These results indicate compliance with the stipulated discharge norms.

- Treated effluent is being discharged into Kosi drain via industrial drain which ultimately confluence with River Yamuna.
- Unit has not installed OCEMS at ETP Outlet.
- 400 kg/hr capacity Baby Boiler installed in premises with chimney height of 20ft. The fuel used are biomass and wood.
- Logbook is not maintained for ETP inlet, outlet, sludge generation and management, groundwater abstraction, daily production and Chemicals use in ETP.

Recommendations for unit, on the basis of inspection:

- Unit shall obtain valid authorization for hazardous waste disposal and NOC from UPGWD for groundwater abstraction.
- Unit shall sign an agreement with any TSDF /authorized recycler for safe collection and disposal of hazardous chemical sludge.
- Unit shall install flowmeters at ETP inlet, ETP outlet, borewell and maintain respective logbooks.
- As per CCA, Unit was given consent to treat 40 KLD of its domestic sewage through ETP and 2 KLD through septic tank.
- Also, as per consent conditions, Unit shall install RO Plant for recycle and reuse of treated wastewater received through ETP.

4.1.10 Shree Balaji Processor, Plot No. F-91, UPSIDC Industrial Area Kosi Kotwan, Extension-1, Mathura-281 401 Uttar Pradesh

- Unit was found temporary non- operational on the day of the visit i.e. 24th January, 2023. Undertaking is provided by the unit representative that unit is non-operational since last two days due to no work.
- As informed, Unit is engaged in Dyeing and washing of grey readymade garments/Jeans of about 500-600 pieces/day against consented capacity 7500 Pieces/day.
- Unit has obtained CTO under Water Act, 1974 and Air Act, 1981 from UPPCB with validity upto 24.09.2025.
- Unit has not obtained authorization under the provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules,2016.

- Unit has not obtained NOC from UPGWD for groundwater abstraction from Borewell. However, It has applied for NOC on 21.02.2020.
- Unit has installed one borewell in its premises without flowmeter.
- Unit has installed an ETP of 30 KLD for treatment of effluent generated in textile processes and it was found non-operational. ETP treatment Scheme is as follows: The treatment scheme as: ETP inlet → Bar screen → equalization tank → reaction tank → tube settler → activated carbon filter → sand filter. Inadequate ETP without biological treatment system.
- Flowmeter was installed at ETP outlet but was found non-functional while no flowmeter was available at ETP inlet.
- Unit has not installed separate energy meter for ETP unit.
- Treated effluent is discharged through lined channel to industrial drain to Kosi drain which finally confluence with River Yamuna.
- Unit is not having agreement for hazardous waste disposal and management with TSDF.
- Unit has not installed OCEMS at ETP Outlet.
- Logbook has been not maintained for ETP inlet, outlet, sludge generation and management, groundwater abstraction, daily production and Chemicals use in ETP.

Recommendations for unit, on the basis of inspection:

- Unit shall apply for hazardous waste Authorization under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- Unit shall install flowmeters at borewell and ETP inlet.
- Unit shall install OCEMS at ETP outlet.
- Unit shall obtain agreement with TSDF site for disposal of Hazardous waste.
- As per textile charter (BMT), unit shall install biological treatment after primary treatment.
- Unit shall maintain Manufacturing process flow chart for each product, ETP process flowchart, logbook for ETP inlet and outlet, Sludge generation & sludge disposal, groundwater abstraction, chemical consumption and electricity usage.

4.1.11 M/s Arya Industries, F-52, Kosi Kotwan, Extension 1, Kosi Kotwan Industrial are, Kosi Kalan, Mathura, Uttar Pradesh

- Unit was found locked from outside and non-operational on the day of visit i.e., 24.01.2024.

- No contact person was available at the unit and nearby. It seems long time non-operational from outside.

Recommendations for unit, on the basis of inspection:

- UPPCB may verify the actual operational status of unit through the status of consent to establish or consent to operate issued to the unit. Appropriate action as may deemed fit under E(P) Act, 1986.

4.1.12 M/s Redox Denim Hub, Plot No. F-100, UPSIDC, Kosi Kotwan Extension 1, Mathura, Uttar Pradesh

- During the inspection of M/s Redox Denim Hub, Plot No. F-100, UPSIDC by joint team on 24.01.2024, no industry was existing at the given address, while only empty land was present at the mentioned plot no. F-100.
- No contact person was available at the location, adjacent industry was also empty and locked from outside, hence no information can be gathered.

Recommendations for unit, on the basis of inspection:

- UPPCB may verify the actual operational status of unit through the status of consent to establish or consent to operate issued to the unit. Appropriate action as may deemed fit under E(P) Act, 1986.

4.1.13 Shreeji Polyfab Pvt. Ltd., Plot No. H-60, Kosi Kotwan Extension-1, UPSIDA, Kosi Distt., Mathura, Uttar Pradesh

- Unit was found operational on the day of visit i.e., 24.01.2024. Unit is engaged in dyeing and bleaching of cotton fabric, polyester fabric and yarns, with consented capacity as 4000 Mtr./day, 6000 Mtr./day and 0.5 TPD, respectively.
- Unit has obtained CCA under Water Act, 1974 and Air Act, 1981 from UPPCB with validity upto 31.12.2023. Unit has provided application copy for its renewal dated 30.11.2023.
- As informed by unit representative, daily average production is about 10,500 Mtr/day. However, logbook for daily production is not maintained.
- Unit has obtained authorization issued under the provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 with validity upto 08.08.2028.
- Unit has installed one borewell in its premises with mechanical flowmeter. Logbook was not maintained for groundwater consumption. Unit has obtained valid NOC from UPGWD for groundwater abstraction with validity upto 20.07.2027 with daily abstraction limit of 32 KLD.
- Unit has installed ETP of 300 KLD capacity with treatment scheme as follows:
Inlet→Screening Unit→ Collection Tank→ Pre-conditioning unit→Bioxie Tank→Biological treatment unit→Membrane Bioreactor →Polisher Sand bed filtration→ Double Stage RO→ Permeate→Treated water for recycle.
RO reject→ Evaporation feed tank→ATFD (Agitated thin film layer)→ Dry salt for disposal.

- Analysis results of sample collected from ETP Inlet show pH – 6.5, BOD – 85.5 mg/l, COD – 2382 mg/l, TSS-164 mg/l and TDS as 2972 mg/l
- Analysis results of sample collected from ETP Outlet show pH – 7.08 (against the norm of 6.5 – 8.5); BOD – 11.2 mg/l (against the norms of 30 mg/l); COD – 58.0 mg/l (against the norms of 250 mg/l); TSS – 25 mg/l (against the norm of 100 mg/l); TDS – 852 mg/l (against the norm of 2100 mg/l); Sulphide – 0.92 mg/l (against norms of 2mg/l), Oil And Grease- 3.9 mg/l (against the consented norm of 10 mg/l), Ammonical Nitrogen- 0.37 mg/l (against the consented norm of 50 mg/l) and T.Cr. as ND. These results indicate compliance with the stipulated discharge norms.

- Water Audit:

Water consumption	437400 m ³ (totalizer)
ETP Inlet	456.96 KLD (instantaneous)
RO Outlet	156.24 KLD (instantaneous)
treated wastewater storage to process	44869 m ³ (totalizer)
coolant or not contact water storage to process	33924 m ³ (totalizer)

- As per industry personal, daily process effluent is around 300 KLD (consented), out of which 240 KLD is recycled and 60 KLD is discharged. However, no logbook has been maintained, hence actual discharge couldn't be estimated and verified.
- Treated effluent is being discharged into Kosi drain via industrial drain which ultimately confluence with River Yamuna.
- Unit is having agreement of hazardous waste disposal with TSDF. About 7020 Kg sludge has been handed over to TSDF on 08.01.2024 (Form-10 attached).
- Unit has not installed OCEMS at ETP Outlet.
- Logbook were not maintained for ETP inlet, ETP outlet, recycled water, Sludge collection, borewell water abstraction, daily production and Chemicals consumed in ETP.

Recommendations for unit, on the basis of inspection:

- Unit shall expedite renewal of its CTO under Air and Water Act.
- Unit shall maintain logbooks for ETP inlet, ETP outlet, recycled water, Sludge collection, borewell water abstraction, daily production and Chemicals consumed in ETP.
- Unit shall install flowmeter at discharge point.

4.2 Survey and Monitoring of Kosi drain at Kosi Kotwan Industrial Area

In Joint Monitoring, Kosi drain is investigated owing to Hon'ble NGT order dated 04.10.2023, in reference to a news item published on 04.06.2022 in Amar Ujala, revealing the death of 12 buffaloes after drinking water from UPSIDC industrial area extension-1, Kosi Kotwan, Mathura (27.811279 77.426963). As per information provided by UPPCB, about 75 industries located in its catchment area discharges partial and completely treated effluent in this drain through the local UPSIDC industrial drain.

Kosi Drain originates from upstream of Kotwan village, near village Shesh Shai, Kosi Kotwan Industrial Area, Kosi Kalan, Mathura (27.857094 77.439050) and travels for approximately 48 km before confluence (27.58305556 77.68722222) with river Yamuna at Sunrakh Bangar, near Banke Bihari Temple in Brindavan, Mathura. In its vicinity, there are 03 villages, viz: Hatana, Kotwan and Nabipur which discharges sewage into this drain. As per information provided by UPPCB, about 75 numbers of industries located in its catchment area have the permission to discharges partial and completely treated effluent in this drain through their local industrial drain (UPSIDC).

Kosi Drain originates from upstream of Kotwan village and travels for approximately 48 km before confluence with river Yamuna near Brindavan, Mathura. It is a mixed and unlined drain. It receives sewage from nearby villages and effluent from industrial clusters located in its catchment area.

During 23.01.2024 to 24.01.2024, monitoring of Kosi drain was carried out at three locations, viz., Kosi drain d/s Kosi Kotwan Industrial Area near Pashupati Fabric Industry; Kosi drain u/s Nabipur Village/Kotwan Industrial Area near Air Liquid India/Anilesh Interprises Ltd.; and Kosi drain u/s Kosi Kotwan Industrial Area near Kotwan Village. The collected drain samples are analysed at Central Laboratory, UPPCB, Lucknow through RO, Mathura. Sampling locations on Kosi drain are shown in **Figure 1**.

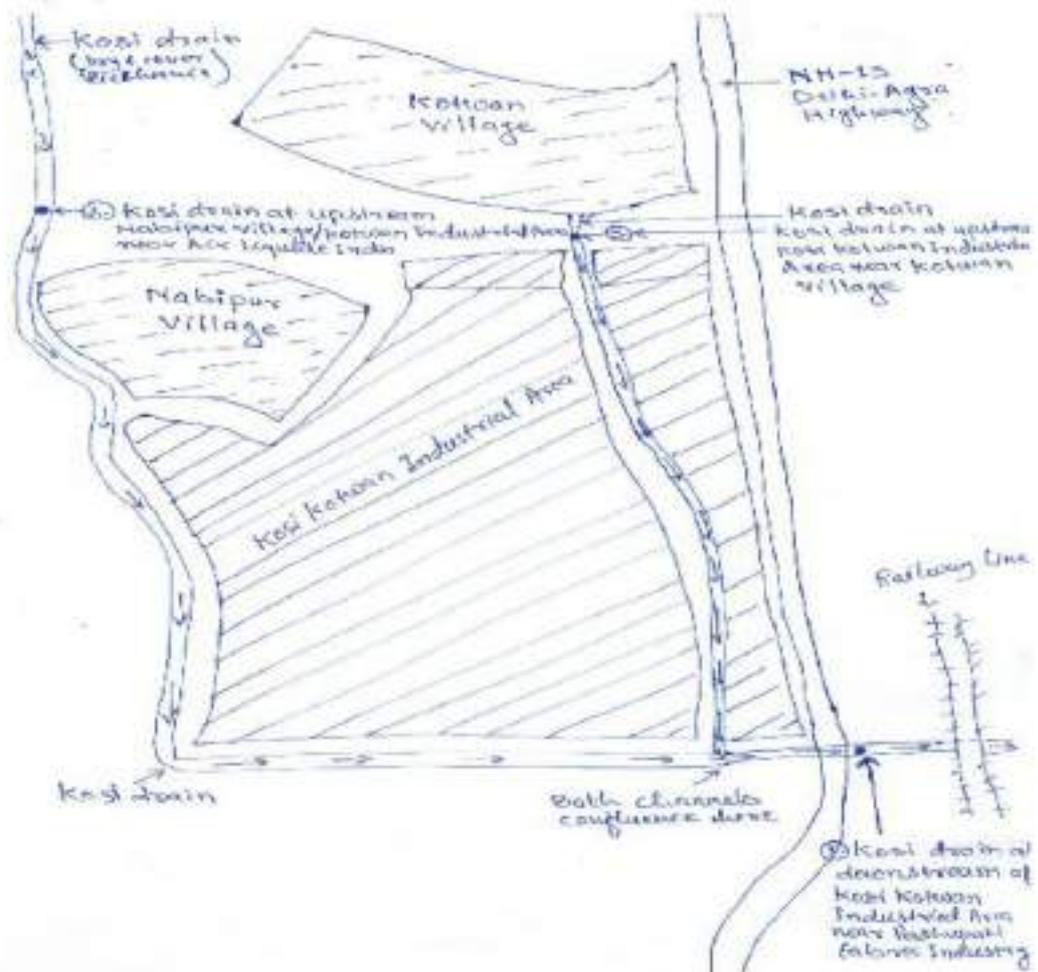


Figure 1: Flow diagram and Sampling locations of Kosi Drain and Kosi Kotwan Industrial Area.



Figure 1.a. Kosi drain was dry & totally

Figure 2.b. Sample collected from upstream

covered by Eichhornia in upstream in upstream of Nabipur Village & Kosi Kotwan Industrial Area



Figure 3.c. Sample collected from near Kotwan Village/ upstream of Kosi Kotwan Industrial Area

of Nabipur Village & Kosi Kotwan Industrial Area, near Air Liquid India/Anilesh Interprises Ltd.



Figure 4.d. Sample collected from near Kotwan Village/ upstream of Kosi Kotwan Industrial Area



Figure 5.e. Sampling location on bridge built over drain near NH-19/ down stream of Kosi Kotwan Industrial Area



Figure 6.f. Sample collected from bridge built over drain near NH-19/ down stream of Kosi Kotwan Industrial Area

Figure 7: Photos of Kosi Drain at Kosi Kotwan Industrial Area.

Details of sample collected during survey and monitoring of Kosi Drain at Kosi Kotwan Industrial Area:

Table 2: Sampling details of Kosi drain at Kosi Kotwan Industrial Area

Name of water body	Sampling location	Co-ordinates	Status of flow	Sample taken (Yes/No)	Physical Characteristics
Kosi drain	U/s Nabipur Village/Kotwan Industrial Area near Air Liquid India/Anilesh Interprises Ltd.	27.823264 77.404485	Stagnant	Yes	<ul style="list-style-type: none"> Flow could not be measured as drain was found stagnant & covered with Eichhornia. As per the analysis results of TC-13×10^3 MPN/100mL, FC-11×10^2 MPN/100mL. BOD-22mg/l & COD:126mg/l Visibly clear.
Kosi drain	U/s Kosi Kotwan Industrial Area near Kotwan Village	27.837649 77.410801	Flow	Yes	<ul style="list-style-type: none"> Flow could not be measured due to lean flow. As per the analysis results of TC-54×10^8 MPN/100mL, FC-36×10^6 MPN/100mL. BOD-70mg/l, COD-288mg/l Visibly milky white colour
Kosi drain	D/s Kosi Kotwan Industrial Area near Pashupati Fabric Industry near NH-19	27.811209 77.429222	Flow	Yes	<ul style="list-style-type: none"> Sample was collected from the bridge. Flow could not be measured as the drain was unapproachable due to dumping of solid waste on one side & on another side no approach to drain available. As per the analysis results of TC-92×10^5 MPN/100mL, FC-68×10^3 MPN/100mL. Solid waste was observed along the drain. Visibly the base of the drain appeared blackish

					<p>with accumulated sludge.</p> <ul style="list-style-type: none">• BOD-78mg/l, COD- 262mg/l indicates sewage characteristics
--	--	--	--	--	---

Table 3: Analysis results of sample collected from three locations of Kosi drain

Name of water body	Sampling location	Color	pH	BOD	COD	TSS	TDS	FDS	PO ₄ -P	Sulphate	NO ₂ -N	NH ₂ -N	Cl ⁻	TC	FC	T.Cr.	Cd	Pb	Fe	Ni	Zn	Mn	As
Kosi drain	U/s Nabipur Village Kotwan Industrial Area near Air Liquid India/Anilesh Interprises Ltd.	40	7.2	22	126	84	982	398	0.91	26.9	6.1	ND	114	13×10 ³	11×10 ⁷	ND	ND	ND	0.3	ND	0.09	0.18	ND
Kosi drain	U/s Kosi Kotwan Industrial Area near Kotwan Village	50	7.2	70	288	126	1464	592	5.7	261.6	38.3	0.06	304	54×10 ³	36×10 ⁶	ND	ND	ND	2.5	ND	0.14	0.24	ND
Kosi drain	D/s Kosi Kotwan Industrial Area near Pashupati Fabric Industry near NH-19	50	8.2	78	262	145	1638	646	0.5	682.24	1.7	0.06	52	92×10 ³	68×10 ³	ND	ND	ND	3.7	ND	.096	0.22	ND

Note: All parameters are expressed as mg/l except pH, colour (Hazen) and TC/FC (MPN/100 ml).

4.2.1 Physico-chemical characteristics of Kosi drain at Kosi Kotwan Industrial Area

Monitoring of Kosi drain was carried out at three locations to assess the impact of industrial discharge from Kosi Kotwan Industrial Area, Mathura (Table 2), out of which, one is located at downstream of Kosi Kotwan Industrial Area and two at upstream of Kosi Kotwan Industrial Area. In Kosi Kotwan Industrial Area, Kosi Drain flows in two channels (Figure 1). One channel is receiving sewage from Nabipur village and industrial effluent from Kosi Kotwan industrial area. Another channel is carrying sewage from Kotwan village and industrial effluent from Kotwan industrial area. After traversing the industrial area, both channel finally merges near Delhi-Agra Highway.

Sampling location on three locations of Kosi drain at Kosi Kotwan Industrial area:

1. Stretch I: Upstream of Nabipur Village & Kotwan Industrial area (right side) to downstream of Kosi Kotwan industrial area
 2. Stretch II: Upstream of incident location (where the reported death of 12 buffaloes occurred) to downstream of Kosi Kotwan Industrial area
- **Stretch I: Kosi drain from upstream of Nabipur Village & Kotwan Industrial area (right side) to downstream of Kosi Kotwan industrial area:**
In this stretch at the upstream of Nabipur village, Kosi drain is completely covered with phytoplanktons (Eicchornia) (Figure 2.a). After travelling some distance, some water was observed in upstream of Nabipur village (Figure 2.b) from where sample was collected. Flow of drain could not be measured due to stagnant condition. The analysis results of drain shown: Color-40 Hz, pH-7.2, BOD-22 mg/l, COD-126 mg/l, TC- 13×10^3 MPN/100ml, FC- 11×10^2 MPN/100ml. The drain is mixed type carrying sewage from Nabipur village alongwith the treated/partially/untreated effluent from Kosi-Kotwan industrial area. After covering distance of approx. 2KM the drain confluences with the Kosi drain flowing at left side of the Kosi-Kotwan industrial area.
 - **Stretch II: Upstream of incident location (where the reported death of 12 buffaloes occurred) to downstream of Kosi Kotwan Industrial area:**
In this stretch the drain enters the Kosi-Kotwan industrial area from left side and the sewage of Kotwan village was also discharged into the drain. At the starting of the stretch the drain wastewater was milky white in colour indicating the discharge of domestic wastewater from Kotwan village. Sample was collected from Kosi drain at upstream of Kosi Kotwan Industrial Area at downstream of Kotwan Village (Figure 2.c and d). The analysis results of drain shown: Color-50 Hz, pH-7.2, BOD-70 mg/l, COD-288 mg/l, TC- 54×10^5 MPN/100 ml, FC- 36×10^6 MPN/100 ml. Lean flow was observed at upstream of Kosi-Kotwan industrial area.

As the drain enters in industrial area the base of the drain appeared to be blackish. In the entire stretch till the downstream of Kosi –Kotwan industrial area it was observed that the industrial drains carrying the industrial effluent (treated/partially/untreated) from Kosi-Kotwan industrial area are finally meeting Kosi drain. Sample was collected from Kosi drain at downstream of Kosi Kotwan Industrial Area at NH-19, Delhi-Agra highway. This location is the downstream of industrial cluster of Kosi Kotwan Industrial Area (Figure 2.e and f). Flow of drain could not be measured due to lean flow and solid waste present in the channel. The analysis results of

drain showed Color-50 Hz, pH-8.2, BOD-78 mg/l, COD-262 mg/l, Fe-3.7 mg/l, TC- 92×10^5 MPN/100ml, FC- 68×10^3 MPN/100ml.

4.2 Observation based on interaction with villagers for verification of truthfulness of incident at Kosi Kotwan Industrial Area

- Interactions were held with villagers of Nabipur village. Upon interaction, the villagers showed the video of the incidence quoted in Hon'ble NGT order OA No. 586/2023 dated 04.10.2023 wherein about 12 buffaloes died after drinking the polluted water from Kosi Drain. They also showed the location at Kosi drain where the incident occurred. Team collected the samples from the drain to assess the quality of the drain. The details of drain characteristics are mentioned in Para 4.2.1.

5. Conclusion based on the joint inspection of Industries and recipient drain in Kosi Kotwan Industrial Area, Mathura

- In compliance of the Hon'ble NGT order in O.A. No. 586/2023 dated 04.10.2023 in the matter of Narender Sirohi Vs State of U.P. & Ors., a joint team was constituted comprising officials from CPCB, HO, RO Mathura and Nayab Tehsildar, Chhata. The joint team has carried out the inspection of 13 industries as per the list provided by the applicant during 23.01.2024 to 24.01.2024. Further, survey and monitoring of Kosi Drain was also carried out by the joint team to study the impact of sewage and industrial effluent in upstream and downstream of Kosi Kotwan Industrial Area.
- The major observations and recommendations pertaining to the 13 units mentioned by the applicant in Original application are summarized in above Para 4.1.
- During the inspection, interaction with villagers and authorities (District administration confirmed the occurrence of the incident regarding the death of 12 buffaloes after drinking water from Kosi drain.
- The quality of drain wastewater deteriorates downstream of the Kosi-Kotwan industrial area. Though the sample analysis results of the drain wastewater indicate the characteristics of sewage but the physical appearance indicates the presence of sludge at the bottom of drain therefore, incidental discharge of untreated/partially treated effluent by industries located in Kosi-Kotwan industrial area into Kosi drain can't be ruled out.

6. Recommendations:

1. UPPCB shall issue necessary direction to the concerned units based on joint committee report observations and recommendations to ensure regular compliance by the industrial units.
2. UPPCB shall carry out regular monitoring of upstream & downstream location of the Kosi drain w.r.t Kosi-Kotwan industrial area on random basis.
3. District Administration shall issue necessary directions to concerned departments for lining of the Kosi drain (both left and right side) in the stretch flowing through Kosi-Kotwan industrial area.

8. Photographs of Industries

M/s Svarn Tex Prints Pvt. Ltd.



Figure 8 Processing Area



Figure 9 ETP Unit

M/s Jainco India



Figure 10 Processing Area



Figure 11 ETP Unit

M/s Bodal chemical Pvt Ltd (Old name: M/s SPS Processors)



Figure 12 Final Product



Figure 13 ETP Unit

M/s Denim Touch



Figure 14 Processing Area



Figure 15 ETP Unit

M/s Balaji Colour Care



Figure 16 Processing Area



Figure 17 ETP Unit

M/s Vaishnavi Tex Print



Figure 18 Entrance Gate



Figure 19 ETP Unit

M/s Shalendra Dyeing



Figure 20 Entrance Gate



Figure 21 ETP Unit

T D Process



Figure 22 Processing Area



Figure 23 ETP Unit

M/s R. K. Process



Figure 24 Processing Area



Figure 25 ETP Unit

Shree Balaji Processor



Figure 26 Processing Area



Figure 27 ETP Unit

M/s Arya Industries



Figure 28 Closed Entrance Gate

M/s Redox Denim Hub, Plot No. F-100, UPSIDC, Kosi Kotwan Extension 1, Mathura, Uttar

M/s Redox Denim Hub, Plot No. F-100, UPSIDC, Kosi Kotwan Extension 1, Mathura, Uttar Pradesh



Figure 29 Empty Land

M/s Shreeji Polyfab Pvt. Ltd



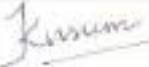
Figure 30 Processing Area



Figure 31 ETP Unit

9. Name of officials of joint team visited during 23-24 January, 2024 at Kosi Kotwan Industrial Area, Mathura, Uttar Pradesh

S.No.	Name of Officials and designation	Organization	Signature
1.	Mr. Raghubir Singh, Assistant Scientific Officer	Uttar Pradesh Pollution Control Board, Regional Office, Mathura	
2.	Sh. Jitendra Kumar, Nayab Tehshildar	Chhata Tehsil, Mathura, Govt. of Uttar Pradesh	
3.	Sh. Harsh Verma, JRF	Uttar Pradesh Pollution Control Board, Regional Office, Mathura	
4.	Sh. Sailesh Maurya, Monitoring Assistant	Uttar Pradesh Pollution Control Board, Regional Office, Mathura	
5.	Ms. Reena Satavan, Scientist E	Central Pollution Control Board, Delhi	
6.	Dr. Chandravir Narayan, Research Associate-I	Central Pollution Control Board, Delhi	

7.	Dr. Divya Raghuvanshi, Senior Research Fellow	Central Pollution Control Board, Delhi	
8.	Ms. Kusum, Senior Research Fellow	Central Pollution Control Board, Delhi	

Item No. 05

Court No. 1

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

Original Application No. 586/2023

Narender Sirohi

Applicant

Versus

State of Uttar Pradesh & Ors.

Respondent(s)

Date of hearing: 04.10.2023

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

Applicant: Mr. Ranjeet Singh Chauhan, Adv.

ORDER

1. In this Original Application, the applicant has raised an issue about the pollution being caused in the Kotwan Industrial area of Kosi Kalan, Mathura District, Uttar Pradesh.

2. We have gone through the prayer made in the OA and we find that the applicant has not substantiated the prayer with the adequate grounds and jurisdictional issues. However, on perusal of the record, we find that a news item dated 04.06.2022 was published in Amar Ujala, Mathura, Uttar Pradesh disclosing that 12 buffaloes had died after drinking the poisonous water coming out from the factories of Kotwan Navipur Industrial Area. The report also mentions that the officers of the Pollution Departments had taken the samples of water and had sent it for the report. The allegation is that the units are releasing untreated poisonous chemicals from the factory in the Kosi drain from which the water was consumed by the buffaloes.

3. We are of the view that for the aforesaid issue, remedial action is required to be taken. Hence, we form a joint Committee comprising of

officer nominated by Member Secretary, CPCB, Member Secretary, UPPCB and the District Magistrate, Mathura. The District Magistrate, Mathura will act as a coordinating officer.

4. The Committee will ensure collection of water sample of discharge from the factories in the concerned area and get the report of the sample and submit it before the Tribunal. The Committee will also ascertain the truthfulness of the incident reported in the newspaper and the allegation of release of untreated chemicals from the factories. The Committee will also ensure the adequate prevention/remedial measures, if the violations of environmental laws is found. Let the report be submitted by the Committee in this regard before the Registrar General of the Tribunal within three 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. If found necessary, matter will be listed for consideration before the Court.

5. The Original Application is accordingly disposed of.

Prakash Shrivastava, CP

Sudhir Agarwal, JM

Dr. A. Senthil Vel, EM

October 04, 2023
Original Application No. 586/2023
SN



केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE GOVT OF INDIA

By Speed Post/Email

CM-13011/153/2023-LAW-HO-CPCB-HO

Date: 14.11.2023

To,

District Magistrate,
Collectorate Compound,
Mathura – 281001

Subject: Nomination in compliance to Hon'ble NGT order dated 04.10.2023 in the matter of Narender Sirohi Vs State of UP & Ors., OA No. 586/2023 reg-

Sir,

This is in reference to above mentioned order dated 04.10.2023 passed by Hon'ble NGT in OA No. 586/2023 wherein the following has been directed,

"3. ... we form a joint Committee comprising of officer nominated by Member Secretary, CPCB, Member Secretary, UPPCB and the District Magistrate, Mathura. The District Magistrate, Mathura will act as a coordinating officer.

4. The Committee will ensure collection of water sample of discharge from the factories in the concerned area and get the report of the sample and submit it before the Tribunal. The Committee will also ascertain the truthfulness of the incident reported in the newspaper and the allegation of release of untreated chemicals from the factories. The Committee will also ensure the adequate prevention/remedial measures, if the violations of environmental laws is found. Let the report be submitted by the Committee in this regard before the Registrar General of the Tribunal within three 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. If found necessary, matter will be listed for consideration before the Court.

In compliance of the above Hon'ble NGT order, it is to inform that Mrs. Reena Satavan, Sci. 'E' (Mob. 8376931053 & email id- reenasatawan.cpcb@nic.in) has been nominated as a member of the Committee on behalf of CPCB. It is also requested that a meeting may be organized to discuss the course of action for timely compliance of the order.

Yours faithfully,

Ajayasthi
14/11/23

(A.K. Vidyarthi)

Director & Divisional Head, WQM-II

'परिवेश भवन' पर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, Delhi-110032

दूरभाष/Tel : 43102030, 22305792, वेबसाईट/Website : www.cpcb.nic.in

INDUSTRIAL INSPECTION REPORTS

		<u>INDUSTRY INSPECTION REPORT</u>
General Information & Operational Details		Date of Inspection 23.01.2024
1.	Name & complete Address:	M/s Svarn Tex Prints Pvt. Ltd., Plot No. D-25 & 26, Kosi Kotwan Industrial Area, Kosi Kalan, Mathura-281403, Uttar Pradesh
2.	Geographical Coordinates (Latitude and Longitude) in Decimal	N: 27.824304 E: 77.4169506
3.	Name of the: occupier/ contact person(s) with designation: a) Telephone/Mobile(s) b) E-mail ID(s)	Mr. Santosh Chaudhary, Plant Head (Mob. No. 9910725809) Mr. Aditu Prakash, HR Manager (Mob. No. 9540475264) E-mail ID: hrd@svarntex.com ; santosh@svarntex.com
4.	Name of SPCBs Regional Office	RO Mathura, UPPCB
5.	Operational Status of the unit	Operational
6.	Operational Schedule	24 hours Operation hours per day & Sunday off 260 Number of Working days per year as per unit representative
7.	Approximate Distance (km) from River Ganga / or its tributary	Approximately 40-45 km from River Yamuna
8.	CGWA NOC status	Validity with date
9.	NOC from CGWA as a permission to abstract groundwater	Not provided (applied as per unit representative but copy not provided)
10.	Consent Status	Validity with date
	Consent to Operate issued under Water Act, 1974 by SPCB	Valid up to 31.12.2025 (Annexure-III(a))
	Consent to Operate issued under Air Act, 1981 by SPCB	Valid up to 31.12.2025 (Annexure-III(b))
	Authorization for Hazardous Waste Disposal issued under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 by SPCB	Valid up to 26.02.2024 (Annexure-III(c))
11.	<u>Product(s) & Capacity-</u> {For all main product(s) and By- product(s)}	i. <u>TOTAL Permitted production (As per consent):</u> Raw material (Dyeing & Printing Fabrics) : 60,000 meter per day Finished Product (Dyeing & Printing Fabrics) : 60,000 meter per day ii. <u>ACTUAL TOTAL production (during the inspection):</u> Raw material (in nos. or weight in TPD): 6-7 tons/day Semi-finished/ Finished product (in TPD):
12.	Type of Industry / Processes involved in operation	Dyeing & Printing Fabrics- Wet processing
13.		RAW WATER SUPPLY
	Source(s) of raw water supply	Tankers, as per unit representative

		Flow meter was not installed
14.	In case of Borewell	Yes 02 Nos. of Borewell were present Flowmeter installed at both the borewells_(mechanical) Totalizer Reading during visit: At Borewell-1: 98707 m ³ At Borewell-2: 53338.3 m ³
15.		Production process, Washing, etc.
	Average Water Consumption (KLD)	574.8 KLD (from logbook of borewell-1, from 24.11.2023 to 23.01.2024)
	Water abstracted during the inspection (KLD)	Borewell 1- 1543 KLD & Borewell 2: totalizer reading -53338.3 m ³
	Water Consumption in KL/ MT of product	0.0082 KL/MT (from borewell-1)
16.	EFFLUENT TREATMENT PLANT Installed (Yes)	
	Status of ETP	Operational
	Sample collected during inspection	Yes
	Type of Sampling	Grab
	Designed capacity of ETP (in KLD)	500 KLD as per unit representative
	Names of all treatment units	Inlet to Screen to Equalization tank (capacity-2.25 lac Ltr.) to Chemical dosing tanks (02 Nos.) to Mixture tank (capacity-50,000 Ltr.) & Settling tank to Biological tanks (02 Nos.) to Secondary Clarifier-1 & 2 to Clear Water Tank (capacity-42,000 Ltr.) to Sand filter to Activated Carbon Filter to Outlet to Industrial drain Settling tank to Press Filter
	Dimensions of treatment units	Not provided
	Processes from where wastewater streams reaching ETP	From unit process-dyeing & printing fabrics
	Type of treatment process	Physico-chemical/ Biological
17.	Name of chemical(s) consumed in ETP and their quantity (in Kg/day)	Ferrous Sulphate, Lime, and Poly electrolytes & Logbook not maintained
18.	System of chemical mixing for solution preparation (Manual/ Mixer)	Manual
19.	System of Chemical dosing	Mechanical through pumps
20.	(Manual/ Mechanical through pumps)	
21.	ETP INLET	
	Flow meter with totalizer installed at ETP inlet	Yes, Flow meter installed at ETP inlet, but non-functional since last two months as per unit representative.
	<u>Logbook maintained:</u> (Yes)	<u>Type of Flowmeter:</u> electromagnetic Instantaneous flow rate Reading: Blank (Flow meter was found non-functional) Totalizer Reading: Blank (Flow meter was found non-

		functional)
		Production processes
	Average Effluent Generation (KLD)	387.88 KLD (from logbook of ETP Inlet, from 24.11.2023 to 23.01.2024 for 49 days)
	Effluent Generation during the inspection (KLD)	Flow meter was found non-functional
23.	ETP OUTLET	
	Flow meter with totalizer installed at ETP outlet	Yes, Installed & working Type of Flowmeter: electromagnetic Instantaneous flow rate Reading: 15.0 m ³ /hr Totalizer Reading: 29605.993 m ³
	<u>Logbook maintained:</u> (Yes)	
		Production processes
	Average Effluent Discharge (KLD)	374.6 KLD (from logbook of borewell-1, from 24.11.2023 to 23.01.2024)
	Effluent Discharge during the inspection (KLD)	360 KLD
24.	TREATED EFFLUENT RECYCLED-No	
	Flow meter (s) at all recirculation lines installed with totalizer	No
25.	Whether Unit has achieved Zero Liquid Discharge?	No
26.	TREATED EFFLUENT DISCHARGED	
	a) No. of consented outlets	01 No.
	b) Actual no. of outlets observed during visit	01 No.
	Whether any By-pass / multiple Outlets of Effluent observed	No
	Mode of discharge from the unit premises	lined
	Ultimate disposal point	Kosi drain to river Yamuna
	Tracked route to reach river Ganga or its tributary (include name of drains/ intermediate rivers)	Kosi drain to river Yamuna to river Ganga
27.	OCEMS STATUS AND DETAILS	
	Whether installed or not	Yes
	Whether connected to CPCB server	Yes, as per unit representative
	Parameters displayed on OCEMS	COD, BOD, TSS, pH, & Flow
	URL, Password and login ID	Not provided
	Frequency of calibration	Not provided
	Last date of calibration	Not provided
	Next due date of calibration	Not provided
	Location of OCEMS (In-line/ On-line)	Outlet line
	Instantaneous values shown on OCEMS during inspection	Flow (m ³ /hr): 15.15 pH : 6.9 TSS (mg/l): 49.20 BOD (mg/l): 13.78 COD (mg/l): 157.44 Any other parameter(s): No

28.	AIR POLLUTION – EMISSION SOURCES & CONTROL							
	Sources of air pollution	Chimney Details	APC Equipment's		Emission Quality			
			Stipulated	Provided	Stipulated			
	Boiler (10 tons) and diesel	02 Stalk through boiler	-	-	-	-	-	-
	Details of D.G Set 02 Nos. @ 500 kVA & 250 kVA		Capacity		Exhaust pipe (in m)		Emission Std.	
			-		-		-	
	Fuel Consumption		Type of fuel		Consumption		Process/ Machine	
			Wood for boiler & Diesel for DG set		20 tons per day		-	
29.	SOLID WASTE & SLUDGE MANAGEMENT							
	Solid waste generated in the unit:		Production Process waste – Not provided ETP Chemical Sludge – Sludge Raw material residues- Not provided Used oil – Not provided Others (if any) – Not Applicable					
	ETP Sludge Dewatering system		Filter press					
	Total Solid waste generated (in Kg/month)		Form 10 provided for the month of May 2023					
	Whether Logbook for Solid Wastegenerated maintained?		June 2023 = 2250 kg October 2023 = 2800 kg (Logbooks not maintained, only provided Form-10 (03 Nos.) & Form-6 for months of Oct. 2023)					
	Average Quantity of Solid generated (in Kg/day)		Not provided					
	Mode of Hazardous waste disposal		Bharat Oil & Waste Management Ltd.					
30.	If Disposal through TSDF site:		Yes, form 10 provided for the month of October 2023					
	Whether Logbook for Solid Waste Disposed maintained?		No					
31.	ENVIRONMENTAL LAB							
	Availability of Environmental Lab (Also, mention type of instruments available in the lab)		Yes					
32.	ELECTRICITY CONSUMPTION IN ETP							
	Whether separate energy meter installed for ETP		Yes					
	Average Electricity Consumption (in KWh/day)		208.08 KWh/day					
	Instantaneous energy meter reading during inspection (in KWh)		15116.4 KWh					
33.	COMPLIANCE STATUS							
	As per effluent discharge norms		Complying					
34.	Effluent Analysis Report- Quality of discharged effluent (for all parameters as notified for the UNIT under Environment (Protection) Rules, 1986/ required as per Consents)							
35.	Parameter	ETP inlet	ETP outlet	Any other location	Notified discharge standard	Norms as per consent	Compliance w.r.t. consent/notified standard	
	pH	9.62	8.33	-	6.5 to 8.5	6.5 to 8.5	Yes	
	BOD (mg/l)	182	28.1	-	30	30	Yes	

COD (mg/l)	1268	224	-	250	250	Yes
TSS (mg/l)	208	94	-	100	100	Yes
FDS (inorganic) (mg/l)	-	-	-	-	-	-
TDS (mg/l)	3894	2027	-	2100	2100	Yes
Sulphide (mg/l)	-	0.81	-	2.0	2.0	Yes
Ammonical Nitrogen (mg/l)	-	1.1479	-	50	50	Yes
Total Chromium (mg/l)	-	ND	-	2.0	2.0	Yes
Oil and Grease (mg/l)	-	Not analyzed	-	-	-	-

□ **Specific Observations:**

1. Unit was found operational on the day of inspection i.e. 23.01.2024. Unit is engaged in Dyeing & Printing of Fabrics with consented capacity of 60,000 Mtr/day. The actual production of unit was 6-7 TPD as per unit representative, however, logbook for daily production details was not maintained.
2. Steps of Wet processing involves: Grey Cloth → Sing & Desizing → Bleaching → Drying → Mercerizing → Dyeing → Drying → Printing → Curing & Ageing → Washing → Finish.
3. Unit has obtained Consent to operate (CTO) under Water Act, 1974 and Air Act, 1981 from Uttar Pradesh Pollution Control Board (UPPCB) with validity upto 31.12.2025 and Authorization for Hazardous waste Management, Rules 2016 from UPPCB with validity upto 26.02.2024.
4. Unit has not obtained No Objection Certificate (NOC) from Uttar Pradesh Ground Water Department (UPGWD) for groundwater abstraction from Borewell.
5. Unit has installed 02 numbers of borewells with mechanical flow meters at both of them. However, flow meter of borewell-2 was found non-functional at the time of inspection. Groundwater abstraction by unit was 574.8 KLD, as per logbook of Borewell-1.
6. Unit also receive freshwater from tankers, however, no logbook or receipt is provided for the same.
7. Unit has installed an Effluent Treatment Plant (ETP) of 500 KLD for treatment of effluent generated in textile processes and it was found operational. ETP treatment Scheme is as follows: Inlet → Screen → Equalization Tank → Chemical dosing & Mixer tanks → Biological tank-1 & 2 → Secondary Clarifier-1 & 2 → Clear water tanks → Sand Filter → ACF → Outlet → outlet lined to drain.
8. Unit has installed flow meter at inlet and outlet of the ETP. However, inlet flowmeter was found non-functional at the time of inspection. As per the unit representative, flow meter is not working since two months. But, logbook for ETP inlet was maintained, according to which wastewater generated by unit was 387.88 KLD.
9. As per the logbook for ETP Outlet, the quantity of treated effluent is being discharged @ 374.6 KLD against the consented quantity of 500 KLD.
10. Analysis results of sample collected from ETP Inlet show pH – 9.62, BOD – 182 mg/l, COD – 1268 mg/l; TSS – 208 mg/l and TDS – 3894 mg/l.
11. Analysis results of sample collected from ETP Outlet show pH – 8.33 (against the consented norm of 6.5 – 9.0); BOD – 28.1 mg/l (against the consented norm of 30 mg/l); COD – 224 mg/l (against the consented norm of 250 mg/l); TSS – 94 mg/l (against the consented norm of 100 mg/l); TDS – 2027 mg/l (against the consented norm of 2100 mg/l), Sulphide – 0.81 mg/l (against the consented

norm of 2.0 mg/l) and Ammonical Nitrogen 1.15 mg/l (against the consented norm of 50 mg/l). Results indicate compliance of ETP Outlet w.r.t. stipulated discharge norms.

12. Treated effluent is being discharged into Kosi drain via industrial drain which ultimately confluence with River Yamuna.

13. Unit has agreement of hazardous waste disposal with Bharat Oil & Waste Management Ltd. (TSDF) with validity upto May 09, 2024. As per form 10 Provided by unit, 2250 kg and 2800 kg sludge has been handed over to TSDF on June 2023 and October 05, 2023, respectively.

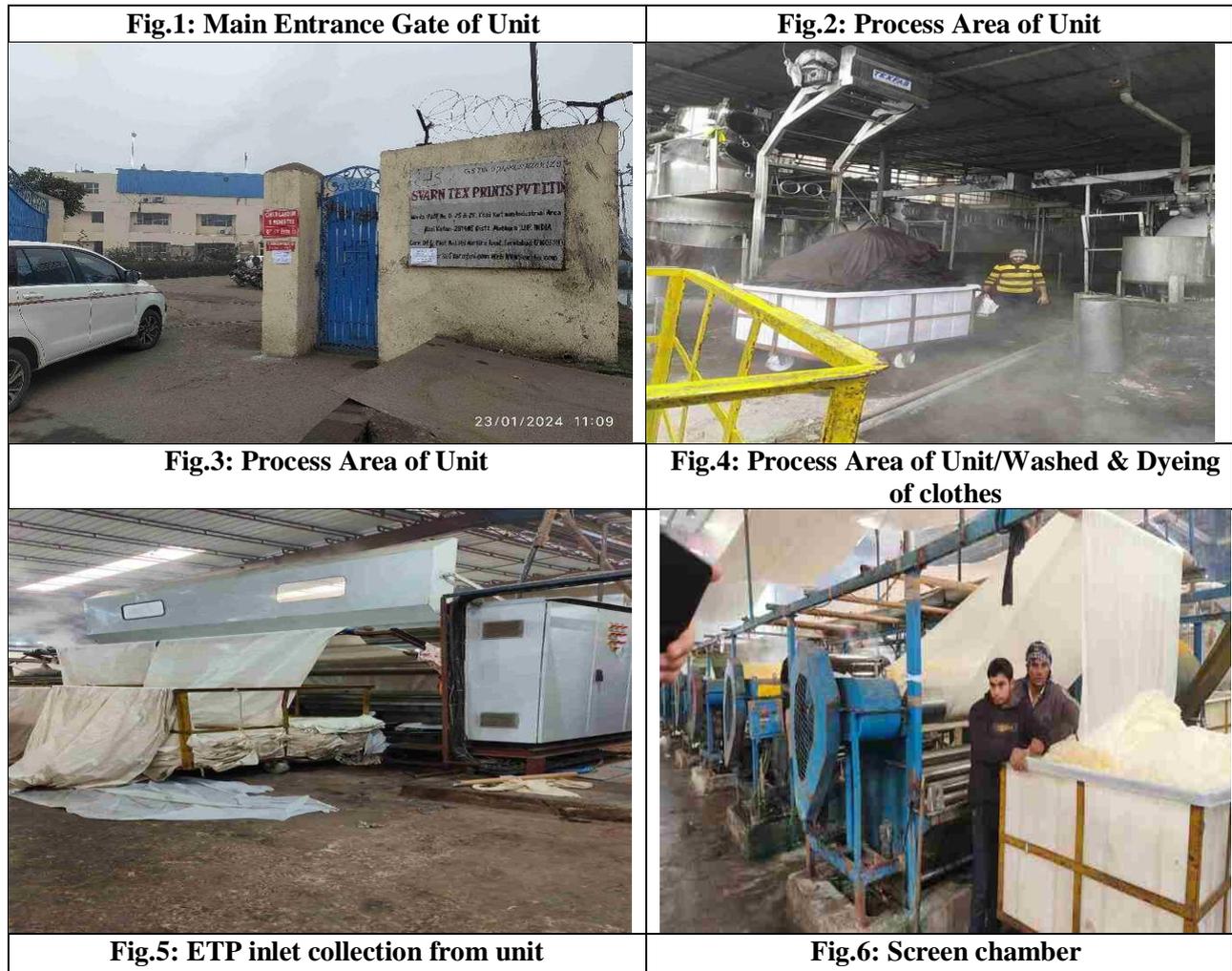
14. Unit has installed the Online Continuous Effluent Monitoring System (OCEMS) at the outlet of ETP.

□ **Specific Recommendations/Suggestions:**

1. Unit shall obtain NOC from UPGWD for groundwater abstraction for both the borewell.
2. Unit shall maintain/repair flow meter of borewell-2 (near main gate).
3. Unit shall maintain/repair flowmeter at ETP inlet.
4. Unit shall maintain logbooks for daily freshwater consume by tankers, daily chemicals consumption in ETP, monthly sludge generation and daily production details.

Overall Compliance Status: Complying

Photographs



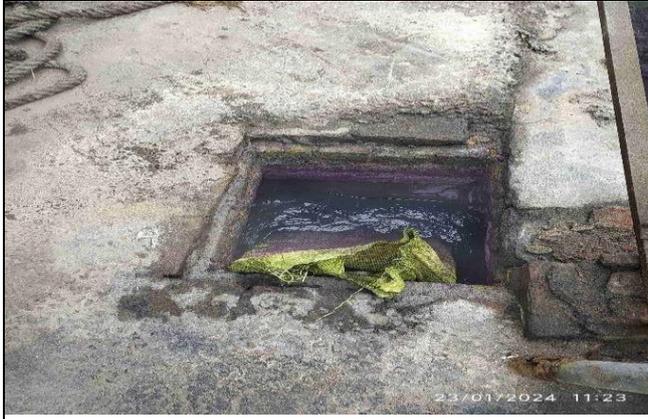


Fig.7: Pumps (02 Nos.) on equalization tanks



Fig.8: Flow meter at ETP inlet (non-functional)



Fig.9: Chemical dosing & Settling tank



Fig.10: Storage tank before Press Filter



Fig.11: Sludge drying beds (02 Nos.) of ETP



Fig.12: Flocculation tank



Fig.13: Biological tank-1 & 2 and Sec. Clarifier



Fig.14: Clear water tank



Fig.15: Sand filter & ACF



Fig.16: Final outlet of ETP unit



Fig.17: Flow meter at ETP outlet



Fig.18: Boiler & fuels (wood)



Fig.19: Stalk of Chimney



Fig.20: Borewell-1 (near main gate)



Fig.21: Flow meter at Borewell-1 (near main gate)



Fig.22: Flow meter at Borewell-2 (near back side)

of unit)



Fig.23: Separate energy meter at ETP unit



Fig.24: ETP Flow diagram



Fig.25: OCEMS



Fig.26: Collected & sealed samples



		INDUSTRY INSPECTION REPORT
General Information & Operational Details		Date of Inspection 23.01.2024
1.	Name & complete Address:	M/s Jainco India, Plot No. D-22, Industrial Area, Kosi Kotwan, Kosi Kalan, Mathura-281403 Uttar Pradesh
2.	Geographical Coordinates (Latitude and Longitude) in Decimal	N: 27.822939 E: 77.416186
3.	Name of the: occupier/ contact person(s) with designation: c) Telephone/Mobile(s) d) E-mail ID(s)	Sh. Vivek Bansal (Partner/Proprietor) Mob. No. 9219765431 Sh. Rahul Agarwal Mob. No. 9422281261 E-mail ID: jaincoindia22@gmail.com
4.	Date/year of commissioning	2023
5.	Name of SPCBs Regional Office	RO Mathura UP PCB
6.	Operational Status of the unit	Operational
7.	Operational Schedule	24 hours/day Operation hours per day 365 days Number of Working days per year
8.	Approximate Distance (Km) from River Ganga / or its tributary	Approximately 40-45 km from River Yamuna
9.	CGWA NOC status	Validity with date
10.	NOC from CGWA as a permission to abstract groundwater	Not provided
11.	Consent Status	Validity with date
	Consent to Operate issued under Water Act, 1974 by SPCB	Yes, valid up to 31.07.2027 (<i>Annexure-IV(a)</i>)
	Consent to Operate issued under Air Act, 1981 by SPCB	Yes, valid up to 31.07.2027(<i>Annexure-IV(b)</i>)
	Authorization for Hazardous Waste Disposal issued under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 by SPCB	Yes, valid up to 31.07.2027 (<i>Annexure-IV(c)</i>)
12.	<u>Product(s) & Capacity-</u> { For all main product(s) and By-product(s) }	iii. <u>TOTAL Permitted production (As per consent):</u> Raw material (in nos. and weight in TPD): Not applicable Semi-finished/Finished product (in TPD): Wire Scrape-36 MT/Month, Carbon Black-75 MT/Month & RPO Waste Oil-77 MT/Month iv. <u>ACTUAL TOTAL production (during the inspection):</u> Raw material (in nos. or weight in TPD): Not provided Semi-finished/ Finished product (in TPD): 7.5 metric tons/day, Oil-2600 kg/day, Carbon- 3 metric tons/day, Wire (Steel)- 1100 kg/day & Gas-no record
13.	Type of Industry / Processes involved in operation	Tyre pyrolysis (the process of converting used tyres into products like Wire Scrape, Carbon Black and RPO Waste Oil)

14.	RAW WATER SUPPLY	
	Source(s) of raw water supply	Submersible 01 No., Flow meter was not installed.
15.	EFFLUENT TREATMENT PLANT	
		Installed (Yes)
	Status of ETP	Operational
	Sample collected during inspection	Yes
	Type of Sampling	Grab
	Designed capacity of ETP /PETP (in KLD)	5 KLD as per unit representative
	Names of all treatment units	Inlet to 03 Nos. Equalization tanks to Chemical dosing & Mixture tank (Settling tank to Sludge drying beds) to Dual Media Filter to Activated Carbon Filter to Outlet to outside drain
	Dimensions of treatment units	Not provided
	Processes from where wastewater streams reaching ETP	Not provided
	Type of treatment process	Physico-chemical
16.	Name of chemical(s) consumed in ETP and their quantity (in Kg/day)	Alum, Lime, Polyelectrolytes
17.	System of chemical mixing for solution preparation (Manual/ Mixer)	Manual
18.	System of Chemical dosing (Manual/ Mechanical through pumps)	Manual
19.	ETP INLET	
	Flow meter with totalizer installed at ETP inlet	No
20.	ETP OUTLET	
	Flow meter with totalizer installed at ETP outlet	No
21.	TREATED EFFLUENT RECYCLED	
	Flow meter (s) at all recirculation lines installed with totalizer	No

22.	Whether Unit has achieved ZeroLiquid Discharge?	No				
23.	TREATED EFFLUENT DISCHARGED					
	c) No. of consented outlets	01 No.				
	d) Actual no. of outlets observed during visit	01 No.				
	Whether any By-pass / multiple Outlets of Effluent observed	No				
	Mode of discharge from the unit premises	Open channel (lined)				
	Ultimate disposal point	Kosi Drain / river Yamuna/ Treated water used in premises of the unit as per unit representative.				
24.	OCEMS STATUS: Not Installed					
25.	AIR POLLUTION – EMISSION SOURCES & CONTROL					
	Sources of air pollution	Chimney Details	APC Equipment's		Emission Quality	
			Stipulated	Provided	Stipulated	
	Pyrolysis system (Boilers 02 Nos.)	30 mtr each (02 Nos.)	-	-	-	-
	Details of D.G Set 01 No. at 63 kVA		Capacity		Exhaust pipe (in m)	Emission Std.
					10 mtr (2 m from roof)	-
	Fuel Consumption		Type of fuel		Consumption	Process/ Machine
			Diesel for DG Set		1-2 hours/day	-
For Boilers Wood/ RPO/Process Gas			-	-		
26.	SOLID WASTE & SLUDGE MANAGEMENT					
	Solid waste generated in the unit:	ETP Chemical Sludge -Yes				
	ETP Sludge Dewatering system	Sludge drying beds				
	Total Solid waste generated (in Kg/month)	100-150 kg/3-months as per unit representative				
	Whether Logbook for Solid Waste generated maintained?	Yes, Form- 10 Attached (No logbook maintained)				
	Average Quantity of Solid generated (in Kg/day)	Not maintained				
	Mode of Hazardous waste disposal	Bharat Oil & Waste Management Ltd. Membership certificate				
Sewage management section: Septic Tank						
27.	If Disposal through TSDF site:	Yes				
	Whether Logbook for Solid Waste Disposed maintained?	Not maintained				
ENVIRONMENTAL LAB						

28.	Availability of Environmental Lab	No					
29.	ELECTRICITY CONSUMPTION IN ETP						
	Whether separate energy meter installed for ETP	No					
30.	COMPLIANCE STATUS						
	As per effluent discharge norms	Complying					
31.	Effluent Analysis Report- Quality of discharged effluent (for all parameters as notified for the UNIT under Environment (Protection) Rules, 1986/ required as per Consents)						
32.	Parameter	ETP inlet	ETP outlet	Any other location	Notified discharge standard	Norms as per consent	Compliance w.r.t. consent/notified standard
	pH	6.86	7.42	-	6.5 to 8.5	6.5 to 8.5	Yes
	BOD (mg/l)	98	24	-	30	30	Yes
	COD (mg/l)	377	218	-	250	-	Yes
	Oil and Grease (mg/l)	-	Not Analyzed	-	10	-	-

Specific Observations:

- Unit was found operational on the day of inspection i.e.23.01.2024. Unit is engaged in tyre pyrolysis with consented capacity of Wire Scrape-36 MT/Month, Carbon Black- 75 MT/Month and RPO Waste Oil-77 MT/Month.
- Unit process scheme: Waste tyre (Nylon/Radial tyre)→Pyrolysis Plant→Pyrolysis oil→Delivery to Refinery Unit; Carbon Black→ Pulverizer Unit→ Collected & sell; Steel wire→compressed→sell; Hydrocarbon gas→ Recycle burning units→ Scrubber→Chimney.
- As informed by unit representative, actual production of Oil is 2.6 MT/day, Carbon-3 MT/day and Wire(steel)-1.1 MT/day, however, no logbook is maintained for the same.
- Unit has obtained Consolidated Consent to Operate and Authorization (CCA) under Water Act, 1974, Air Act, 1981 and Authorization for Hazardous waste Management, Rules 2016 from UPPCB with validity upto 31.07.2027.
- Unit has one borewell in its premises without flowmeter. Unit has not obtained NOC from UPGWD for groundwater abstraction.
- Unit has installed an Effluent Treatment Plant (ETP) of 5 KLD capacity with treatment scheme as Inlet→Equalization Tank (03 Nos.)→ Chemical dosing tanks & Mixer tank→ Tube settler→ Dual Media Filter & ACF→ Outlet.
- ETP was found operational during the visit. Unit has not installed flow meter at ETP inlet and outlet. No chemical dosing was observed in ETP unit at the time of inspection.
- Analysis results of sample collected from ETP Inlet show pH – 6.86, BOD – 98mg/l and COD – 377 mg/l.
- Analysis results of sample collected from ETP Outlet show pH – 7.42 (against the consented norm of 6.5 – 8.5); BOD – 24 mg/l (against the consented norm of 30 mg/l) and COD – 218 mg/l. Results indicate compliance of ETP outlet w.r.t. stipulated discharge norms.

10. Unit has not installed web camera at the outlet of ETP.
11. Unit has not maintained logbooks for ETP inlet, outlet, electricity consumption, daily analysis of ETP inlet-outlet parameters and chemicals consumed in ETP. Also, logbook was not maintained for raw materials consumption (Tyre) for pyrolysis and daily production.
12. Treated effluent is being discharged through open line into Kosi drain via industrial drain which ultimately confluence with River Yamuna.
13. Unit has agreement of hazardous waste disposal with TSDF (Bharat Oil & Waste Management Ltd.) with validity upto March 09, 2024. As per form 10, about 85 kg sludge has been handed over to TSDF on October 16, 2023.

□ **Specific Recommendations/Suggestions:**

1. Unit shall obtain NOC from UPGWD for groundwater abstraction.
2. Unit shall install flow meter at ETP inlet, outlet and borewell. Maintain logbook for the same.
3. Unit shall install web camera at ETP outlet.
4. Unit shall maintain logbooks for ETP inlet, outlet, electricity consumption, sludge generation and chemicals consumed in ETP.
5. Unit shall maintain raw materials (Tyre) and productions log book.

Overall Compliance Status: Complying

Photographs

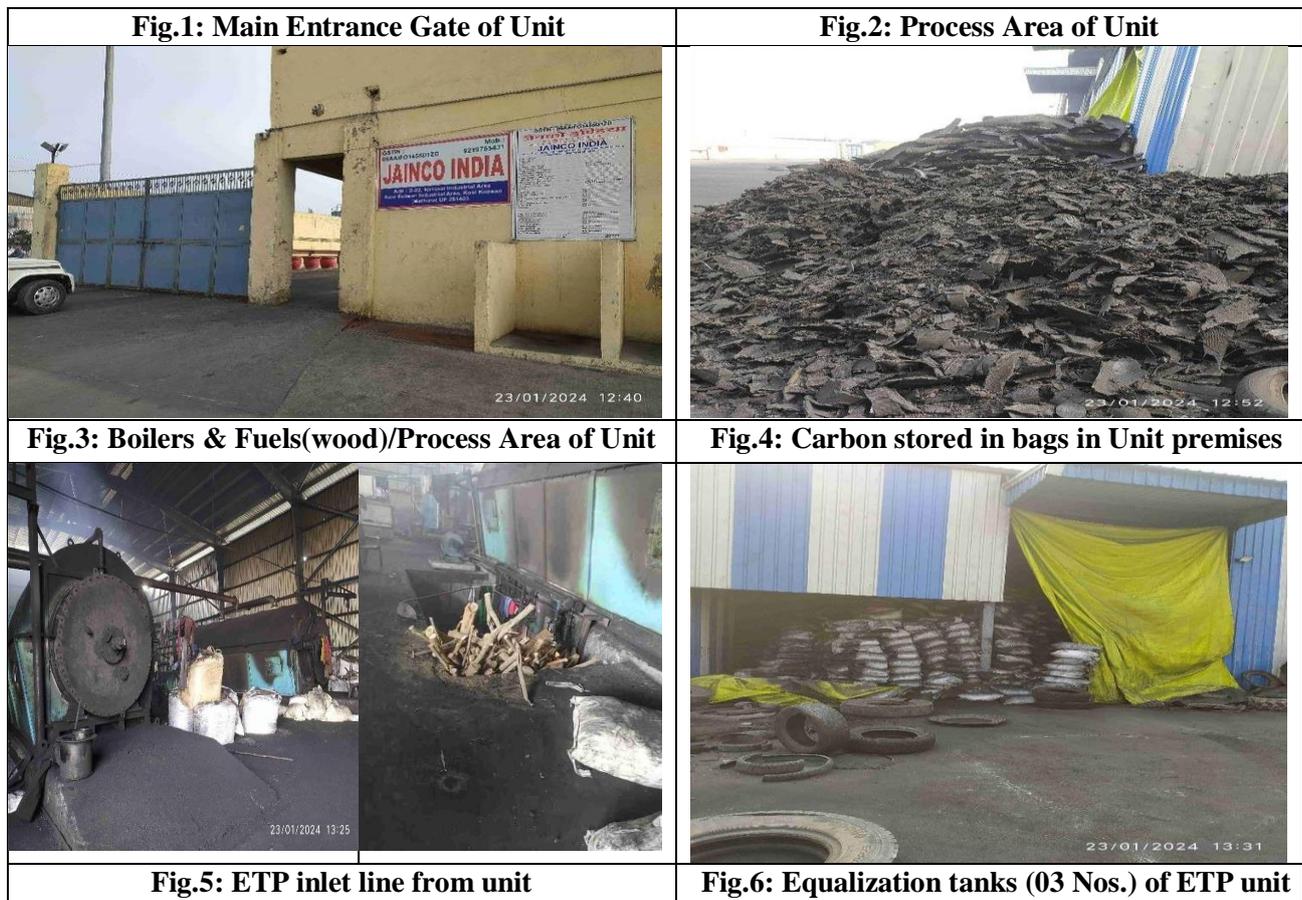




Fig.7: Chemical dosing tanks of ETP unit



Fig.8: ETP unit (Dosing, Mixture & Settling tank & Filters)



Fig.9: Sludge drying beds (02 Nos.) of ETP unit



Fig.10: Media filter & ACF



Fig.11: Final outlet of ETP unit



Fig.12: Submersible without flow meter



Fig.13: Stalks (02 Nos.) of Boilers





 INDUSTRY INSPECTION REPORT	
General Information & Operational Details	
Date of Inspection: 23.01.2024	
1.	Name & complete Address: M/s Bodal chemical Pvt Ltd (Old name: M/s SPS Processors) Plot No. A-2, UPSIDC Industrial Area, Village-Kosi Kotwan, Mathura, 281403 (Copy of the same is attached at Annexure-I)
2.	Geographical Coordinates Latitude: 27.825789 Longitude: 77.417401
3.	Name of the: occupier/ contact person(s) with designation: a) Telephone/Mobile(s) b) E-mail ID(s) Mr. Satish Kalbalia Mob No. 9903891178 Email. env@bodal.com skalbalia@bodal.com Mr. Sailesh Mighamki Mob No. 9909950835
4.	Operational Status of the unit Operational
5.	Operational Schedule 24 Operation hours/ day 365 Number of Working day/year (except holidays)
6.	Approximate Distance (Km) from River Ganga / or its tributary Approximately 40-45 Km's (measured via Google map)
7.	Manufacturing process flow chart for each product Manufacturing process flow chart for each product was provided.
CGWA NOC status	
8.	NOC from CGWA as a permission to abstract groundwater Validity with date validity up to 23.07.2027 (attached at Annexure-V(a))
Consent Status	
Validity with date	
9.	Consent to Operate issued under Water Act, 1974 by SPCB validity up to 31.12.2025 (attached at Annexure-V(b))
	Consent to Operate issued under Air Act, 1981 by SPCB validity up to 31.12.2025 (attached at Annexure-V(c))
	Authorization for Hazardous Waste Disposal issued under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 by SPCB validity up to 31.12.2025 (attached at Annexure-V(d))
10.	<u>Product(s) & Capacity-</u> {For all main product(s) and By-product(s)} i. <u>TOTAL Permitted production (As per consent):</u> Production of Dyes i.e Sulphuric Acid-400 Ton/month Reactive Black-150 Ton/month Reactive Navy Blue- 50 Ton/month & Vinyl Sulphone-150 MT/Month ii. <u>ACTUAL TOTAL production (during the inspection):</u> Finished product (in TPD): H-acid- 400 MT/month Reactive Black-150 MT/month Reactive Navy Blue-50 MT/month & Vinyl Sulphone-150 MT/Month
11.	Type of Industry / Processes involved in operation Dye manufacturing

RAW WATER SUPPLY																															
12.	<p>Source(s) of raw water supply: Borewell</p> <p>02 No's of Borewell(s) found in the unit premise and flow meter with totalizer installed at borewell line.</p> <p><u>Type of Flowmeter:</u> Electromagnetic</p> <p>Borewell 1: Instantaneous flow rate Reading: 0.0 m³/hr Totalizer Reading during visit: 15194.89 m³</p> <p>Borewell 2: Instantaneous flow rate Reading: 0.0 m³/hr Totalizer initial Reading during visit: 34947.21 m³</p> <table border="1"> <thead> <tr> <th>Months</th> <th>Total Raw water (KLD)</th> <th>Total Production water (KLD)</th> <th>Total Reject water (KLD)</th> <th>Production water to Boiler & Machinery (KLD)</th> <th>Reject water to Plant (KLD)</th> </tr> </thead> <tbody> <tr> <td>Jan, 2023</td> <td>47.85</td> <td>35.37</td> <td>12.48</td> <td>35.37</td> <td>12.48</td> </tr> <tr> <td>Dec, 2023</td> <td>47.87</td> <td>34.8</td> <td>13.06</td> <td>34.8</td> <td>13.06</td> </tr> <tr> <td>Nov, 2023</td> <td>46.25</td> <td>33.19</td> <td>13.06</td> <td>33.19</td> <td>13.06</td> </tr> <tr> <td>Average</td> <td>47.32</td> <td>34.45</td> <td>12.86</td> <td>34.45</td> <td>12.86</td> </tr> </tbody> </table>	Months	Total Raw water (KLD)	Total Production water (KLD)	Total Reject water (KLD)	Production water to Boiler & Machinery (KLD)	Reject water to Plant (KLD)	Jan, 2023	47.85	35.37	12.48	35.37	12.48	Dec, 2023	47.87	34.8	13.06	34.8	13.06	Nov, 2023	46.25	33.19	13.06	33.19	13.06	Average	47.32	34.45	12.86	34.45	12.86
Months	Total Raw water (KLD)	Total Production water (KLD)	Total Reject water (KLD)	Production water to Boiler & Machinery (KLD)	Reject water to Plant (KLD)																										
Jan, 2023	47.85	35.37	12.48	35.37	12.48																										
Dec, 2023	47.87	34.8	13.06	34.8	13.06																										
Nov, 2023	46.25	33.19	13.06	33.19	13.06																										
Average	47.32	34.45	12.86	34.45	12.86																										
13.	<p style="text-align: center;">Production process, Washing, etc.</p> <p>Average Water Consumption (KLD) (based on logbook): 47.32 KLD Logbook of last 03 months for fresh water consumption is provided.</p> <p>Water abstracted during the inspection (KLD): 45 KLD</p>																														
14.	<p style="text-align: center;">EFFLUENT TREATMENT PLANT Installed (Yes)</p> <p>Status of ETP: Operational</p> <p>Sample collected during inspection: Yes</p> <p>Type of Sampling: Grab</p> <p>Designed capacity of ETP: 50 KLD (as per unit representative)</p> <p>Names of all treatment units: Collection Tank → Crystallizer → Neutralisation → Filtration → Force Base Circulation Multiple Effect Evaporation System (MEE) → Agitated thin Film dryer/Spray Dryer/Incinerator. Also, mention name of operational treatment units: ETP Flow chart is provided.</p> <p>Dimensions of treatment units: Not Provided</p> <p>Type of treatment process: Physio-chemical followed by tertiary treatment</p>																														
15.	<p>Name of chemical(s) consumed in ETP and their quantity (in Kg/day): Hydrated Lime</p>																														
16.	<p>System of chemical mixing for solution preparation (Manual/Mixer): Manual</p>																														
17.	<p>System of Chemical dosing (Manual/ Mechanical through pumps): Manual</p>																														

ETP INLET																
18.	<p>Flow meter with totalizer installed at ETP inlet <u>Logbook maintained: (Yes)</u></p> <p>Yes <u>Type of Flowmeter:</u> electromagnetic Instantaneous flow rate Reading: 74.5 m³/hr Totalizer Reading: 426300.0 m³</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Months</th> <th style="text-align: center;">MEE Feed (Litre)</th> <th style="text-align: center;">MEE+ATFD Condensate (Litre)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Jan, 2023</td> <td style="text-align: center;">28045</td> <td style="text-align: center;">27540</td> </tr> <tr> <td style="text-align: center;">Dec, 2023</td> <td style="text-align: center;">28034</td> <td style="text-align: center;">27498</td> </tr> <tr> <td style="text-align: center;">Nov, 2023</td> <td style="text-align: center;">31388</td> <td style="text-align: center;">30894</td> </tr> <tr> <td style="text-align: center;">Average</td> <td style="text-align: center;">29155</td> <td style="text-align: center;">28644</td> </tr> </tbody> </table> <p>logbook of last 03 months is maintained.</p>	Months	MEE Feed (Litre)	MEE+ATFD Condensate (Litre)	Jan, 2023	28045	27540	Dec, 2023	28034	27498	Nov, 2023	31388	30894	Average	29155	28644
Months	MEE Feed (Litre)	MEE+ATFD Condensate (Litre)														
Jan, 2023	28045	27540														
Dec, 2023	28034	27498														
Nov, 2023	31388	30894														
Average	29155	28644														
Production processes																
Average Effluent Generation (KLD) (based on logbook of ETP inlet)	29.15 KLD															
Effluent Generation during the inspection (KLD)	36 KLD															
ETP OUTLET																
19.	<p>Flow meter with totalizer installed at ETP outlet <u>Logbook maintained: (Yes)</u></p> <p>Yes <u>Type of Flowmeter:</u> electromagnetic Instantaneous flow rate Reading: 3518.73 m³/hr Totalizer Reading: 198929.33 m³</p>															
Production processes																
Average Effluent Discharge (based on logbook)	28.64 KLD															
Effluent Discharge during the inspection	35 KLD															
TREATED EFFLUENT RECYCLED																
Flow meter (s) at all recirculation lines installed with totalizer	No flowmeter was installed.															
Production processes																
Average Water Recycled (KLD) (based on logbook of Recirculated water)	No information was provided															
Water Recycled during the inspection (KLD)	No information was provided															
Water Recycled in KL/MT of product	No information was provided															
21.	Whether Unit has achieved Zero Liquid Discharge? Yes, ZLD confirmed.															
TREATED EFFLUENT DISCHARGED																
22.	<p>a) No. of consented outlets b) Actual no. of outlets observed during visit</p> <p>ZLD</p>															
Whether any By-pass/ multiple Outlets of Effluent observed	No bypass was observed.															
Mode of discharge from the unit premises	ZLD															

	Ultimate disposal point	ZLD				
	Tracked route to reach river Ganga or its tributary (include name of drains/ intermediate rivers)	ZLD				
Sewage Management Section – Not installed						
OCEMS - Not installed						
AIR POLLUTION – EMISSION SOURCES & CONTROL						
23.	Sources of air pollution	Chimney Details	APC Equipment's		Emission Quality	
			Stipulated	Provided	Stipulated	
	Boiler-10 TPH & Thermopack-6 Lakh Kcal	30 m	NA	NA	Logbook of SOX/NOX & Boiler Dust was provided.	
	Details of D.G Set		Capacity		Exhaust pipe (in m)	Emission Std.
	04 No's (as informed)		02 No's- 1550 kVA 02 No's- 600 kVA		Not Available	
	02 No's (Consented)		625 kVA each			
	Fuel Consumption		Type of fuel		Consumption	Process/ Machine
		Diesel		Not Available		
SOLID WASTE & SLUDGE MANAGEMENT						
24.	Solid waste generated in the unit:	i. Process waste sludge/residues containing acid, toxic metals, organic compounds ii. ETP Sludge iii. Ash from incinerator and flue gas cleaning residue iv. Inorganic residue				
	ETP Sludge Dewatering system	Filter press				
	Average Quantity of Solid generated (in Kg/day) (based on logbook)	Gypsum-17960 Kg/day Iron- 6138 Kg/day Spent Sulphuric Acid-captive-11796 Kg/day Total solid waste generated as per logbook of last 03 months is maintained.				
	Mode of Hazardous waste disposal	Through Bharat Oil and waste management Ltd. (BOWML)				
	If Disposal through TSDF site: (Last four Form- 10 to be attached)	Unit has an agreement with Bharat Oil and waste management Ltd. with validity up to 20 th August, 2024 (Form-10 was available)				
	Whether Logbook for Solid Waste Disposed maintained?	No logbook was maintained for sludge disposal. 28052 kg/month of solid waste was disposed. (as per average of last 02 No's of form-10)				
ENVIRONMENTAL LAB						
25.	Availability of Environmental Lab (Also, mention type of instruments available in the lab)	Yes				
	Staff engaged at ETP (along with nos.)	8 No's of person were engaged at ETP.				
ELECTRICITY CONSUMPTION IN ETP						

26.	Whether separate energy meter installed for ETP		Yes												
	Average Electricity Consumption (in KWh/day) (based on logbook)		11646 KWh (As per logbook of Jan, 2023 is maintained)												
	Instantaneous energy meter reading during inspection (in KWh)		11682.9 KWh												
27.	COMPLIANCE STATUS (Complying)														
	As per effluent discharge norms			Complying											
28.	Effluent Analysis Report- Quality of discharged effluent (for all parameters as notified for the UNIT under Environment (Protection) Rules, 1986/ required as per Consents)														
29.	Parameter	ETP inlet	ETP outlet	Notified discharge standard (Dye and dye intermediate industry)	Norms as per consent	Compliance w.r.t. consent/notified standard									
	pH	7.53	8.04	6.0 to 8.5	6.5 to 8.5	Yes									
	Colour	-	-												
	BOD (mg/l)	284	27	30	30	Yes									
	COD (mg/l)	2121	224	250	250	Yes									
	TSS (mg/l)	568	89	-	100	Yes									
	Chloride (mg/l)	1070	168	-	-	-									
	TDS (mg/l)	-	-	-	-	-									
	Sulphate (mg/l)	1158	38.8	-	-	-									
	Ammonical Nitrogen (mg/l)	-	2.2126	50	50	Yes									
	Nickel (mg/l)	-	0.0139	3.0	3.0	Yes									
	Oil and Grease (mg/l)	-	Not analyzed	10	-	-									
	Hexavalent Chromium (mg/l)	-	ND	0.1	-	-									
	Copper (mg/l)	-	ND	-	-	-									
	Cadmium (mg/l)	-	ND	-	-	-									
	Lead (mg/l)	-	ND	-	-	-									
	Zinc (mg/l)	-	ND	-	-	-									
Phenolic Compounds (mg/l)	-	Not analyzed	1.0	-	-										
Groundwater analysis results:															
Parameters	pH	Colour	BOD	COD	TS	Cl⁻	SO₄²⁻	NH₃-N	T. Cr.	Cu	Cd	Pb	Ni	Zn	Mn
Standards IS 10500:2012, Acceptable limit	6.5 - 8.5	5	-	-	NS	250	200	0.50	0.05	0.05	0.03	0.01	0.02	5	0.1

	Analysis result	7.5 6	5	BDL	BDL	15	12	338	ND	ND	0.0 12	ND	N D	0. 02 9	N D	0. 2 3 2
--	-----------------	----------	---	-----	-----	----	----	-----	----	----	-----------	----	--------	---------------	--------	-------------------

30. **By-pass Analysis Report (s): No**

🔍 Specific Observations:

1. Unit was found operational on the day of inspection i.e. 23.01.2024. Unit is engaged in manufacturing of dyes with consented capacity of H-acid- 400 MT/month, Reactive Black-150 MT/month, Reactive Navy Blue-50 MT/month & Vinyl Sulphone-150 MT/Month.
2. Unit has obtained CTO under Water Act, 1974 and Air Act, 1981 and Authorization for Hazardous Waste Management, Rules 2016 from UPPCB with validity upto 31.12. 2025. The unit has consent for operating at Zero liquid discharge (ZLD).
3. Unit has obtained NOC from UPGWD for groundwater abstraction from 02 Borewells with validity up to 23.07.2027. As per NOC, the unit can abstract a maximum of 148 KLD of groundwater from both borewell.
4. Unit has installed 02 no's of borewell in its premises with electromagnetic flowmeters at both of them. As per logbook of Borewell-1 and Borewell-2, groundwater abstraction by unit was 47.32 KLD.
5. As per unit representative, unit is operating at its full capacity. However, logbook for daily production was not maintained.
6. Unit has installed ETP of 50 KLD capacity for treatment of effluent generated in unit and it was found operational. ETP treatment scheme is as follows: Collection Tank→Crystallizer→Neutralization→Filtration→Force Base Circulation Multiple Effect Evaporation System (MEE)→Agitated thin Film dryer/Spray Dryer/Incinerator.
7. Unit has installed RO system for treatment of fresh water collected from borewell.
8. Unit has installed electromagnetic flowmeters at inlet and outlet of the ETP. As per the logbook for ETP inlet, the quantity of wastewater generated by unit was 29.155 KLD.
9. As per the logbook for ETP Outlet, the quantity of treated effluent is being discharged @ 28.64 KLD.
10. Analysis results of sample collected from ETP Inlet show pH – 7.53; BOD – 284 mg/l; COD – 2121 mg/l; TSS –568 mg/l 8; chloride-1070 mg/l and Sulphate-1158 mg/l.
11. Analysis results of sample collected from ETP Outlet show pH – 8.04 (against the consented norm of 6.5 – 8.5); BOD – 27 mg/l (against the consented norms of 30 mg/l); COD – 224 mg/l (against the consented norms of 250 mg/l); TSS – 89 mg/l (against the consented norm of 100 mg/l); Sulphate – 38.8 mg/l (against the consented norm of 1000 mg/l), Ammonical Nitrogen 2.21 mg/l

(against the consented norm of 50 mg/l) and Chloride as 168 mg/L (against the consented norm of 1000 mg/l). Results indicate compliance of ETP Outlet with the stipulated discharge norms.

12. Analysis result of groundwater collected from unit premises show: pH-7.56, Colour-5 Hz, TSS-15mg/l, Cl-12mg/l, Ammonical Nitrogen-ND, T.Cr.-ND, Copper-0.012mg/l, Cadmium-ND, Lead-ND, Nickel-0.03mg/l. Result indicate, non-compliance of groundwater w.r.t. acceptable limit as sulphate -338 mg/l (against acceptable limit as 200mg/l), and Manganese -0.23 mg/l (against the acceptable limit as 0.1 mg/l).
13. Treated effluent is being discharged into Kosi drain via industrial drain which ultimately confluence with River Yamuna.
14. Unit has not installed web camera at ETP Outlet.
15. Unit has agreement of hazardous waste disposal with TSDF (Bharat Oil & Waste Management Ltd.) with validity upto August 20, 2024. As per form 10, 28030 kg and 28075 kg sludge has been handed over to TSDF on October 13, 2023 and December 18, 2023, respectively.

❖ **Specific Recommendations/Suggestions:**

1. Unit shall install web camera at the outlet of ETP.
2. Unit shall install flowmeter at storage and recycle line for process.
3. Unit shall provide logbook for daily production.

Overall Compliance Status: Complying

Photographs



Photograph 1: ETP



Photograph 2: Crystallizer



Photograph 3: MEE



Photograph 4: ETP Outlet



Photograph 5: RO Plant



Photograph 6: ETP Inlet Flowmeter



Photograph 7: ETP Outlet Flowmeter



Photograph 8: Final Product



Photograph 9: Samples



Photograph 10: Flowmeter at borewell



Photograph 11: Gypsum Yard

Photograph 12: Iron Yard

		<u>INDUSTRY INSPECTION REPORT</u>
General Information & Operational Details		Date of Inspection: 23.01.2024
1.	Name & complete Address:	M/s Denim Touch, Plot No. E-117, Kosi Kotwan, Extension-1, Kosi Kalan, Mathura-281 403 Uttar Pradesh
2.	Geographical Coordinates (Latitude and Longitude) inDecimal	N: 27.812937 E: 77.423837
3.	Name of the: occupier/ contact person(s) with designation: e) Telephone/Mobile(s) f) E-mail ID(s)	Mr. Harikesh Kumar Patel, Plant Incharge Mob. No.:9517344016
4.	Date/year of commissioning	November, 2023
5.	Name of SPCBs Regional Office	UPPCB RO Mathura
6.	Operational Status of the unit	Operational
7.	Operational Schedule	08-10 hours/day Operation hours per day as per unit representative 312 Number of Working days per year as per unit representative
8.	CGWA NOC status	Validity with date
9.	NOC from CGWA as a permission to abstract groundwater	Valid up to 31.12.2027 Copy not provided
10.	Consent Status	Validity with date(Valid copies to be attached)
	Consent to Operate issued under Water Act, 1974 by SPCB	Valid up to 31.12.2027 (Annexure-VI(a))
	Consent to Operate issued under Air Act, 1981 by SPCB	Valid up to 31.12.2027 (Annexure-VI(b))
	Authorization for Hazardous Waste Disposal issued under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 by SPCB	Valid up to 31.12.2027 as per unit representative
11.	<u>Product(s) & Capacity-</u> {For all main product(s) and By- product(s)}	v. <u>TOTAL Permitted production (As per consent):</u> Raw material (in nos. and weight in TPD):1,50,000 Nos./Day Semi-finished/Finished product (in TPD): Other(s): vi. <u>ACTUAL TOTAL production (during the inspection):</u> Raw material (in nos. or weight in TPD): Denim Jeans- 15,000-20,000 pieces/month Semi-finished/ Finished product (in TPD):Not applicable

		Other(s): Not applicable
12.	Type of Industry / Processes involved in operation	Wet processing (Dyeing & washing on fabric (Denim))
13.	RAW WATER SUPPLY	
	Source(s) of raw water supply	Borewell (02 nos.)- without flow meters
14.	EFFLUENT TREATMENT PLANT Installed (Yes)	
	Status of ETP	Operational
	Sample collected during inspection	Yes
	Type of Sampling	Grab
	Designed capacity of ETP (in KLD)	35 KLD
	Names of all treatment units	Inlet to 02 Nos. Equalization tanks to Chemical dosing & Mixture tank (Settling tank to Sludge drying beds) to treated water storage tanks (capacity-50,000 ltr) to 02 Nos. of Filter to Activated Carbon Filter to Outlet to Drain
	Dimensions of treatment units	Not provided
	Processes from where wastewater streams reaching ETP	Dyeing and washing of denims (Jeans)
	Type of treatment process	Physico-chemical
15.	Name of chemical(s) consumed in ETP and their quantity	Ferrous, Lime, Polyelectrolytes; Logbook not maintained
16.	System of chemical mixing for solution preparation (Manual/ Mixer)	Manual
17.	System of Chemical dosing	Manual
18.	ETP INLET	
	Flow meter with totalizer installed at ETP inlet	No
19.	ETP OUTLET	
	Flow meter with totalizer installed at ETP outlet	No
20.	TREATED EFFLUENT RECYCLED	
	Flow meter (s) at all recirculation lines installed with totalizer	Not applicable
21.	Whether Unit has achieved Zero Liquid Discharge?	No
22.	TREATED EFFLUENT DISCHARGED	
	e) No. of consented outlets	01 No.
	f) Actual no. of outlets observed during visit	01 No.
	Whether any By-pass / multiple Outlets of Effluent observed	No
	Mode of discharge from the unit premises	Open channel (lined)

	Ultimate disposal point	river Yamuna					
	Tracked route to reach river Ganga or its tributary (include name of drains/ intermediate rivers)	Open channel (lined) to Kosi Drain to River Yamuna to River Ganga					
23.	Sewage management section: Septic Tank & soak pit						
24.	OCEMS STATUS AND DETAILS						
	Whether installed or not	No					
25.	AIR POLLUTION – EMISSION SOURCES & CONTROL						
	Sources of air pollution	Chimney Details	APC Equipments		Emission Quality		
			Stipulated	Provided	Stipulated		
	Boiler (500 kg)		-	-	-	-	-
	Details of D.G. Set 01 No. and capacity 125 kVA		Capacity		Exhaust pipe (in m)	Emission Std.	
	Fuel Consumption Woods		Type of fuel		Consumption	Process/ Machine	
			Woods for boiler & Diesel for DG Set		500 kg/day (not regular basis) as per unit representative Consented is Wood 1000 Kg/hour	-	
26.	SOLID WASTE & SLUDGE MANAGEMENT						
	Solid waste generated in the unit:	ETP Chemical Sludge – Sludge					
	ETP Sludge Dewatering system	Sludge drying beds					
	Total Solid waste generated (in Kg/month)	Not provided					
	Whether Logbook for Solid Waste generated maintained?	No					
	Average Quantity of Solid generated (in Kg/day) (based on logbook)	Not maintained					
	Mode of Hazardous waste disposal	Not provided					
27.	If Disposal through TSDF site: (Last four Form- 10 to be attached)	Not provided					
	Whether Logbook for Solid Waste Disposed maintained? (Last three months' logbooks to be attached)	Not provided					
28.	ENVIRONMENTAL LAB						
	Availability of Environmental Lab (Also, mention type of instruments available in the lab)	No					
29.	ELECTRICITY CONSUMPTION IN ETP						
	Whether separate energy meter installed for ETP	No					
30.	COMPLIANCE STATUS						

As per effluent discharge norms		Complying					
31.	Effluent Analysis Report- Quality of discharged effluent (for all parameters as notified for the UNIT under Environment (Protection) Rules, 1986/ required as per Consents)						
32.	Parameter	ETP inlet	ETP outlet	Any other location	Notified discharge standard	Norms as per consent	Compliance w.r.t. consent/notified standard
	pH	7.23	8.1	-	6.5 -8.5	6.5 -8.5	Yes
	BOD (mg/l)	89	12	-	30	30	Yes
	COD (mg/l)	268	55.2	-	250	250	Yes
	TSS (mg/l)	208	22	-	100	100	Yes
	TDS (mg/l)	1275	941	-	2100	2100	Yes
	Sulphide (mg/l)	-	1.2	-	2.0	2.0	Yes
	Ammonical Nitrogen (mg/l)	-	0.490	-	50	50	Yes
	Total Chromium (mg/l)	-	ND	-	-	-	-
	Oil and Grease (mg/l)	-	Not Analyzed	-	-	-	-
Specific Observations:							
<ol style="list-style-type: none"> Unit was found operational on the day of inspection i.e. 23.01.2024. Unit is engaged in Dyeing & washing of fabric (Denim) with consented capacity of 150000 numbers per day. Unit has obtained CTO under Water Act, 1974 and Air Act, 1981 from UPPCB with validity upto 31.12.2025 with validity upto 31.12.2027. Unit has not obtained Authorization for Hazardous Waste Management, Rules, 2016 from UPPCB and unit also has not obtained agreement with TSDF for Hazardous waste safe disposal. Unit has installed two borewells in its premises without flowmeters. Also, unit has not obtained NOC for groundwater abstraction from borewells from UPGWD. Unit has installed Effluent Treatment Plant (ETP) of 50 KLD capacity with treatment scheme as: Inlet→Equalization Tank (02 Nos.)→ Flash Mixer→ Tube settler→ Storage tank→Dual Media Filter& Activated Carbon Filter. Inadequate ETP without biological treatment system after primary treatment. Treated effluent is being discharged into Kosi drain via industrial drain which ultimately confluence with River Yamuna. Flowmeters were not installed at ETP inlet and outlet. Unit has not installed the Online Continuous Effluent Monitoring System (OCEMS) at the outlet of ETP. Unit has not maintained logbooks for ETP inlet, outlet, electricity consumption and chemicals consumed in ETP. 							

10. Analysis results of sample collected from ETP Inlet show pH – 7.23, BOD – 89 mg/l and COD – 268 mg/l, TSS-208 mg/L and TDS as 1275 mg/L.
11. Analysis results of sample collected from ETP Outlet show pH – 8.1 (against the norm of 6.5 – 8.5); BOD – 12 mg/l (against the norms of 30 mg/l); COD – 55.2 mg/l (against the norms of 250 mg/l); TSS – 22 mg/l (against the consented norm of 100 mg/l); TDS – 941 mg/l (against the consented norm of 2100 mg/l); Sulphide – 1.2 mg/l (against norm of 2mg/l) and Ammonical Nitrogen 0.49 mg/l (against the consented norm of 50 mg/l). These results indicate compliance with the stipulated discharge norms.

☐ Specific Recommendations/Suggestions:

1. As per textile charter (BMT), unit shall install biological treatment after primary treatment.
2. Unit shall obtain authorization under the provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and NOC from UPGWD for groundwater abstraction and make all the documents available at the ETP.
3. Unit shall install flow meter at ETP inlet, ETP outlet and both the borewells.
4. Unit shall install OCEMS at ETP outlet.
5. Unit shall maintain logbooks for ETP inlet, ETP outlet, electricity consumption and chemicals consumed in ETP.
6. Unit shall maintain logbook for sludge generation and proper disposal. Hazardous waste to be provided to authorized TSDF recycler.

Overall Compliance Status: Complying

Photographs

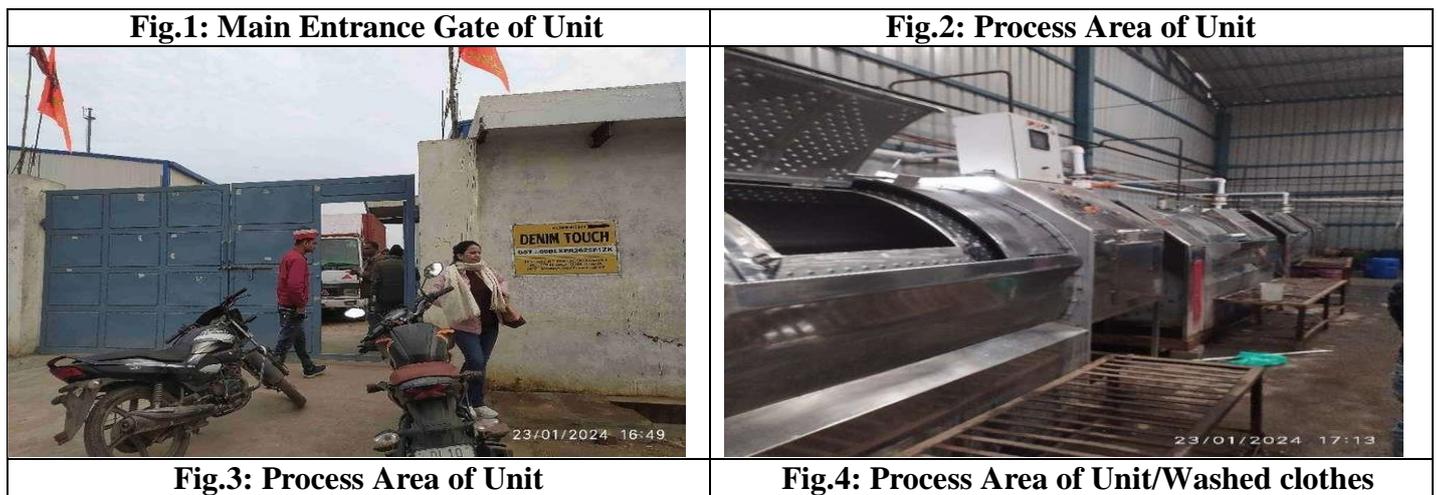




Fig.5: ETP inlet collection from unit



Fig.6: ETP unit from Equalization tanks



Fig.7: Chemical dosing tanks of ETP unit



Fig.8: ETP Mixture & Settling tank



Fig.9: Sludge drying beds (02 Nos.) of ETP



Fig.10: Settling tank of ETP unit



Fig.11: Storage tank & inlet for filter



Fig.12: Storage tank receiving after settling tank



Fig.13: Media filter & ACF



Fig.14: Final outlet of ETP unit



Fig.15: Borewell without flow meter



Fig.16: Baby boiler & fuels (wood) & stalk



Fig.17: DG Set (01 No.) in unit premises



Fig.18: Collected & sealed samples form ETP



		<u>INDUSTRY INSPECTION REPORT</u>		
General Information & Operational Details		Date of Inspection: 23.01.2024		
1.	Name & complete Address:	M/s Balaji Colour Care, Plot No. E-118, Kosi Kotwan Extension-1, Kosi Kalan, Mathura		
2.	Geographical Coordinates (Latitude and Longitude) in Decimal	Latitude: 27.812787 Longitude: 77.423704		
3.	Name of the: occupier/ contact person(s) with designation: c) Telephone/Mobile(s) d) E-mail ID(s)	Mr. Abhishek (Owner) Mob. No.8010528555		
4.	Operational Status of the unit	<i>Operational</i>		
5.	Operational Schedule	Not Provided		
6.	Approximate Distance (Km) from River Ganga / or its tributary	Not Provided		
7.	Manufacturing process flow chart for each product	Not Provided		
8.	CGWA NOC status	Validity with date		
	NOC from CGWA as a permission to abstract groundwater	Not Provided		
9.	Consent Status	Validity with date		
	Consent to Operate issued under Water Act, 1974 by SPCB	Not Provided		
	Consent to Operate issued under Air Act, 1981 by SPCB	Not Provided		
	Authorization for Hazardous Waste Disposal issued under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 by SPCB	Not Provided		
10.	<u>Product(s) & Capacity</u>	No information provided		
11.	Type of Industry / Processes involved in operation	Dyeing and washing of grey readymade garments/Jeans		
RAW WATER SUPPLY				
12.	Source(s) of raw water supply	Borewell		
	In case of Borewell/ Tube well,	No information provided		
13.		Production process, Washing, etc.	Domestic	Others (specify)
	Average Water Consumption	Logbook was not maintained		
	Water abstracted during the inspection			
	Water Consumption in KL/ MT of product			
EFFLUENT TREATMENT PLANT				
14.		Installed (Yes)		
	Status of ETP	Operational		
	Sample collected during inspection	Yes		
	Type of Sampling	Grab		

	Designed capacity of ETP (in KLD)	200 KLD
	Names of all treatment units Also, mention name of operational treatment units	Not Provided
	Dimensions of treatment units	Not Provided
	Processes from where wastewater streams reaching ETP	Not Provided
	Type of treatment process	Physico-chemical followed by tertiary treatment
15.	Name of chemical(s) consumed in ETP and their quantity (in Kg/day)	Not maintained
16.	System of chemical mixing for solution preparation (Manual/ Mixer)	Not Provided
17.	System of Chemical dosing (Manual/ Mechanical through pumps)	Not Provided
ETP INLET		
18.	Flow meter with totalizer installed at ETP inlet	No flowmeter was installed at ETP Inlet.
ETP OUTLET		
19.	Flow meter with totalizer installed at ETP outlet	No flowmeter was installed at ETP Outlet.
TREATED EFFLUENT RECYCLED		
20.	Flow meter (s) at all recirculation lines installed with totalizer	No information was provided
21.	Whether Unit has achieved Zero Liquid Discharge?	No
TREATED EFFLUENT DISCHARGED		
22.	c) No. of consented outlets d) Actual no. of outlets observed during visit	Not Provided
	Whether any By-pass / multiple Outlets of Effluent observed	No
	Mode of discharge from the unit premises	Surface pipeline
	Ultimate disposal point	Industrial Drain (UPSIDC)
	Tracked route to reach river Ganga or its tributary (include name of drains/ intermediate rivers)	Industrial Drain (UPSIDC)→Kosi Drain→River Yamuna
23.	Sewage Management Section – Not installed	
24.	OCEMS - Not installed	

AIR POLLUTION – EMISSION SOURCES & CONTROL						
Sources of air pollution	Chimney Details	APC Equipment's		Emission Quality		
		Stipulated	Provided	Stipulated		
Boiler	NA	NA	NA	NA		
24. Details of D.G Set 01 No. of DG Set	Capacity		Exhaust pipe (in m)	Emission Std.		
	NA		NA	NA		
	Fuel Consumption		Type of fuel	Consumption	Process/Machine	
			Wood & Diesel	NA	NA	
SOLID WASTE & SLUDGE MANAGEMENT						
25.	Solid waste generated in the unit:		ETP Chemical Sludge			
	ETP Sludge Dewatering system		Sludge drying beds			
	Total Solid waste generated (in Kg/month)		Not maintained			
	Whether Logbook for Solid Waste generated maintained?		No logbook was maintained			
	Average Quantity of Solid generated (in Kg/day) (based on logbook)		Not maintained			
	Mode of Hazardous waste disposal		No information was provided			
	If Disposal through TSDF site: (Last four Form- 10 to be attached)		No			
	Whether Logbook for Solid Waste Disposed maintained?		No			
ENVIRONMENTAL LAB						
26.	Availability of Environmental Lab		No			
	Staff engaged at ETP		No information was provided			
ELECTRICITY CONSUMPTION IN ETP						
27.	Whether separate energy meter installed for ETP		No			
	Average Electricity Consumption		No information was provided			
	Instantaneous energy meter reading during inspection		No information was Available.			
COMPLIANCE STATUS						
28.	As per effluent discharge norms		Complying			
29.	Effluent Analysis Report- Quality of discharged effluent (for all parameters as notified for the UNIT under Environment (Protection) Rules, 1986/ required as per Consents)					
30.	Parameter	ETP inlet	ETP outlet	Notified discharge standard	Norms as per consent	Compliance w.r.t. consent/notified standard

	pH	7.80	8.33	6.5 -8.5	6.5 -8.5	Yes
	BOD (mg/l)	136	26.4	30	30	Yes
	COD (mg/l)	278	114.8	250	250	Yes
	TSS (mg/l)	174	48	100	100	Yes
	FDS (inorganic) (mg/l)	-	-	-	-	-
	TDS (mg/l)	1848	964	2100	2100	Yes
	Sulphide (mg/l)	-	ND	-	-	-
	Ammonical Nitrogen (mg/l)	-	0.037	50	50	Yes
	Total Chromium (mg/l)	-	ND	-	-	-
	Oil and Grease (mg/l)	-	Not Analyzed	-	-	-

31. **By-pass Analysis Report (s): No**

🔍 **Specific Observations:**

- Unit was found operational on the day of inspection i.e.23.01.2024. Unit is engaged in dyeing and washing of denim.
- Unit has not obtained CTO under Water Act, 1974; Air Act, 1981 and Authorization for Hazardous Waste Management, Rules 2016 from UPPCB.
- Unit has not obtained NOC from UPGWD for groundwater abstraction from Borewell.
- Unit has installed ETP of 6 KLD with following treatment scheme: Inlet→Equalization Tank → Flash Mixer→ Tube settler→ Storage tank→Multi-Grade Filter & Activated Carbon Filter. Inadequate ETP without biological treatment system.
- Unit has not installed flowmeters at ETP Inlet and ETP Outlet.
- Analysis results of sample collected from ETP Inlet show pH – 7.23; BOD – 89 mg/l; COD – 268 mg/l; TSS – 208 mg/l 8 and TDS-1275 mg/l.
- Analysis results of sample collected from ETP Outlet show pH – 8.1 (against the consented norm of 6.5 – 8.5); BOD – 12 mg/l (against the consented norms of 30 mg/l); COD – 55.2 mg/l (against the consented norms of 250 mg/l); TSS – 22 mg/l (against the consented norm of 100 mg/l); TDS- 941 mg/l (against the consented norm of 2100 mg/l); Sulphide-1.2 mg/l (against the consented norm of 2.0 mg/l) and Ammonical Nitrogen 0.490 mg/l (against the consented norm of 50 mg/l). Results indicate compliance of ETP Outlet with the stipulated discharge norms.
- Treated effluent is discharged through lined to industrial drain to Kosi drain which ultimately confluence with River Yamuna.
- Unit is not having agreement for hazardous waste disposal and management with TSDF.
- Unit has not installed web camera at ETP Outlet.

11. Unit has not maintained manufacturing process flow chart, logbook for daily production, fresh water consumption, ETP process flowchart, waste water generation, waste water discharge, chemical consumption, electricity usage.

🔍 Specific Recommendations/Suggestions:

1. Unit shall obtain CTO under Water Act, 1974; Air Act, 1981 and Authorization for Hazardous Waste Management, Rules 2016 from UPPCB.
2. Unit shall obtain NOC from UPGWD for groundwater abstraction from Borewell.
3. Unit shall install flowmeters at ETP Inlet, ETP Outlet and borewell.
4. Unit shall install web camera at ETP Outlet.
5. As per textile charter (BMT), unit shall install biological treatment after primary treatment.
6. Unit shall maintain supporting documents i.e Manufacturing process flow chart, logbook of total production, fresh water consumption, ETP process flowchart, waste water generation, waste water discharge, chemical consumption & electricity consumption.

Overall Compliance Status: Complying

Photographs



Photograph 1: Entrance Gate



Photograph 2: ETP



Photograph 3: Production Area



Photograph 4: Sludge Drying Bed



Photograph 5: Samples



Photograph 6: ETP Outlet

		<u>INDUSTRY INSPECTION REPORT</u>
General Information & Operational Details		Date of Inspection: 24.01.2024
1.	Name & complete Address:	M/s Vaishnavi Tex Print Plot No. E-124, Kosi Kotwan Industrial Area, Extension-1, Kosi Kalan, Distt-Mathura
2.	Geographical Coordinates (Latitude and Longitude) in Decimal	Latitude: 27.810959 Longitude:77.42218
3.	Name of the: occupier/ contact person(s) with designation: e) Telephone/Mobile(s) f) E-mail ID(s)	Sh. Amit Yadav (Plant Incharge/Owner) Phone No.7838342603 Email.vaishnavitexprints@gmail.com
4.	Operational Status of the unit	<i>Operational</i>
5.	Operational Schedule	8-10 Operation hours/ day Approx. 290 Number of Working days/year
6.	Approximate Distance (Km) from River Ganga / or its tributary (specify name of the tributary)	Approx.40-45 Km's measured by Google map
7.	Manufacturing process flow chart for each product	Fabric→Singeing& Desizing → Scouring & Bleaching → Mercerizing → Dyeing → Printing → Finishing
8.	CGWA NOC status	Validity with date
	NOC from CGWA as a permission to abstract groundwater	Not Provided
9.	Consent Status	Validity with date
	Consent to Operate issued under Water Act, 1974 by SPCB	Provided Validity up to 31.12.2027 (Attached at Annexure-VIII(a))
	Consent to Operate issued under Air Act, 1981 by SPCB	
	Authorization for Hazardous Waste Disposal issued under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 by SPCB	Applied on 14.06.2023 (Attached at Annexure-VIII(b))
10.	<u>Product(s) & Capacity-</u> {For all main product(s) and By-product(s)}	iii. <u>TOTAL Permitted production (As per consent):</u> Dyeing & Bleaching of Cotton Fabrics -2.5 MTD Dyeing & Bleaching of Polyester Fabrics-2.5 MTD Printing of Fabrics (Knits & Woven)-2.0 MTD iv. <u>ACTUAL TOTAL production (during the inspection):</u> Raw material: 266 Kg/day Finished Product: 266 Kg/day
11.	Type of Industry / Processes involved in operation	Dyeing, bleaching & Printing of Cotton, Polyester Fabrics
RAW WATER SUPPLY		
12.	Source(s) of raw water supply	Tanker & Borewell
	In case of Borewell/ Tubewell, <u>Logbook maintained:(No)</u>	No flow meter was installed at Borewell. As informed by plant in-charge, installation of flowmeter is under contract.

13.		Production process, Washing, etc.
	Average Water Consumption	Logbook not maintained
	Water abstracted during the inspection	
Water Consumption in KL/ MT of product		
14.	EFFLUENT TREATMENT PLANT	
		Installed (Yes)
	Status of ETP	Operational
	Sample collected during inspection	Yes
	Type of Sampling	Grab
	Designed capacity of ETP	225 KLD
	Names of all treatment units Also, mention name of operational treatment units	Screen Chamber→ Holding Tank→ Equalization Tank→ Chemical Reaction Tank→Flocculation Chamber →Tube Settler→ SBR Tank→MGF & ACF ETP flowchart was provided.
	Dimensions of treatment units	Not Provided
	Processes from where wastewater streams reaching ETP	Dyeing and Printing
Type of treatment process	Physico-chemical followed by tertiary treatment	
15.	Name of chemical(s) consumed in ETP	Lime, Polyelectrolyte & Ferrous Ammonium Sulphate
16.	System of chemical mixing for solution preparation (Manual/ Mixer)	Manual
17.	System of Chemical dosing (Manual/ Mechanical through pumps)	Manual
18.	ETP INLET	
	Flow meter with totalizer installed at ETP inlet	No flowmeter was installed at ETP Inlet.
19.	ETP OUTLET	
	Flow meter with totalizer installed at ETP outlet	No flowmeter was installed at ETP Outlet.
20.	TREATED EFFLUENT RECYCLED	
	Flow meter (s) at all recirculation lines installed with totalizer	Yes, treated water is being used in unit premises activities like washing, gardening and remaining water is being discharged in to nearby industrial drain as informed. No logbook was maintained for same.
	Whether Unit has achieved Zero Liquid Discharge?	No
22.	TREATED EFFLUENT DISCHARGED	
	e) No. of consented outlets	01
	f) Actual no. of outlets observed during visit	01
	Whether any By-pass / multiple Outlets of Effluent observed	No
	Mode of discharge from the unit premises	Surface pipeline
	Ultimate disposal point	Industrial Drain
Tracked route to reach river Ganga or its tributary	Industrial Drain→Kosi Drain→River Yamuna	
Sewage Management Section – Not installed		
OCEMS - Not installed		

AIR POLLUTION – EMISSION SOURCES & CONTROL							
23.	Sources of air pollution	Chimney Details	APC Equipment's		Emission Quality		
		Boiler- 3.0 TPH Thermopack-10 Lac Kcal	30 m	Multi Cyclone dust collector	Cyclone	NA	
	Details of D.G Set		Capacity		Exhaust pipe	Emission Std.	
	02 No's of DG (consented) 01 DG set (informed)		500 kVA & 62 kVA		5 m & 2 m	NA	
			65 kVA		NA		
	Fuel Consumption		Type of fuel		Consumption	Machine	
			Diesel		1-2 hours/day	DG Set	
			Briquettes		Not available	Boiler	
SOLID WASTE & SLUDGE MANAGEMENT							
24.	Solid waste generated in the unit:		ETP Chemical Sludge				
	ETP Sludge Dewatering system		Filter press				
	Total Solid waste generated		500 kg/month as informed				
	Whether Logbook for Solid Waste generated maintained?		No				
	Average Quantity of Solid generated (based on logbook)		497.70 kg/ month of solid waste was generated. (as per 01 month copy of form-10)				
	Mode of Hazardous waste disposal		Through Bharat Oil and waste management Ltd. (BOWML)				
	If Disposal through TSDF site:		Unit has an agreement with BOWML with validity up to 23 rd May, 2024. Form-10 was Available.				
	Whether Logbook for Solid Waste Disposed maintained?		No				
ENVIRONMENTAL LAB							
25.	Availability of Environmental Lab		No				
	Staff engaged at ETP (along with nos.)		03 person				
ELECTRICITY CONSUMPTION IN ETP							
26.	Whether separate energy meter installed for ETP		Yes				
	Average Electricity Consumption		No logbook was maintained				
	Instantaneous energy meter reading during inspection		1952 kwh				
COMPLIANCE STATUS							
27.	As per effluent discharge norms		Complying				
28.	Effluent Analysis Report- Quality of discharged effluent (for all parameters as notified for the UNIT under Environment (Protection) Rules, 1986/ required as per Consents)						
29.	Parameter	ETP inlet	ETP outlet	Any other location	Notified discharge standard	Norms as per consent	Compliance w.r.t. consent/notified standard
	pH	11.45	8.24	-	6.5 -8.5		Yes
	BOD (mg/l)	178	14	-	30	30	Yes
	COD (mg/l)	627	74.4	-	250	250	Yes
	TSS (mg/l)	212	25	-	100	100	Yes

	TDS (mg/l)	3736	637	-	2100	-	Yes
	Sulphide (mg/l)	-	0.8	-	2.0	2.0	Yes
	Ammonical Nitrogen (mg/l)	-	0.28	-	50	-	Yes
	Total Chromium (mg/l)	-	ND	-	-	-	-
	Oil and Grease (mg/l)	-	Not Analyzed	-	-	10	-

30. **By-pass Analysis Report (s): No**

☛ Specific Observations:

- Unit was found operational on the day of the visit i.e. 24.01.2024. Unit is engaged in Dyeing & Bleaching of Cotton Fabrics with consented capacity of 2.5 Metric Tonnes/day, Dyeing & Bleaching of Polyester Fabrics-2.5 Metric Tonnes/day & Printing of Fabrics (Knits & Woven)-2.0 Metric Tonnes/day.
- Manufacturing process of unit is as follows: Fabric → Singeing & Desizing → Scouring & Bleaching → Mercerizing → Dyeing → Printing → Finishing.
- The ETP receives effluents from dyeing, bleaching, printing and washing process.
- Unit has obtained CTO under Water Act, 1974 and Air Act, 1981 from UPPCB with validity upto 31.12.2027.
- Unit has applied for Authorisation for Hazardous Wastes Management, Rules, 2016 dated 14.06.2023 from UPPCB. Application copy provided.
- Unit has installed one borewell in its premises without flowmeter. Also, unit has not obtained NOC for groundwater abstraction from borewell from UPGWD.
- Unit representative informed that presently the unit is operating at capacity of 266 kg/day Dyeing, bleaching & printing of Cotton & Polyester fabrics.
- Unit has installed Effluent Treatment Plant (ETP) of capacity 225 KLD which was found operational on the day of visit, with treatment scheme as Screen Chamber → Holding Tank → Equalization Tank → Chemical Reaction Tank → Flocculation Chamber → Tube Settler → SBR Tank → MGF & ACF. Chemicals used in ETP are Polyelectrolyte, Ferrous Sulphate and Lime.
- Unit has not installed flowmeter at ETP inlet & outlet.
- Logbooks for ETP inlet, outlet, groundwater abstraction, daily process, sludge generation and management, energy usage and chemical consumption were not maintained.
- Analysis results of sample collected from ETP Inlet show pH – 11.45, BOD – 178 mg/l and COD – 627 mg/l, TSS-212 mg/l and TDS as 3736 mg/l.
- Analysis results of sample collected from ETP Outlet show pH – 8.24 (against the norm of 6.5 – 8.5); BOD – 14 mg/l (against the norms of 30 mg/l); COD – 74.4 mg/l (against the norms of 250 mg/l); TSS – 25 mg/l (against the norm of 100 mg/l); TDS – 637 mg/l (against the norm of 2100 mg/l); Sulphide – 0.8 mg/l (against norm of 2mg/l) and Ammonical Nitrogen 0.28 mg/l (against the consented norm of 50 mg/l). These results indicate compliance with the stipulated discharge norms.
- Unit has not installed OCEMS at ETP Outlet.
- Treated effluent is being discharged into Kosi drain via industrial drain which ultimately confluence with River Yamuna.
- Unit has agreement of hazardous waste disposal with Bharat Oil and waste management Ltd. with validity up to May 23, 2024. As per form 10 provided by unit, 497.7 Kg of sludge has been handed over to TSDF on 26.12.2023.

☛ Specific Recommendations/Suggestions:

1. Unit shall obtain NOC from UPGWD for groundwater abstraction.
2. Unit shall install flowmeters at ETP inlet, ETP outlet and borewell.
3. Unit shall install OCEMS at ETP outlet.
4. Unit shall maintain logbooks for ETP inlet, outlet, groundwater abstraction, daily process, sludge generation and chemical consumption in ETP.

Overall Compliance Status: Complying

Photographs



Photograph 1: Main Gate



Photograph 2: ETP Inlet



Photograph 3: Tertiary Treatment



Photograph 4: Chlorination



Photograph 5: Boiler



Photograph 6: Sample

		<u>INDUSTRY INSPECTION REPORT</u>
General Information & Operational Details		Date of Inspection 24.01.2024
1.	Name & complete Address:	M/s Shailendra Dyeing Plot No. F-75, UPSIDC Industrial Area Kosi Kotwan, Extension-, Mathura, Mathura-281401
2.	Geographical Coordinates (Latitude and Longitude) in Decimal	N: 27.810176 E: 77.424295
3.	Name of the: occupier/ contact person(s) with designation: g) Telephone/Mobile(s) h) E-mail ID(s)	Mr. Shailendra Singh (Owner) No. 9971233847
4.	Operational Status of the unit	Operational
5.	Operational Schedule	24hrs/day... Operation hours per day 300... Number of Working days per year
6.	Manufacturing process flow chart for each product	Grey Stitching → Singing → Merceriser → Boiling/RFD → Dyeing → Washing → checking → Finishing → Packaging → Dispatch
7.	CGWA NOC status	Validity with date
	NOC from CGWA as a permission to abstract groundwater	Not available Application form provided, but not acknowledgement
8.	Consent Status	Validity with date
	Consent to Operate issued under Water Act, 1974 by SPCB	Yes, CCA valid upto 31.12.2026. Copy of the same was not provided.
	Consent to Operate issued under Air Act, 1981 by SPCB	
Authorization for Hazardous Waste Disposal issued under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 by SPCB	Not available	
9.	<u>Product(s) & Capacity-</u> {For all main product(s) and By- product(s)}	v. TOTAL Permitted production (As per consent): Raw material (in nos. and weight in TPD): Semi-finished/Finished product (in TPD): 10000mtr/day Other(s): vi. ACTUAL TOTAL production (during the inspection): Raw material (in nos. or weight in TPD): Semi-finished/ Finished product (in TPD): 10000mtr/day 1m=120g Total=1.2TPD Other(s):

10.	Type of Industry / Processes involved in operation	Dyeing and washings		
RAW WATER SUPPLY				
11.	Source(s) of raw water supply	Borewell		
	In case of Borewell/ Tubewell, Logbook maintained: No	Flow meter is installed with totalizer installed at borewell line. 01 No. of Borewell(s) found in the unit premises having flow meter with totalizer installed <u>Type of Flowmeter:</u> electromagnetic Instantaneous flow rate Reading: 0.0 m ³ /hr Totalizer Reading during visit: 12573.68 m ³		
12.	Production process, Washing, etc.			
	Average Water Consumption	Logbook not maintained		
	Water Consumption in KL/ MT of product	Can't be calculated		
EFFLUENT TREATMENT PLANT				Installed (Yes)
13.	Status of ETP	Operational		
	Sample collected during inspection	Yes		
	Type of Sampling	Grab		
	Designed capacity of ETP /PETP (in KLD)	150KLD		
	Names of all treatment units	Equalization Tank → Flash Mixer → Tube settler → Clarifier Tank → Dual Media Filter → Storage tank → RO		
	Dimensions of treatment units	Annexed		
	Processes from where wastewater streams reaching ETP	Dyeing and washing		
	Type of treatment process	Physico-chemical followed by tertiary (DMF and RO)		
14.	Name of chemical(s) consumed in ETP and their quantity (in Kg/day)	Alum, Lime and Polyelectrolyte		
15.	System of chemical mixing for solution preparation (Manual/ Mixer)	Mixer		
16.	System of Chemical dosing (Manual/ Mechanical through pumps)	Mixer		
ETP INLET				
17.	Flow meter with totalizer installed at ETP inlet <u>Logbook maintained:</u> Yes	Yes <u>Type of Flowmeter:</u> electromagnetic Instantaneous flow rate Reading: 2.84 m ³ /hr Totalizer Reading: ..10324.01.. m ³		
		Production processes	Domestic uses	Others (specify)
	Average Effluent Generation (KLD)	39.6 KLD (based on logbook for 41 days, 1.12.2023 to 16.1.2024)		
	Effluent Generation in KL/ MT of product	33KL/MT		
ETP OUTLET				
18.	Flow meter with totalizer installed at ETP outlet	Yes <u>Type of Flowmeter:</u> electromagnetic		

	<u>Logbook maintained:</u> yes	Instantaneous flow rate Reading: 0.0 m ³ /hr Totalizer Reading: 10507.9 m ³					
		Production processes					
	Average Effluent Discharge (KLD)	43.4 KLD (based on logbook for 41 days, 1.12.2023 to 16.1.2024)					
	Effluent Discharge in KL/ MT of product	36.17 KL/MT					
	TREATED EFFLUENT RECYCLED						
19.	Flow meter (s) at all recirculation lines installed with totalizer: Logbook maintained:	No flowmeter was found installed at recirculation channel Logbook not maintained					
20.	Whether Unit has achieved Zero Liquid Discharge?	No					
	TREATED EFFLUENT DISCHARGED						
	g) No. of consented outlets	01					
	h) Actual no. of outlets observed during visit	01					
21.	Whether any By-pass / multiple Outlets of Effluent observed	No					
	Mode of discharge from the unit premises	Underground pipeline					
	Ultimate disposal point	Industrial Drain (UPSIDC)					
	Tracked route to reach river Ganga or its tributary	Industrial Drain (UPSIDC)→Kosi Drain→ River Yamuna					
	AIR POLLUTION – EMISSION SOURCES & CONTROL						
	Sources of air pollution	Chimney Details	APC Equipments		Emission Quality		
			Stipulated	Provided	Stipulated		
	Boiler	30m	Wet scrubber		-	-	-
22	Details of D.G Set		Capacity		Exhaust pipe (in m)		Emission Std.
	02 nos.		250KvA, 125 KvA		-		-
	Fuel Consumption		Type of fuel		Consumption		Process/ Machine
			Briquettes		45 tonne/month		
	SOLID WASTE & SLUDGE MANAGEMENT						
	Solid waste generated in the unit:	ETP Chemical Sludge					
	ETP Sludge Dewatering system	Filter press					
	Whether Logbook for Solid Waste generated maintained?	Logbook not maintained					
23	Average Quantity of Solid generated (in Kg/day) (based on logbook)	Logbook not maintained					
	Mode of Hazardous waste disposal	Through TSDF Site-Agreement annexed					
	If Disposal through TSDF site: (Last four Form- 10 to be attached)	Yes Form 10 dated 22 Aug,2023 annexed.					
	Whether Logbook for Solid Waste Disposed maintained?	Logbook not maintained					

24	ENVIRONMENTAL LAB						
	Availability of Environmental Lab (Also, mention type of instruments available in the lab)	Yes					
25	ELECTRICITY CONSUMPTION IN ETP						
	Whether separate energy meter installed for ETP	Yes					
	Average Electricity Consumption (in KWh/day) (based on logbook)	Yes, 36.43KWh/day (for 41 days)					
	Instantaneous energy meter reading during inspection (in KWh)	38.4KW					
26	COMPLIANCE STATUS						
	As per effluent discharge norms	Complying					
27	Effluent Analysis Report- Quality of discharged effluent (for all parameters as notified for the UNIT under Environment (Protection) Rules, 1986/ required as per Consents)						
	Parameter	ETP inlet	ETP outlet	Any other location	Notified discharge standard	Norms as per consent	Compliance w.r.t. consent/notified standard
	pH	10.07	8.13	-	6.5 -8.5		Yes
	BOD (mg/l)	119	15.8	-	30	30	Yes
	COD (mg/l)	292	68	-	250	250	Yes
	TSS (mg/l)	92	32	-	100	100	Yes
	TDS (mg/l)	3006	1920	-	2100		Yes
	Sulphide (mg/l)	-	0.3	-	2.0	2.0	Yes
	Ammonical Nitrogen (mg/l)	-	0.437	-	50		Yes
	Total Chromium (mg/l)	-	ND	-	-	-	-
	Oil and Grease (mg/l)	-	Not Analyzed	-	-	10	-
❖ Specific Observations:							
<ol style="list-style-type: none"> Unit was found operational at the day of visit i.e 23-01.2024. Unit has obtained CTO under Water Act, 1974 and Air Act, 1981 from UPPCB with validity upto 31.12.2025 for carrying out Dyeing & Printing of fabrics-10,000 Mtr./day. As informed by representative, presently it is operating at full capacity (10,000 Mtr./day) for dyeing and washing. However, logbook for daily production is not maintained. As informed by representative, unit has applied for hazardous waste Authorization under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 from UPPCB, however, application copy was not provided. As informed by representative, unit has applied for NOC from UPGWD for groundwater abstraction. However, application copy was not provided. 							

6. Unit has installed an ETP of capacity 150 KLD which was found operational on the day of visit, with treatment scheme as Equalization Tank → Flash Mixer → Tube settler → Clarifier Tank → Dual Media Filter → Storage tank. Inadequate ETP without biological treatment system.
7. Analysis results of sample collected from ETP Inlet show pH – 10.07, BOD – 119 mg/l, COD – 292 mg/l; TSS – 92 mg/l and TDS – 3006 mg/l.
8. Analysis results of sample collected from ETP Outlet show pH – 8.13 (against the consented norm of 6.5 – 8.5); BOD – 15.8 mg/l (against the consented norms of 30 mg/l); COD – 68 mg/l (against the consented norms of 250 mg/l); TSS – 32 mg/l (against the consented norm of 100 mg/l); TDS – 1920 mg/l (against the consented norm of 2100 mg/l); Sulphide – 0.3 mg/l (against the consented norm of 2mg/l) and Ammonical Nitrogen 0.44 mg/l (against the consented norm of 50 mg/l). Results indicate compliance of ETP Outlet with the stipulated discharge norms.
9. Flowmeter was found installed at ETP Inlet. As per logbook, wastewater generation is 39.6 KLD.
10. Flowmeter was found installed at ETP outlet. As per logbook, treated wastewater discharge is 43 KLD.
11. As per unit representative, the treated water is reused in process, chemical dosing of ETP and excess of it is discharged out. However, flowmeter was not found installed on recycling line.
12. Treated effluent is discharged through lined to industrial drain to Kosi drain which finally confluence with River Yamuna.
13. Unit has installed RO plant for treatment of fresh water collected from borewell. However, no record was maintained for RO reject.
14. Logbooks were found maintained for ETP inlet, ETP outlet, electricity consumption, Daily analysis of ETP inlet-outlet parameters and Chemicals consumed in ETP. As per logbook provided, wastewater generation is less than wastewater discharge.
15. Unit has generation agreement with TSDF for hazardous waste disposal. About 554.82 Kg sludge has been handed over on 22.08.2024 (Form-10 provided).
16. Unit has not installed online continuous effluent monitoring system (OCEMS) at ETP Outlet.

✪ ***Specific Recommendations/Suggestions:***

1. Unit shall obtain NOC from UPGWD and authorization for hazardous waste handling from UPPCB.
2. Unit shall maintain logbooks for sludge generation and disposal, groundwater consumption, daily production and recycled water.
3. Flowmeter shall install at recycling line.
4. As per textile charter (BMT), unit shall install biological treatment after primary treatment.

Overall Compliance Status: Complying

Photographs:



Fig.1: Main Entrance Gate



Fig.2: Equalization Tank



Fig.3: ETP Inlet flowmeter



Fig.4: Flash mixer



Fig. 5: Tube settler



Fig. 6: Disinfection unit



Fig 7: RO Plant

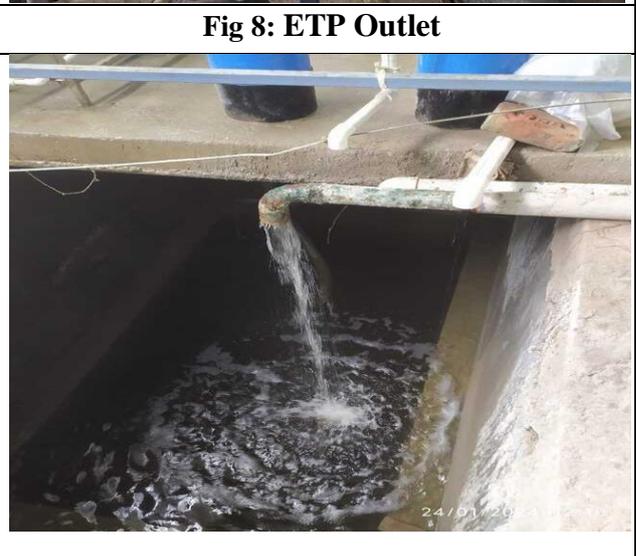


Fig 8: ETP Outlet

Fig 9: ETP outlet flowmeter



Fig.10: Filter Press



Fig.11: Sludge collected and stored



Fig 12: Boiler



Fig 13: Borewell



Fig 14: Borewell flowmeter



Fig 15: DG Set



Fig 16: Energy meter



Fig. 17: Process



Fig 18: Samples collected



		INDUSTRY INSPECTION REPORT
General Information & Operational Details		Date of Inspection: 24.01.2024
1.	Name & complete Address:	T. D. Process Plot No. F-55, Industrial Area, Kosi Kotwan, Extension-1, Mathura-281 403, Uttar Pradesh
2.	Geographical Coordinates (Latitude and Longitude) in Decimal	N: 27.811058 E: 77.425249
3.	Name of the: occupier/ contact person(s) with designation: g) Telephone/Mobile(s) h) E-mail ID(s)	Sh. Mumraj, Proprietor 9810700708
4.	Name of SPCBs Regional Office	UPPCB RO Mathura
5.	Operational Status of the unit	Non-Operational Unit main gate was open at the time of inspection on 24.01.2024 at 01:05 PM onwards. No one present in unit premises except security guard. Process parts of Unit and ETP was found non-operational.
6.	Consent status	No consent was provided
7.	Actual Production	No information provided
8.	Type of Industry	Textile (Washing of clothes)
Specific Observations:		
<ol style="list-style-type: none"> Unit was found non-operational on the day of inspection i.e. 24.01.2024. As informed, unit is engaged in washing of clothes. During inspection, no one was present in unit premises except security guard. Process parts of Unit and ETP was found non-operational. However, the boiler was found burning, which indicates that unit seems operating. Later on, the team re-visited the unit again on the same day, then the owner of unit was present and he confirmed that Unit was non-operational as the boiler was under maintenance. Unit has not provided any information and document and has not maintained any logbook. Sampling was not performed during inspection as the ETP unit was found non-operational. It is observed that treatment scheme of ETP is: Inlet→Equalization Tank→ Chemical dosing tank→Mixer tank→ Settling tank→ MGF→ ACF. 		
Specific Recommendations/Suggestions:		
<ol style="list-style-type: none"> Appropriate action as deemed fit under E(P) Act,1986. 		
Overall Compliance Status: Unit was non-operational (Compliance status of Unit could not be verified).		

Photographs

<p>Fig.1: Main Entrance Gate of T. D. Process</p>  <p>A photograph showing the main entrance gate of the T. D. Process facility. The gate is a large blue metal door set in a concrete wall. A sign above the gate reads 'T.D. PROCESS'. Three people are standing near the gate. A timestamp '24/01/2024 13:05' is visible in the bottom right corner.</p>	<p>Fig.2: Process Area of Unit</p>  <p>A photograph of the process area of the unit, showing a large, dark, circular industrial tank or drum. The floor is cluttered with a large pile of wooden planks and debris. A timestamp '24/01/2024 13:07' is visible in the bottom right corner.</p>
<p>Fig.3: Chimney of boiler</p>  <p>A photograph showing the chimney of the boiler, which is a tall, thin metal pipe extending from the roof of the facility. A red flag is flying from a pole nearby. A large pile of wooden planks is visible in the foreground. A timestamp '24/01/2024 13:07' is visible in the bottom right corner.</p>	<p>Fig.4: DG set</p>  <p>A photograph of a green Diesel Generator (DG) set housed in a metal enclosure. The enclosure is situated outdoors under a corrugated metal roof. A timestamp '24/01/2024 13:07' is visible in the bottom right corner.</p>
<p>Fig.5: Process area</p>  <p>A photograph of the process area, showing a large pile of wooden planks and debris. A blue metal structure is visible in the background. A timestamp '24/01/2024 13:07' is visible in the bottom right corner.</p>	<p>Fig.6: Process Area of Unit/Clothes was drying</p>  <p>A photograph showing clothes hanging on a line to dry in the process area. The clothes are dark-colored. A timestamp '24/01/2024 13:10' is visible in the bottom right corner.</p>
<p>Fig.7: ETP inlet</p>  <p>A photograph of the ETP inlet, showing a concrete structure with a large opening. A timestamp '24/01/2024 13:12' is visible in the bottom right corner.</p>	<p>Fig.8: ETP unit</p>  <p>A photograph of the ETP unit, showing a large green structure with blue cylindrical tanks and a staircase. A person is standing on the staircase. A timestamp '24/01/2024 13:10' is visible in the bottom right corner.</p>
<p>Fig.9: Sludge drying beds of ETP</p>  <p>A photograph of the sludge drying beds of the ETP, showing a concrete structure with a grid of metal bars. A timestamp '24/01/2024 13:12' is visible in the bottom right corner.</p>	

		<u>INDUSTRY INSPECTION REPORT</u>
General Information & Operational Details		Date of Inspection: 24.01.2024
1.	Name & complete Address:	M/s R.K. Process, F-88, Industrial Area, Kosi Kotwan Ext-1, Distt. -Mathura-281403
2.	Geographical Coordinates (Latitude and Longitude) in Decimal	N: 27.811864 E: 77.424468
3.	Name of the: occupier/ contact person(s) with designation: i) Telephone/Mobile(s) j) E-mail ID(s)	Mr. Rampreet Singh (owner) Ph. No. 9899659521 rampreetsahni649@gmail.com
4.	Operational Status of the unit	Operational
5.	Operational Schedule	8-10 hr/day Operation hours per day 200-240 Number of Working days per year
6.	Manufacturing process flow chart for each product	Jeans and readymade garments → wet → color → Dry (hydro) → dry (natural) → pressing/finishing → dispatch (as per feasibility report).
7.	CGWA NOC status	Validity with date
	NOC from CGWA as a permission to abstract groundwater	Not Provided
8.	Consent Status	Validity with date
	Consent to Operate issued under Water Act, 1974 by SPCB	CCA validity up to 31.12.2024 Copy of the same was not provided.
	Consent to Operate issued under Air Act, 1981 by SPCB	
	Authorization for Hazardous Waste Disposal issued under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 by SPCB	Not Provided
9.	<u>Product(s) & Capacity-</u> {For all main product(s) and By- product(s)}	i. <u>TOTAL Permitted production (As per consent):</u> 1500 nos. /day ii. <u>ACTUAL TOTAL production (during the inspection):</u> Raw material (in nos. or weight in TPD): Semi-finished/ Finished product (in TPD): Other(s):500-550 nos./day (Jeans) @300gms/pc=0.165 TPD
10.	Type of Industry / Processes involved in operation (such as electroplating/ fabrication of parts/	Dyeing and washing (as per consent) Only washing was going on during the visit (As per owner)

	assembly of parts/ automobile parts/ service station/ etc.)			
RAW WATER SUPPLY				
	Source(s) of raw water supply	Tubewell		
11.	In case of Borewell/ Tubewell, <u>Logbook maintained:</u> (No)	01 No. of Borewell found in the unit premises No flow meter with totalizer installed at borewell line was Installed at Borewell. No logbook was maintained		
		Production process, Washing, etc.	Domestic	Others (specify)
12.	Average Water Consumption	No logbook was maintained		
	Water abstracted during the inspection			
	Water Consumption in KL/ MT of product			
EFFLUENT TREATMENT PLANT Installed (Yes)				
	Status of ETP	Operational		
	Sample collected during inspection	Yes		
	Type of Sampling	Grab		
	Designed capacity of ETP /PETP (in KLD)	50 KLD		
13.	Names of all treatment units (Flowchart to be attached) Also, mention name of operational treatment units	Untreated effluent → Bar screen → equalization tank → Dosing and mixer tank → tube settler → treated water collection tank (buffer tank) → multigrade filter → activated carbon filter → outlet.		
	Dimensions of treatment units	Annexed in feasibility report		
	Processes from where wastewater streams reaching ETP	Dyeing and washing		
	Type of treatment process	Physico-chemical followed by tertiary unit		
14.	Name of chemical(s) consumed in ETP and their quantity (in Kg/day)	Lime, Poly electrolyte and Ferrous ammonium sulphate No logbook was maintained for same.		
15.	System of chemical mixing for solution preparation (Manual/ Mixer)	Mixer		
16.	System of Chemical dosing (Manual/ Mechanical through pumps)	Mixer		
ETP INLET				
	Flow meter with totalizer installed at ETP inlet <u>Logbook maintained:</u> No	No Flowmeter was found installed at ETP inlet.		
17.		Production processes	Domestic uses	Others (specify)
	Average Effluent Generation	No logbook maintained		
	Effluent Generation during the inspection			
	Effluent Generation in KL/ MT of product	Can't be calculated		

ETP OUTLET		
	Flow meter with totalizer installed at ETP outlet <u>Logbook maintained: No</u>	No Flowmeter was found installed at ETP outlet.
18.	Average Effluent Discharge (KLD) (based on logbook of ETP outlet)	Production processes Domestic uses Others (specify) No logbook maintained
	Effluent Discharge during the inspection (KLD)	
	Effluent Discharge in KL/ MT of product	Can't be calculated
TREATED EFFLUENT RECYCLED		
19.	Flow meter (s) at all recirculation lines installed with totalizer	No, as treated effluent was not being recycled or reused.
20.	Whether Unit has achieved Zero Liquid Discharge?	No
TREATED EFFLUENT DISCHARGED		
21.	i) No. of consented outlets	01
	j) Actual no. of outlets observed during visit	01
	Whether any By-pass / multiple Outlets of Effluent observed	No
	Mode of discharge from the unit premises	Open channel (lined)
	Ultimate disposal point	Industrial Drain (UPSIDC)
	Tracked route to reach river Ganga or its tributary (include name of drains/ intermediate rivers)	Industrial Drain → Kosi Drain → River Yamuna
SOLID WASTE & SLUDGE MANAGEMENT		
22.	Solid waste generated in the unit:	ETP Chemical Sludge
	ETP Sludge Dewatering system	Sludge drying beds
	Total Solid waste generated (in Kg/month)	20-25 kg/month, as informed by unit representative. No logbook was maintained.
	Mode of Hazardous waste disposal	No proof for agreement with TSDF has been provided Also, no Form 10 was provided.
ENVIRONMENTAL LAB		
23.	Availability of Environmental Lab (Also, mention type of instruments available in the lab)	No
	Staff engaged at ETP (along with nos.)	03 person
ELECTRICITY CONSUMPTION IN ETP		
24.	Whether separate energy meter installed for ETP	No
25.	COMPLIANCE STATUS	

As per effluent discharge norms		Complying					
26	Effluent Analysis Report- Quality of discharged effluent (for all parameters as notified for the UNIT under Environment (Protection) Rules, 1986/ required as per Consents)						
Parameter	ETP inlet	ETP outlet	Any other location	Notified discharge standard	Norms as per consent	Compliance w.r.t. consent/notified standard	
pH	7.5	8.20	-	6.5 -8.5	6.5 -8.5	Yes	
BOD (mg/l)	103	27.4	-	30	30	Yes	
COD (mg/l)	352	92	-	250	250	Yes	
TSS (mg/l)	192	84	-	100	100	Yes	
TDS (mg/l)	2596	1903	-	2100	2100	Yes	
Sulphide (mg/l)	-	ND	-	2.0	-	-	
Ammonical Nitrogen (mg/l)	-	2.8	-	50	50	Yes	
Total Chromium (mg/l)	-	ND	-	2	-	-	
Oil and Grease (mg/l)	-	5.2	-	10	10	Yes	

🔍 **Specific Observations:**

- Unit was found operational at the day of visit i.e. 24.01.2024. Unit found engaged in dyeing or washing of jeans and readymade garments with consented capacity of 1500 Nos./day.
- Unit has obtained CCA under Water Act, 1974 and Air Act, 1981 from UPPCB with validity upto 31.12.2024.
- Unit has not obtained Authorization for Hazardous Waste Management from UPPCB and it is also not having agreement for Hazardous waste safe disposal and management with TSDF/ authorized recycler.
- Unit has installed one borewell in its premises without flowmeter. Unit has not obtained NOC from UPGWD for groundwater abstraction.
- Unit has installed ETP of 50 KLD capacity which was found operational on the day of visit, with following treatment scheme as: ETP inlet → screen → equalization tank → reaction tank → tube settler → treated water collection tank (buffer tank) → multigrade filter → activated carbon filter → filtered water collection tank. Inadequate ETP without biological treatment system after primary treatment.
- As per CCA, Unit has to install RO plant for recycling purpose, however, RO plant was not found installed and treated effluent was being discharged directly into nearby drain.
- Flowmeter was not installed at ETP inlet and outlet.
- Analysis results of sample collected from ETP Inlet show pH – 7.5, BOD – 103 mg/l COD – 352 mg/l, TSS-192 mg/l and TDS as 2596 mg/l.
- Analysis results of sample collected from ETP Outlet show pH – 8.2 (against the norm of 6.5 – 8.5); BOD – 27.4 mg/l (against the norms of 30 mg/l); COD – 92 mg/l (against the norms of 250 mg/l); TSS – 84 mg/l (against the norm of 100 mg/l); TDS – 1903 mg/l (against the norm of 2100 mg/l); Sulphide – ND (against norm of 2mg/l), Oil And Grease 5.2 mg/l (against the consented norm of 10 mg/l), Ammonical Nitrogen- 2.8 mg/l (against the consented norm of 50 mg/l) and T.Cr. as ND. These results indicate compliance with the stipulated discharge norms.
- Treated effluent is being discharged into Kosi drain via industrial drain which ultimately confluence with River Yamuna.

11. Unit has not installed OCEMS at ETP Outlet.
12. 400 kg/hr capacity Baby Boiler installed in premises with chimney height of 20ft. The fuel used are biomass and wood.
13. Logbook is not maintained for ETP inlet, outlet, sludge generation and management, groundwater abstraction, daily production and Chemicals use in ETP.

❖ Specific Recommendations/Suggestions:

1. Unit shall obtain valid authorization for hazardous waste disposal and NOC from UPGWD for groundwater abstraction.
2. Unit shall sign an agreement with any TSDF /authorized recycler for safe collection and disposal of hazardous chemical sludge.
3. Unit shall install flowmeters at ETP inlet, ETP outlet, borewell and maintain respective logbooks.
4. As per CCA, Unit was given consent to treat 40 KLD of its domestic sewage through ETP and 2 KLD through septic tank.
5. Also, as per consent conditions, Unit shall install RO Plant for recycle and reuse of treated wastewater received through ETP.

Overall Compliance Status: Complying

Photographs:





Fig 7: DG set



Fig 8: Baby boiler



Fig 9: Biomass fuel for boiler



Fig 10: ETP outlet



Fig 11: Process



Fig 12: Process



Annexure-XII

		<u>INDUSTRY INSPECTION REPORT</u>
General Information & Operational Details		Date of Inspection: 24.01.2024
1.	Name & complete Address:	Shree Balaji Processor, Plot No. F-91, UPSIDC Industrial Area Kosi Kotwan, Extension-, Mathura, Mathura-281401
2.	Geographical Coordinates (Latitude and Longitude) in Decimal	Latitude: 27.812357 Longitude: 77.425214
3.	Name of the: occupier/ contact person(s) with designation: k) Telephone/Mobile(s) l) E-mail ID(s)	Mr. Anil Yadav (Supervisor) Mob.9873171891 Mr. Rajesh Yadav (Supervisor) Mob. 9990400803
4.	Operational Status of the unit	Non-operational (Due to un-availability of raw material, declaration letter was provided.)
5.	Operational Schedule	12 hours/day
6.	Approximate Distance (Km) from River Ganga / or its tributary	40-45 Km's
7.	Manufacturing process flow chart for each product	Not Provided
8.	CGWA NOC status	Validity with date (Valid copy to be attached)
	NOC from CGWA as a permission to abstract groundwater	Applied Application No.21-4/8650/up/IND/2020 (Attached at Annexure-XII(a))
9.	Consent Status	Validity with date (Valid copies to be attached)
	Consent to Operate issued under Water Act, 1974 by SPCB	Validity up to 24.09.2025 (Attached at Annexure-XII(b))
	Consent to Operate issued under Air Act, 1981 by SPCB	
	Authorization for Hazardous Waste Disposal issued under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 by SPCB	Not Provided
10.	<u>Product(s) & Capacity-</u> {For all main product(s) and By- product(s)}	iii. <u>TOTAL Permitted production (As per consent):</u> Raw material: 3.0 metric tonnes/day Semi-finished/Finished product (in TPD): 7500 No's of pieces/day iv. <u>ACTUAL TOTAL production (during the inspection):</u> Semi-finished/ Finished product (in TPD): 500- 600 No's of pieces/day
11.	Type of Industry / Processes involved in operation	Dyeing and washing of grey readymade garments/Jeans

RAW WATER SUPPLY		
12.	Source(s) of raw water supply	Borewell
	In case of Borewell/ Tubewell,	No 01 No. of Borewell found in the unit premises. but no flowmeter was installed at borewell.
EFFLUENT TREATMENT PLANT		Installed (Yes)
13.	Status of ETP	Non-Operational
	Sample collected during inspection	No
	Type of Sampling	NA
	Designed capacity of ETP	30 KLD
	Names of all treatment units	No information was provided
	Dimensions of treatment units	No information was provided
	Processes from where wastewater streams reaching ETP	Dyeing and washing
	Type of treatment process	Physico-chemical followed by tertiary treatment
14.	Name of chemical(s) consumed in ETP and their quantity (in Kg/day)	Lime, Ferrous Sulphate
15.	System of chemical mixing for solution preparation (Manual/ Mixer)	Manual
16.	System of Chemical dosing (Manual/ Mechanical through pumps)	Manual
ETP INLET		
17.	Flow meter with totalizer installed at ETP inlet	No, flow meter was not installed at ETP Inlet.
ETP OUTLET		
18.	Flow meter with totalizer installed at ETP outlet	Yes, flow meter was installed at ETP Outlet but was found non-functional as ETP was non-operational.
TREATED EFFLUENT RECYCLED		
19.	Flow meter (s) at all recirculation lines installed with totalizer	No, treated water is not being recycled within premises of plant.
20.	Whether Unit has achieved Zero Liquid Discharge?	No
TREATED EFFLUENT DISCHARGED		
21.	k) No. of consented outlets	01
	l) Actual no. of outlets observed during visit	01
	Whether any By-pass / multiple Outlets of Effluent observed	No
	Mode of discharge from the unit premises	Surface pipeline
	Ultimate disposal point	Industrial Drain
	Tracked route to reach river Ganga or its tributary (include name of drains/ intermediate rivers)	Industrial Drain → Kosi Drain → River Yamuna
Sewage Management Section – Not installed		
OCEMS - Not installed		

AIR POLLUTION – EMISSION SOURCES & CONTROL							
Sources of air pollution	Chimney Details	APC Equipment's		Emission Quality			
		Stipulated	Provided	Stipulated			
Baby Boiler	NA	NA	NA				
22.	Details of D.G Set		Capacity		Exhaust pipe (in m)	Emission Std.	
	01 No. of DG set		62 kVA		NA	NA	
	Fuel Consumption		Type of fuel		Consumption	Process/ Machine	
			Wood		20-30 Quintal/month		
SOLID WASTE & SLUDGE MANAGEMENT							
23.	Solid waste generated in the unit:		ETP Chemical Sludge				
	ETP Sludge Dewatering system		Sludge drying beds (No details and no logbooks provided by the unit regarding solid waste & sludge management)				
ENVIRONMENTAL LAB							
24.	Availability of Environmental Lab		No				
	Staff engaged at ETP		NA				
ELECTRICITY CONSUMPTION IN ETP							
25.	Whether separate energy meter installed for ETP		No				
	Average Electricity Consumption (based on logbook)		NA				
	Instantaneous energy meter reading during inspection		NA				
COMPLIANCE STATUS							
26.	As per effluent discharge norms		Temporary non-operational				
27.	Effluent Analysis Report- Quality of discharged effluent (for all parameters as notified for the UNIT under Environment (Protection) Rules, 1986/ required as per Consents)						
	Parameter	ETP inlet	ETP outlet	Any other location	Notified discharge standard	Norms as per consent	Compliance w.r.t. consent/notified standard
	pH	-	--	-	6.5 -8.5	6.5 -8.5	-
	BOD (mg/l)	-	-	-	30	30	-
	COD (mg/l)	-	-	-	250	250	-
	TSS (mg/l)	-	-	-	100	100	-
	FDS (inorganic) (mg/l)	-	-	-	-	-	-
	TDS (mg/l)	-	-	-	2100	2100	-
	Sulphide (mg/l)	-	-	-	-	-	-
	Ammonical Nitrogen (mg/l)	-	-	-	50	50	-
	Total Chromium (mg/l)	-	-	-	-	-	-
	Oil and Grease (mg/l)	-	--	-	10	10	

28. **By-pass Analysis Report (s): No**

🔍 **Specific Observations:**

1. Unit was found temporary non- operational on the day of the visit i.e. 24th January, 2023. Undertaking is provided by the unit representative that unit is non-operational since last two days due to no work.
2. As informed, Unit is engaged in Dyeing and washing of grey readymade garments/Jeans of about 500-600 pieces/day against consented capacity 7500 Pieces/day.
3. Unit has obtained CTO under Water Act, 1974 and Air Act, 1981 from UPPCB with validity upto 24.09.2025.
4. Unit has not obtained authorization under the provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules,2016.
5. Unit has not obtained NOC from UPGWD for groundwater abstraction from Borewell. However, It has applied for NOC on 21.02.2020.
6. Unit has installed one borewell in its premises without flowmeter.
7. Unit has installed an ETP of 30 KLD for treatment of effluent generated in textile processes and it was found non-operational. ETP treatment Scheme is as follows: The treatment scheme as: ETP inlet→Bar screen→equalization tank→reaction tank→ tube settler→ activated carbon filter→ sand filter. Inadequate ETP without biological treatment system.
8. Flowmeter was installed at ETP outlet but was found non-functional while no flowmeter was available at ETP inlet.
9. Unit has not installed separate energy meter for ETP unit.
10. Treated effluent is discharged through lined to industrial drain to Kosi drain which finally confluence with River Yamuna.
11. Unit is not having agreement for hazardous waste disposal and management with TSDF.
12. Unit has not installed OCEMS at ETP Outlet.
13. Logbook has been not maintained for ETP inlet, outlet, sludge generation and management, groundwater abstraction, daily production and Chemicals use in ETP.

🔍 **Specific Recommendations/Suggestions:**

1. Unit shall apply for hazardous waste Authorization under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
2. Unit shall install flowmeters at borewell and ETP inlet.
3. Unit shall install OCEMS at ETP outlet.
4. Unit shall obtain agreement with TSDF site for disposal of Hazardous waste.
5. As per textile charter (BMT), unit shall install biological treatment after primary treatment.

6. Unit shall maintain Manufacturing process flow chart for each product, ETP process flowchart, logbook for ETP inlet and outlet, Sludge generation & sludge disposal, groundwater abstraction, chemical consumption and electricity usage.

Overall Compliance Status: Non-operational (temporary)

Photographs



Photograph 1: Production Area



Photograph 2: ETP



Photograph 3: Flowmeter at ETP Outlet

24/01/2024

Shri Balajee F-91 Kashi

Plant is non process (non operational)
since 2 Days - Do to no work

Also ETP is non operational - Rajesh Yadav
(Super wizer)
9990400803

Fig.: Undertaking provided by unit for confirmation of temporary non-operationality of Unit.

		<u>INDUSTRY INSPECTION REPORT</u>
General Information & Operational Details		Date of Inspection 24.01.2024
1.	Name & complete Address:	M/s Arya Industries, F-52, Kosi Kotwan, Extension 1, Kosi Kotwan Industrial area, Kosi Kalan, Mathura
2.	Geographical Coordinates (Latitude and Longitude) in Decimal	N: 27.811 E: 77.425
3.	Name of the: occupier/ contact person(s) with designation: m) Telephone/Mobile(s) n) E-mail ID(s)	No contact person was available
4.	Date/year of commissioning	No information
5.	Operational Status of the unit	Non-operational Unit was locked from outside and no contact person was available. Seems long time non-operational from outside.
❖ Specific Observations:		
<ol style="list-style-type: none"> Unit was found locked from outside and non-operational on the day of visit i.e., 24.01.2024. No contact person was available at the unit and nearby. It seems long time non-operational from outside. 		
❖ Specific Recommendations/Suggestions:		
<ol style="list-style-type: none"> UPPCB may verify the actual operational status of unit through the status of consent to establish or consent to operate issued to the unit. Appropriate action as may deemed fit under E(P) Act, 1986. 		
Overall Compliance Status: Non-operational		

Photographs

		<u>INDUSTRY INSPECTION REPORT</u>
General Information & Operational Details		Date of Inspection: 24.01.2024
6.	Name & complete Address:	M/s Redox Denim Hub, Plot No. F-100, UPSIDC, Kosi Kotwan Extension 1, Mathura
7.	Geographical Coordinates (Latitude and Longitude) in Decimal	N: 27.812255 E: 77.425214
8.	Name of the: occupier/ contact person(s) with designation: o) Telephone/Mobile(s) p) E-mail ID(s)	No contact person was available
9.	Operational Status of the unit	No industry or any other structure was seen. Only empty land was present at the mentioned plot no. F-100.
❖ Specific Observations:		
<ol style="list-style-type: none"> 1. During the inspection of M/s Redox Denim Hub, Plot No. F-100, UPSIDC by joint team on 24.01.2024, no industry was existing at the given address, while only empty land was present at the mentioned plot no. F-100. 2. No contact person was available at the location, adjacent industry was also empty and locked from outside, hence no information can be gathered. 		
❖ Specific Recommendations/Suggestions:		
<ol style="list-style-type: none"> 1. UPPCB may verify the actual operational status of unit through the status of consent to establish or consent to operate issued to the unit. Appropriate action as may deemed fit under E(P) Act, 1986. 		
Overall Compliance Status: No industry or any other structure was seen. Only empty land was present at the mentioned plot no. F-100.		

Photographs

Fig.1: Plot no. F-100

**Annexure-XV**

		<u>INDUSTRY INSPECTION REPORT</u>
General Information & Operational Details		Date of Inspection 24.01.2024
10.	Name & complete Address:	Shreeji Polyfab Pvt. Ltd. Plot No. H-60, Kosi Kotwan Ext-1, UPSIDA, Kosi Distt., Mathura , Uttar Pradesh
11.	Geographical Coordinates (Latitude and Longitude) in Decimal	27.814561 77.414306
12.	Name of the: occupier/ contact person(s) with designation: q) Telephone/Mobile(s) r) E-mail ID(s)	Sh. Rajiv Dua (owner) Ph. NO.- 98997 62298 rajiv.dua@shreejipolyfab.com
13.	Operational Status of the unit	Operational
14.	Operational Schedule	12-24hrs Operation hours per day About 300 Number of Working days per year
15.	CGWA NOC status	Validity with date (Valid copy to be attached)
	NOC from CGWA as a permission to abstract groundwater	Valid till July 2027 (<i>Annexure-XV(a)</i>)
16.	Consent Status	Validity with date (Valid copy to be attached)
	Consent to Operate issued under Water Act, 1974 by SPCB	Expired on 31.12.2023 (<i>Annexure-XV(b)</i>) Applied for renewal of CCA on 30.11.2023. (<i>Annexure-XV(c)</i>)
	Consent to Operate issued under Air Act, 1981 by SPCB	
	Authorization for Hazardous Waste Disposal issued under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 by SPCB	Valid till August 2028 (<i>Annexure-XV(d)</i>)
17.	<u>Product(s) & Capacity-</u> {For all main product(s) and By- product(s)}	v. <u>TOTAL Permitted production (As per consent):</u> Dyeing/bleaching of cotton fabric: 4,000 metres per day Dyeing/bleaching of polyester fabric: 6000 metres per day Other(s): dyeing or bleaching of yarns: 0.5TPD vi. <u>ACTUAL TOTAL production (during the inspection):</u> Raw material (in nos. or weight in TPD): Semi-finished/ Finished product (in TPD): Nearly 10,500 metres per day Other(s):
18.	Type of Industry / Processes involved in operation (such as electroplating/ fabrication of parts/ assembly of parts/ automobile parts/ service station/ etc.)	Dyeing of cotton, polyester fabric and yarn.

RAW WATER SUPPLY		
19.	Source(s) of raw water supply	Tankers and Borewell
	In case of Tankers <u>Logbook maintained:</u> No	No receipt or logbook provided
	In case of Borewell/ Tubewell, <u>Logbook maintained:</u> No	Flow meter with totalizer was found installed at borewell line. 02 Nos. of Borewell(s) found in the unit premises having flow meter with totalizer installed. <u>Type of Flowmeter:</u> 01 electromagnetic (non-working) and 01 mechanical flowmeter (working)
20.		Production process, Washing, etc.
	Average Water Consumption (KLD)	Logbook not maintained
	Water abstracted during the inspection (KLD)	437400 m ³ (As per mechanical flowmeter reading)
EFFLUENT TREATMENT PLANT		Installed (Yes)
21.	Status of ETP	Operational
	Sample collected during inspection	Yes
	Type of Sampling	Grab
	Designed capacity of ETP /PETP (in KLD)	300KLD
	Names of all treatment units (Flowchart to be attached) Also, mention name of operational treatment units	Inlet→Screening unit→ Collection Tank→ Pre-conditioning unit→Bioxic Tank→Biological treatment unit →Membrane Bioreactor→Polisher Sand bed filtration→ Double Stage RO→ Permeate→Treated water for recycle.
	Processes from where wastewater streams reaching ETP	Dyeing
	Type of treatment process	Biological followed by tertiary treatment
ETP INLET		
22.	Flow meter with totalizer installed at ETP inlet <u>Logbook maintained:</u> No	Yes <u>Type of Flowmeter:</u> Electromagnetic Instantaneous flow rate Reading: 19.047 m ³ /hr Totalizer Reading: 665.055 m ³
	ETP OUTLET	
23.	Flow meter with totalizer installed at ETP outlet <u>Logbook maintained:</u> No	Yes <u>Type of Flowmeter:</u> mechanical Totalizer Reading: 44869m ³
	TREATED EFFLUENT RECYCLED	
24.	Flow meter (s) at all recirculation lines installed with totalizer <u>Logbook maintained:</u> No	Yes <u>Type of Flowmeter:</u> mechanical Totalizer Reading: 44869 m ³ (Storage to process)
	25.	Whether Unit has achieved Zero Liquid Discharge? If Yes, confirm ZLD condition with Consent to Operate issued under Water Act, 1974.
26.		TREATED EFFLUENT DISCHARGED

	m) No. of consented outlets	1					
	n) Actual no. of outlets observed during visit	1					
	Whether any By-pass / multiple Outlets of Effluent observed	No					
	Mode of discharge from the unit premises	Open channel					
	Ultimate disposal point	Industrial drain (UPSIDC)					
	Tracked route to reach river Ganga or its tributary (include name of drains/ intermediate rivers)	Industrial Drain→Kosi Drain→River Yamuna					
SOLID WASTE & SLUDGE MANAGEMENT							
	Solid waste generated in the unit:	ETP Chemical Sludge					
	ETP Sludge Dewatering system	Screw Press					
	Whether Logbook for Solid Waste generated maintained?	Logbook not maintained					
27.	Average Quantity of Solid generated (in Kg/day)						
	Mode of Hazardous waste disposal	Through TSDF					
	If Disposal through TSDF site:	As per last form-10 provided, 7020 Kg solid waste handed over to TSDF dated 08.01.2024.					
	Whether Logbook for Solid Waste Disposed maintained?	Not maintained					
ENVIRONMENTAL LAB							
28.	Availability of Environmental Lab	Yes					
	Staff engaged at ETP (along with nos.)	3 nos.					
ELECTRICITY CONSUMPTION IN ETP							
29.	Whether separate energy meter installed for ETP	Yes					
	Average Electricity Consumption (in KWh/day) (based on logbook)	Logbook not maintained					
COMPLIANCE STATUS							
30.	As per effluent discharge norms	Complying					
31.	Effluent Analysis Report- Quality of discharged effluent (for all parameters as notified for the UNIT under Environment (Protection) Rules, 1986/ required as per Consents)						
32.	Parameter	ETP inlet	ETP outlet	Any other location	Notified discharge standard	Norms as per consent	Compliance w.r.t. consent/notified standard
	pH	6.50	7.08	-	6.5 -8.5		Yes
	BOD (mg/l)	85.5	11.2	-	30	30	Yes
	COD (mg/l)	2382	58	-	250	250	Yes
	TSS (mg/l)	164	25	-	100	100	Yes
	TDS (mg/l)	2972	852	-	2100	-	Yes
	Sulphide (mg/l)	-	0.92	-	2.0	-	Yes
Ammonical Nitrogen (mg/l)	-	0.370	-	50	-	Yes	

Total Chromium (mg/l)	-	ND	-	2	-	-
Oil and Grease (mg/l)	-	3.9	-	10	10	Yes

☛ **Specific Observations:**

- Unit was found operational on the day of visit i.e., 24.01.2024. Unit is engaged in dyeing and bleaching of cotton fabric, polyester fabric and yarns, with consented capacity as 4000 Mtr./day, 6000 Mtr./day and 0.5 TPD, respectively.
- Unit has obtained CCA under Water Act, 1974 and Air Act, 1981 from UPPCB with validity upto 31.12.2023. Unit has provided application copy for its renewal dated 30.11.2023.
- As informed by unit representative, daily average production is about 10,500 Mtr/day. However, logbook for daily production is not maintained.
- Unit has obtained authorization issued under the provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 with validity upto 08.08.2028.
- Unit has installed one borewell in its premises with mechanical flowmeter. Logbook was not maintained for groundwater consumption. Unit has obtained valid NOC from UPGWD for groundwater abstraction with validity upto 20.07.2027 with daily abstraction limit of 32 KLD.
- Unit has installed ETP of 300 KLD capacity with treatment scheme as follows:
 - Inlet→Screening Unit→ Collection Tank→ Pre-conditioning unit→Bioxic Tank→Biological treatment unit→Membrane Bioreactor →Polisher Sand bed filtration→ Double Stage RO→ Permeate→Treated water for recycle.
 - RO reject→ Evaporation feed tank→ATFD (Agitated thin film layer)→ Dry salt for disposal.
- Analysis results of sample collected from ETP Inlet show pH – 6.5, BOD – 85.5 mg/l COD – 2382 mg/l, TSS-164 mg/l and TDS as 2972 mg/l.
- Analysis results of sample collected from ETP Outlet show pH – 7.08 (against the norm of 6.5 – 8.5); BOD – 11.2 mg/l (against the norms of 30 mg/l); COD – 58.0 mg/l (against the norms of 250 mg/l); TSS – 25 mg/l (against the norm of 100 mg/l); TDS – 852 mg/l (against the norm of 2100 mg/l); Sulphide – 0.92 mg/l (against norms of 2mg/l), Oil And Grease- 3.9 mg/l (against the consented norm of 10 mg/l), Ammonical Nitrogen- 0.37 mg/l (against the consented norm of 50 mg/l) and T.Cr. as ND. These results indicate compliance with the stipulated discharge norms.

9. Water Audit:

Water consumption	437400 m ³ (totalizer)
ETP Inlet	456.96 KLD (instantaneous)
RO Outlet	156.24 KLD (instantaneous)
treated wastewater storage to process	44869 m ³ (totalizer)
coolant or not contact water storage to process	33924 m ³ (totalizer)

- As per industry personal, daily process effluent is around 300 KLD (consented), out of which 240 KLD is recycled and 60 KLD is discharged. However, no logbook has been maintained, hence actual discharge couldn't be estimated and verified.
- Treated effluent is being discharged into Kosi drain via industrial drain which ultimately confluence with River Yamuna.

- 12. Unit is having agreement of hazardous waste disposal with TSDF. About 7020 Kg sludge has been handed over to TSDF on 08.01.2024 (Form-10 attached).
- 13. Unit has not installed OCEMS at ETP Outlet.
- 14. Logbook were not maintained for ETP inlet, ETP outlet, recycled water, Sludge collection, borewell water abstraction, daily production and Chemicals consumed in ETP.

Specific Recommendations/Suggestions:

- 1. Unit shall expedite renewal of its CTO under Air and Water Act.
- 2. Unit shall maintain logbooks for ETP inlet, ETP outlet, recycled water, Sludge collection, borewell water abstraction, daily production and Chemicals consumed in ETP.
- 3. Unit shall install flowmeter at discharge point.

Overall Compliance Status: Complying

Photographs:

<p>Fig.1: Main Entrance Gate</p> 	<p>Fig.2: ETP inlet</p> 
<p>Fig.3: ETP Inlet flowmeter</p> 	<p>Fig.4: Bioxic Tank</p> 
<p>Fig.5: MBR</p> 	<p>Fig.6: RO</p> 
<p>Fig 7: Recycle tank</p>	<p>Fig 8: Flowmeter at RO outlet</p>



Fig 9: Flowmeter at recycle to process



Fig 10: Flowmeter at not contact water (coolant) to process



Fig 11: Flowmeter at borewell 01



Fig 12: Screw press



Fig 13: Sludge Storage Room



Fig 14: DG



Fig 15: Thermopack boiler



Fig 16: Process



Fig. 17: Process





U.P. POLLUTION CONTROL BOARD

FORM XII

REGIONAL OFFICE, MATHURA

NOTICE OF INTENTION TO HAVE SAMPLE ANALYSED

[See Rule 34]

To,

M/S. Denim Touch.
E-117, Kori Kotwan
Ind. Area, Mathura

Take notice that is intended to have analysed the sample of water/sewage/trade effluent which is being taken.

Today the 23rd day of January

of 24

from (I) Inlet & Outlet
of ETP

<u>Jitendra K</u> NT, 23/1/24	<u>Divya</u> SRF, 23/1/24	<u>Kumar</u> SRF, 23/1/24	<u>Chandra</u> TL, PCB, 23/1/24	<u>R.V. Singh</u> RO, CB, 23/1/24
-------------------------------------	---------------------------------	---------------------------------	---------------------------------------	---

Name & Designation of the Person

Who take the sample

(I) Here specify the stream, well, plant, vessel of the place from where the sample is taken.

To,

M/S. Denim Touch.
E-117, Ind. Area
Kori Kotwan, Mathura

Harish
23/1/24
Hanika Kumari
Patel



U.P. POLLUTION CONTROL BOARD

REGIONAL OFFICE, MATHURA

NOTICE OF INTENTION TO HAVE SAMPLE ANALYSED

[See Rule 34]

To,

M/s Badal Chemicals Ltd.
(old-SPS processors) A-02
UPSIDE, 2nd Area, Kosi Kotwan
Mathura

Take notice that is intended to have analysed the sample of water/sewage/trade effluent which is being taken.

Today the 23rd day of January

of 2024

from (I) Inlet & Outlet
of FTP

(Jitendra K) (Dinayak) (Kusum) (Chandran) (R.V. Singh)
(NT, Cloth) SRF SRF SRF SRF
23/01/24 23/01/24 23/01/24 23/01/24

Name & Designation of the Person

Who take the sample

(I) Here specify the stream, well, plant, vessel of the place from where the sample is taken.

To,

M/s Badal Chemicals Ltd.
(old-SPS processors) A-02
UPSIDE, 2nd Area, Kosi Kotwan
Mathura



Handwritten signature and date: 23/01/2024



U.P. POLLUTION CONTROL BOARD

FORM XII

REGIONAL OFFICE, MATHURA

NOTICE OF INTENTION TO HAVE SAMPLE ANALYSED

[See Rule 34]

To,

M/S Jainco India
D-22, Ind. Area
Kosi Kotwan, Mathura

Take notice that is intended to have analysed the sample of water/sewage/trade effluent which is being taken.

Today the 23rd day of January
of 20 24

from (I) Inlet & Outlet
of ETP.

<u>Kumar</u> <u>23/02/24</u> (Kumar) (SRE)	<u>Dr</u> <u>23/1/2024</u> (Dinya) (SRE)	<u>JNT</u> <u>23/01/2024</u> (Jitendra Kumar) (NT, Chatta)	<u>CL</u> <u>23/1/24</u> (Chandraniraj) (TL, CP&B)	<u>R. Singh</u> <u>23/01/24</u> (R. Singh) (RO, L&D)
Name & Designation of the Person				

Who take the sample

(I) Here specify the stream, well, plant, vessel of the place from where the sample is taken.

To,

M/S Jainco India,
D-22, Ind. Area
Kosi Kotwan Mathura

JAINCO INDIA
[Signature]
Partner



U.P. POLLUTION CONTROL BOARD

REGIONAL OFFICE, MATHURA

NOTICE OF INTENTION TO HAVE SAMPLE ANALYSED

[See Rule 34]

To,

M/s Swarn Tex prints
pvt Ltd D-25, 26
Kosi Kotwan Ind. Area
Mathura

Take notice that is intended to have analysed the sample of water/sewage/trade effluent which is being taken.

Today the 23rd day of January
of 20 24

from (I) Inlet & Outlet
of FTP

<u>23/01/2024</u> (Mr. Jitendra Kumar) Nayab Tehsil dar	<u>23.1.24</u> (Mrs. Divya) SRA	<u>23/01/24</u> (Mr. Kishan) SRA	<u>23.01.24</u> (Mr. Chandanvir) TL	<u>23/01/24</u> (Mr. R.V. Singh) R/O (I)
---	---------------------------------------	--	---	--

Name & Designation of the Person

Who take the sample

(I) Here specify the stream, well, plant, vessel of the place from where the sample is taken.

To,

M/s Swarn Tex prints
pvt. Ltd , D-25, 26
Kosi Kotwan . Ind.
Area Mathura





U.P. POLLUTION CONTROL BOARD

REGIONAL OFFICE, MATHURA

NOTICE OF INTENTION TO HAVE SAMPLE ANALYSED

[See Rule 34]

To,

M/s Balaji Colour Care
E-118, Kosi, Kotwan
Ext-1 Ind. Area
Mathura

Take notice that is intended to have analysed the sample of water/sewage/trade effluent which is being taken.

Today the 23rd day of January
of 2024

from (I) Inlet & outlet
of ETP

<u>(Ditendra K)</u> NT Chata	<u>(Bijay)</u> SRF	<u>(Kusum)</u> SRE	<u>(Chandranir)</u> CL, CPLB	<u>(R. V. Singh)</u> RO (7)
<u>23/1/24</u>	<u>23/1/24</u>	<u>23/1/24</u>	<u>23/1/24</u>	<u>23/1/24</u>

Name & Designation of the Person

Who take the sample

(I) Here specify the stream, well, plant, vessel of the place from where the sample is taken.

To,

M/s. Balaji Colour Care
E-118, Kosi, Kotwan Ex-1
Ind. Area, Mathura

(Signature)
23-1-24





U.P. POLLUTION CONTROL BOARD

REGIONAL OFFICE, MATHURA

NOTICE OF INTENTION TO HAVE SAMPLE ANALYSED

To, *M/S Shreeji Polyfab Pvt. Ltd* [See Rule 34]
H-60, Kosi Katuman Ext-1
Mathura

Take notice that is intended to have analysed the sample of water/sewage/trade effluent which is being taken. *24th* *January*

Today the *24* day of

of 20 *Inlet + Outlet of*
ETP.

from (I)

JNT *24/11/24*
(Jitendra K) (Dunya)
NT SRF
Chandani *24/11/24*
TL (R.V. Singh)
RO (I)

Name & Designation of the Person
 Who take the sample

(I) Here specify the stream, well, plant, vessel of the place from where the sample is taken.

To, *M/S Shreeji Polyfab Pvt. Ltd.*
H-60, Kosi Katuman
Ext-1 and Area
Mathura

For Shreeji Polyfab (P) Ltd.

[Signature]
 Auth. Signatory



U.P. POLLUTION CONTROL BOARD

REGIONAL OFFICE, MATHURA

NOTICE OF INTENTION TO HAVE SAMPLE ANALYSED

[See Rule 34]

To,

M/s Shailendra Dyeing
F-75, Kori Kotwan
Ext-1 Mathura

Take notice that is intended to have analysed the sample of water/sewage/trade effluent which is being taken.

Today the 24th day of January
of 2024

from (I) Inlet + Outlet
of ETP

<i>JNT</i> 24/01/2024 (Jitendra K) NT Chatter	<i>SRF</i> 24/1/24 (Divya) SRF	<i>JNT</i> 24/01/24 (Kusum) SRF	<i>SRF</i> 24/1/24 (Chandrashekhar Singh) T.L.	<i>SRF</i> 24/01/24 (Rishi) RO/TL
--	---	--	---	--

Name & Designation of the Person

Who take the sample

(I) Here specify the stream, well, plant, vessel of the place from where the sample is taken.

To,

M/s Chaitendra Dyeing
F-75, Kori Kotwan
Ext-1 Mathura

For Shailendra Dyeing

[Signature]
Auth. Sign.



U.P. POLLUTION CONTROL BOARD

REGIONAL OFFICE, MATHURA

NOTICE OF INTENTION TO HAVE SAMPLE ANALYSED

[See Rule 34]

To,

M/s R.K. Process
F-88, Ind. Area
Kosi Kotwan Ext-1
Mathura

Take notice that is intended to have analysed the sample of water/sewage/trade effluent which is being taken.

Today the 24th day of January
of 20 24

from (I) Inlet & Outlet
of ETP

(Handwritten signatures and dates)
21/10/24
24/1/24
24/02/24
24/1/24
24/01/24

NT Chata SRF SRF TL
Name & Designation of the Person

Who take the sample

(I) Here specify the stream, well, plant, vessel of the place from where the sample is taken.

To,

M/s R.K. Process
F-88, Ind. Area
Kosi Kotwan, Ext-1
Mathura

24/1/24
24-1-24



U.P. POLLUTION CONTROL BOARD

REGIONAL OFFICE, MATHURA

NOTICE OF INTENTION TO HAVE SAMPLE ANALYSED

[See Rule 34]

To,

M/s Vaishnavi Tex Prints

E-124, Kosi Kotwan.

Ext. 1 Mathura

Take notice that is intended to have analysed the sample of water/sewage/trade effluent which is being taken.

Today the 24 day of January of 2024

from (I) Inlet & Outlet of ETP.

<u>JNT</u> <u>(J. Kancha R)</u> <u>NTM</u>	<u>SRF</u>	<u>SRF</u>	<u>SRF</u>	<u>TL</u>	<u>ROE</u>
<u>24/01/24</u>	<u>24/1/24</u>	<u>Jan 24/01/24</u>	<u>24/1/24</u>	<u>24/1/24</u>	<u>24/01/24</u>

Name & Designation of the Person

Who take the sample

(I) Here specify the stream, well, plant, vessel of the place from where the sample is taken.

To,

M/s Vaishnavi Tex Prints

E-124, Kosi Kotwan

Ext. 1 Mathura

For VAISHNAVI TEX PRINT

[Signature]
Proprietor



153

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24568550/Mathura/2024

Date:12/02/2024

- 1- **Name of Industry:** SVARN TEX PRINTS PRIVATE LIMITED, PLOT NO. E-90 INDUSTRIAL AREA KOSI KOTWAN MATHURA U.P.,MATHURA,281403
- 2- **Address of Industry:** PLOT NO. E-90 INDUSTRIAL AREA KOSI KOTWAN MATHURA U.P.,MATHURA,281403
- 3- **District:** Mathura
- 4- **Description about sampling point:** Inlet of ETP
- 5- **Type of Sample (Grab/Composite/Integrated):** Grab
- 6- **Sample Collected By:** R.V.Singh RO Inc. & Dr.Chandravir,TL CPCB, Divya,SRF,Kusum,SRF,Jitendra Kumar NT Chatta
- 7- **Colour and Odour:** Slightly blue Unpleasant
- 8- **Quantity and Packing:** 02 litre for general parameter
- 9- **Date of Sample Collection:** 23/01/2024
- 10- **Analys Indented by:** RO Mathura
- 11- **Date of sample receipt in Lab:** 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	9.62	-	02-12
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	208.0	-	10-20000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	3894.0	-	10- 50000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	182.0	-	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	1268.0	-	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: NA

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA SINGH
 Digitally signed by SAMRENDRA SINGH
 Date: 2024.02.12 13:50:34 +05'30'

Samrendra Singh (ASO)

RAM GOPAL
 Digitally signed by RAM GOPAL
 Date: 2024.02.12 13:50:56 +05'30'

**Chief Environmental Officer
 Central Laboratory**

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatable solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chlorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH ₃) mg/l,Max	100	-	-	100
11	Free ammonia (as NH ₃)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand [3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



156

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24568564/Mathura/2024

Date:12/02/2024

- 1- Name of Industry: SVARN TEX PRINTS PRIVATE LIMITED, PLOT NO. E-90 INDUSTRIAL AREA KOSI KOTWAN MATHURA U.P.,MATHURA,281403
- 2- Address of Industry: PLOT NO. E-90 INDUSTRIAL AREA KOSI KOTWAN MATHURA U.P.,MATHURA,281403
- 3- District: Mathura
- 4- Description about sampling point: OUTLET OF ETP
- 5- Type of Sample (Grab/Composite/Integrated): Grab
- 6- Sample Collected By: R.V Singh RO Inc. & Dr.Chandravir,TLCPCB,Kusum,SRF,Divya,SRF,Jitendra Kumar NT Chatta
- 7- Colour and Odour: - -
- 8- Quantity and Packing: 02 litre jerican for general Parameter,01 litre for T.Cr,01 litre for ammonia phenolic compound ,01 litre for O&G,300 ml glass bottle for Sulphide
- 9- Date of Sample Collection: 23/01/2024
- 10- Analysis Indented by: RO Mathura
- 11- Date of sample receipt in Lab: 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	8.33	6.5-8.5	02-12
*Oil_Grease	mg/l	-	-	-
*Sulphide, APHA 24th Ed. 4500-SO2-F Iodometric method 2023	mg/l	0.81	2.0	0.1-20
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	94.0	100	10-20000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	2027.0	2100	10- 50000 mg/l
Ammoniacal Nitrogen, APHA 24th Ed. 4500 NH3-F Phenate Method 2023	mg/l	1.1479	50	0.1-50 mg/l
Total Chromium, APHA 24th Ed 3111-B: 2023	mg/l	ND	2.0	0.1-1000mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	28.1	30	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	224.0	250	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested; 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: Sample for Oil & Grease parameter was not collected as per APHA standard method.

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA SINGH Digitally signed by SAMRENDRA SINGH
Date: 2024.02.12 13:58:34 +05'30'
Samrendra Singh (ASO)

RAM Digitally signed
by RAM GOPAL
GOPAL Date: 2024.02.12
13:58:58 +05'30'
Chief Environmental Officer
Central Laboratory

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatable solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chlorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH ₃) mg/l,Max	100	-	-	100
11	Free ammonia (as NH ₃)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand [3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



160

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24585687/Mathura/2024

Date:09/02/2024

- 1- Name of Industry: JAINCO INDIA, PLOT NO-D-22, INDUSTRIAL AREA, KOSI KOTWAN, KOSI KALAN, MATHURA, MATHURA, 281403
- 2- Address of Industry: PLOT NO-D-22, INDUSTRIAL AREA, KOSI KOTWAN, KOSI KALAN, MATHURA, MATHURA, 281403
- 3- District: Mathura
- 4- Description about sampling point: INLET OF ETP
- 5- Type of Sample (Grab/Composite/Integrated): Grab
- 6- Sample Collected By: R.V Singh RO Inc. & Dr.Chandravir, TLCPCB, Kusum, SRF, Divya, SRF, Jitendra Kumar NT Chatta
- 7- Colour and Odour: SL.BLACKISH UNPLESANT
- 8- Quantity and Packing: 02 litre for general parameter
- 9- Date of Sample Collection: 23/01/2024
- 10- Analysis Indented by: RO Mathura
- 11- Date of sample receipt in Lab: 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	6.86	-	02-12
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	98.0	-	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	377.0	-	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested; 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: NA

Analysed by-
[Arti Gupta(SA)]

Authorized by
SAMRENDRA SINGH
 Samrendra Singh (ASO)

Digitally signed by SAMRENDRA SINGH
Date: 2024.02.09 12:45:41
+05'30'

RAM GOPAL
 Chief Environmental Officer
 Central Laboratory

Digitally signed by RAM GOPAL
Date: 2024.02.09 12:45:55 +05'30'

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatable solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chlorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH ₃) mg/l,Max	100	-	-	100
11	Free ammonia (as NH ₃)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand [3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



163

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24585683/Mathura/2024

Date:09/02/2024

- 1- **Name of Industry:** JAINCO INDIA, PLOT NO-D-22, INDUSTRIAL AREA, KOSI KOTWAN, KOSI KALAN, MATHURA.,MATHURA,281403
- 2- **Address of Industry:** PLOT NO-D-22, INDUSTRIAL AREA, KOSI KOTWAN, KOSI KALAN, MATHURA.,MATHURA,281403
- 3- **District:** Mathura
- 4- **Description about sampling point:** OUTLET OF ETP
- 5- **Type of Sample (Grab/Composite/Integrated):** Grab
- 6- **Sample Collected By:** R.V Singh RO Inc. & Dr.Chandravir,TLCPCB,Kusum,SRF,Divya,SRF,Jitendra Kumar NT Chatta
- 7- **Colour and Odour:** - -
- 8- **Quantity and Packing:** 02 litre for general parameter,01 litre for O&G
- 9- **Date of Sample Collection:** 23/01/2024
- 10- **Analysis Indented by:** RO Mathura
- 11- **Date of sample receipt in Lab:** 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	7.42	5.5-9.0	02-12
*Oil_Grease	mg/l	-	-	-
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	24.0	30	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	218.0	250	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: Sample for Oil & Grease parameter was not collected as per APHA standard method.

Analysed by-
[Arti Gupta(SA)]

Authorized by
SAMRENDRA SINGH
 Samrendra Singh (ASO)

Digitally signed by SAMRENDRA SINGH
 Date: 2024.02.09 12:39:57 +05'30'

RAM GOPAL
 Chief Environmental Officer
 Central Laboratory

Digitally signed by RAM GOPAL
 Date: 2024.02.09 12:40:18 +05'30'

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatable solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chlorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH ₃) mg/l,Max	100	-	-	100
11	Free ammonia (as NH ₃)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand [3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



166

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24568598/Mathura/2024

Date:13/02/2024

- Name of Industry:** SPS PROCESSORS PVT LTD, Plot No. A-2, UPSIDC Industrial Area, Village- Kosi Kotwan, MATHURA, 281403
- Address of Industry:** Plot No. A-2, UPSIDC Industrial Area, Village- Kosi Kotwan, MATHURA, 281403
- District:** Mathura
- Description about sampling point:** INLET OF ETP
- Type of Sample (Grab/Composite/Integrated):** Grab
- Sample Collected By:** R.V Singh RO Inc. & Dr.Chandravir, TLCPCB, Kusum, SRF, Divya, SRF, Jitendra Kumar NT Chatta
- Colour and Odour:** blue UNPLESNT
- Quantity and Packing:** 02 litre for general parameter
- Date of Sample Collection:** 23/01/2024
- Analysis Indented by:** RO Mathura
- Date of sample receipt in Lab:** 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	7.53	-	02-12
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	568.0	-	10-20000 mg/l
Chloride, APHA 24th Ed. 4500 Cl-B: 2023	mg/l	1070.0	-	1.0-5000mg/l
Sulphate as SO4-2 , APHA 24th Ed. 4500 -SO4 -2 E Turbidimetric Method 2023	mg/l	1158.0	-	01-1000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	284.0	-	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	2121.0	-	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules, 1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested; 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: NA

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA SINGH
Date: 2024.02.13 13:42:23
Samrendra Singh (ASO)

RAM GOPAL
Chief Environmental Officer
Central Laboratory

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatableaa solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH3) mg/l,Max	100	-	-	100
11	Free ammonia (as NH3)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand 1[3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C6H5OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



TEST REPORT: WASTE WATER LABORATORY

Ref No: 24568584/Mathura/2024

Date:13/02/2024

- 1- **Name of Industry:** SPS PROCESSORS PVT LTD, Plot No. A-2, UPSIDC Industrial Area, Village- Kosi Kotwan, MATHURA, 281403
- 2- **Address of Industry:** Plot No. A-2, UPSIDC Industrial Area, Village- Kosi Kotwan, MATHURA, 281403
- 3- **District:** Mathura
- 4- **Description about sampling point:** OUTLET OF ETP
- 5- **Type of Sample (Grab/Composite/Integrated):** Grab
- 6- **Sample Collected By:** R.V Singh RO Inc. & Dr.Chandravir, TLCPCB, Kusum, SRF, Divya, SRF, Jitendra Kumar NT Chatta
- 7- **Colour and Odour:** - -
- 8- **Quantity and Packing:** 02 litre jericin for general Parameter, 01 litre for T.Cr, 01 litre for ammonia phenolic compound, 01 litre for O&G, 01 litre for hexavalent Cr
- 9- **Date of Sample Collection:** 23/01/2024
- 10- **Analysis Indented by:** RO Mathura
- 11- **Date of sample receipt in Lab:** 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	8.04	6.0-8.5	02-12
*Oil_Grease	mg/l	-	-	-
Suspended Solids, APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	89.0	100	10-20000 mg/l
Chloride, APHA 24th Ed. 4500 Cl-B: 2023	mg/l	168.0	-	1.0-5000mg/l
Sulphate as SO ₄ -2, APHA 24th Ed. 4500 -SO ₄ -2 E Turbidimetric Method 2023	mg/l	38.8	-	01-1000 mg/l
Ammoniacal Nitrogen, APHA 24th Ed. 4500 NH ₃ -F Phenate Method 2023	mg/l	2.2126	50	0.1-50 mg/l
Hexavalent Chromium (Cr +6), APHA 24th Ed. 3500-Cr B Colorimetric Method 2023	mg/l	ND	0.1	0.1-100mg/l
Copper, APHA 24th Ed. 3111-B: 2023	mg/l	ND	3.0	0.01-1000mg/l
Cadmium, APHA 24th Ed 3111- B: 2023	mg/l	ND	2.0	0.01-1000mg/l
Lead, APHA 24th Ed 2024 3111-B: 2023	mg/l	ND	0.1	0.02-1000mg/l
Nickel, APHA 24th Ed. 3111-B: 2023	mg/l	0.0139	3.0	0.02-1000 mg/l
Zinc, APHA 24th Ed. 3111-B: 2023	mg/l	ND	5.0	0.01-1000mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	27.0	30	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	224.0	250	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules, 1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested; 2. The report shall not be reproduced-except in full, without the written permission of laboratory; 3. The test report pertains to the sample as received in Lab.

Remark: Sample for Oil & Grease parameter was not collected as per APHA standard method.

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA
SINGH
Samrendra Singh (ASO)

Digitally signed by SAMRENDRA
SINGH
Date: 2024.02.13 14:21:43 +05'30'

RAM
GOPAL
Chief Environmental Officer
Central Laboratory

Digitally signed
by RAM GOPAL
Date: 2024.02.13
14:21:59 +05'30'

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatableaa solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH ₃) mg/l,Max	100	-	-	100
11	Free ammonia (as NH ₃)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand 1[3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



173

CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD
Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WATER LABORATORY(GROUND WATER)

Ref No: 24589339/CENTRAL/2024

Date:15/02/2024

- 1- **Sample Location:** Bore well sample at SPS PROCESSORS PVT LTD
- 2- **Address:** PLOT NO-A-2, UPSIDC, INDUSTRIAL AREA, KOSI KOTWAN, MATHURA.,MATHURA,281403
- 3- **Distirct:** Mathura
- 4- **Sample Source:** TubeWell
- 5- **Type of sample :** Ground Water
- 6- **Sample Collected By :** R.V Singh ,RO Inc,Dr.Chandravir Jitendra Kumar,NT Chata.Divya SRF,Kusum,SRF
- 7- **Odour :** None
- 8- **Quantity and Packing :** General parameter-2 litre plastic jerican, Heavy Metal-1 litre plastic jerican
- 9- **Date of Sample Collection :** 23/01/2024
- 10- **Analys Indented by :** RO Mathura
- 11- **Date of sample receipt in Lab :** 25/01/2024

Parameter	Unit	Standards Source: IS 10500:2012(2nd Rev.) Required Acceptable Limit	Results	Detection Range
pH, APHA 24th Ed.4500-B: 2023	-	6.5-8.5	7.56	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5.00	5	5-10000 Hazen
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	NS	15	5-10000 mg/l
BOD, IS 3025 (Part 44):1993	mg/l	-	BDL	1-1000 mg/l
COD, APHA 24th Ed. 5220 B: 2023	mg/l	-	BDL	4-1000 mg/l
Chloride, APHA 24th Ed 4500-Cl- B: 2023	mg/l	250	12	3-500 mg/l
Sulphate as SO4-2 , APHA 24th Ed. 4500 -SO4 -2 E Turbidimetric Method 2023	mg/l	200	338.0	0.1 -200 mg/l
Ammoniacal Nitrogen, APHA 24th Ed. 4500 NH3-F Phenate Method 2023	mg/l	0.50	ND	0.1- 50 mg/l
Total Chromium, APHA 24th Ed. 3111-B: 2023	mg/l	0.05	ND	0.05-1000 mg/l
Copper, APHA 24th Ed.3111-B: 2023: 2023	mg/l	0.05	0.0121	0.01-1000 mg/l
Cadmium, APHA 24th Ed.3111-B: 2023	mg/l	0.003	ND	0.01-1000 mg/l
Lead, APHA 24th Ed.3111-B: 2023	mg/l	0.01	ND	0.09-1000 mg/l
Nickel, APHA 24th Ed.3111-B: 2023	mg/l	0.02	0.0298	0.04-1000 mg/l
Zinc, APHA24th Ed.3111-B: 2023	mg/l	5	ND	0.01-1000mg/l
*Manganese Mn, APHA 24th Ed. 3111-B Atomic Absorption Spectrometry 2023	mg/l	0.1	0.2321	0.05-10 mg/l

These standards are subject to revision

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Dr Mamta Pandey(SA), Preeti Shukla(JRF), Ambrish Verma (SA)]

Authorized by
ARUNIMA Digitally signed by ARUNIMA
BAJPAI
BAJPAI Date: 2024.02.15 17:18:46
+05'30'
Dr Arunima Bajpai (ASO)

RAM
GOPAL Digitally signed by RAM GOPAL
Date: 2024.02.15 17:19:00 +05'30'
Chief Environmental Officer
Central Laboratory



175

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24568650/Mathura/2024

Date:13/02/2024

- 1- Name of Industry: DENIM TOUCH, PLOT NO- E-117 KOSI KOTWAN EXTN-1 KOSI KALAN CHHATA, MATHURA, 281403
- 2- Address of Industry: PLOT NO- E-117 KOSI KOTWAN EXTN-1 KOSI KALAN CHHATA, MATHURA, 281403
- 3- District: Mathura
- 4- Description about sampling point: INLET OF ETP
- 5- Type of Sample (Grab/Composite/Integrated): Grab
- 6- Sample Collected By: R.V Singh RO Inc. & Dr.Chandravir, TLCPCB, Kusum, SRF, Divya, SRF, Jitendra Kumar NT Chatta
- 7- Colour and Odour: blue UNPLESNT
- 8- Quantity and Packing: 02 litre for general parameter
- 9- Date of Sample Collection: 23/01/2024
- 10- Analysis Indented by: RO Mathura
- 11- Date of sample receipt in Lab: 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	7.23	-	02-12
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	208.0	-	10-20000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	1275.0	-	10- 50000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	89.0	-	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	268.0	-	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules, 1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: NA

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA SINGH
 Digitally signed by SAMRENDRA SINGH
 Date: 2024.02.13 16:50:11 +05'30'
Samrendra Singh (ASO)

RAM GOPAL
 Digitally signed by RAM GOPAL
 Date: 2024.02.13 16:50:27 +05'30'
Chief Environmental Officer
Central Laboratory

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatableaa solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH3) mg/l,Max	100	-	-	100
11	Free ammonia (as NH3)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand 1[3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C6H5OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.

2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.

3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.

4. Besides these standards, refer EPA standards for specific industry Source (1):

<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>

(2) cpcb.nic.in/Industry_Specific_Standards.php



CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD
 Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24568637/Mathura/2024

Date:13/02/2024

- 1- Name of Industry:** DENIM TOUCH, POLT NO-E-117 KOSI KOTWAN EXTN-1 KOSI KALAN CHHATA, MATHURA, 281403
- 2- Address of Industry:** POLT NO-E-117 KOSI KOTWAN EXTN-1 KOSI KALAN CHHATA, MATHURA, 281403
- 3- District:** Mathura
- 4- Description about sampling point:** OUTLET OF ETP
- 5- Type of Sample (Grab/Composite/Integrated):** Grab
- 6- Sample Collected By:** R.V Singh RO Inc. & Dr.Chandravir, TLCPCB, Kusum, SRF, Divya, SRF, Jitendra Kumar NT Chatta
- 7- Colour and Odour:** - -
- 8- Quantity and Packing:** 02 litre jerican for general Parameter, 01 litre for T.Cr, 01 litre for ammonia phenolic compound, 300 ml glass for sulphide, 01 litre for O&G
- 9- Date of Sample Collection:** 23/01/2024
- 10- Analysis Indented by:** RO Mathura
- 11- Date of sample receipt in Lab:** 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	8.1	6.5-8.5	02-12
*Oil_Grease	mg/l	-	-	-
*Sulphide, APHA 24th Ed. 4500-SO2-F Iodometric method 2023	mg/l	1.2	2.0	0.1-20
Suspended Solids, APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	22.0	100	10-20000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	941.0	2100	10- 50000 mg/l
Ammoniacal Nitrogen, APHA 24th Ed. 4500 NH3-F Phenate Method 2023	mg/l	0.490	50	0.1-50 mg/l
Total Chromium, APHA 24th Ed 3111-B: 2023	mg/l	ND	2.0	0.1-1000mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	12.0	30	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	55.2	250	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules, 1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: Sample for Oil & Grease parameter was not collected as per APHA standard method.

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA
SINGH
Samrendra Singh (ASO)
Digitally signed by
SAMRENDRA SINGH
Date: 2024.02.13 16:53:47
+05'30'

RAM
GOPAL
Chief Environmental Officer
Central Laboratory
Digitally signed
by RAM GOPAL
Date: 2024.02.13
16:54:05 +05'30'

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatable solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chlorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH ₃) mg/l,Max	100	-	-	100
11	Free ammonia (as NH ₃)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand [3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



182

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24568670/Mathura/2024

Date:13/02/2024

- 1- Name of Industry: BALAJI COLOUR CARE, E-118, Kosi kotwan, Ext-1, Kosikalan, Mathura,MATHURA,281403
- 2- Address of Industry: E-118, Kosi kotwan, Ext-1, Kosikalan, Mathura,MATHURA,281403
- 3- District: Mathura
- 4- Description about sampling point: INLET OF ETP
- 5- Type of Sample (Grab/Composite/Integrated): Grab
- 6- Sample Collected By: R.V Singh RO Inc. & Dr.Chandravir,TLCPCB,Kusum,SRF,Divya,SRF,Jitendra Kumar NT Chatta
- 7- Colour and Odour: bluish UNPLESENT
- 8- Quantity and Packing: 02 litre for general parameter
- 9- Date of Sample Collection: 23/01/2024
- 10- Analys Indented by: RO Mathura
- 11- Date of sample receipt in Lab: 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	7.80	-	02-12
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	174.0	-	10-20000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	1848.0	-	10- 50000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	136.0	-	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	278.0	-	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: NA

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA SINGH
 Digitally signed by SAMRENDRA SINGH
 Date: 2024.02.13 13:33:48
Samrendra Singh (ASO)

RAM GOPAL
 Digitally signed by RAM GOPAL
 Date: 2024.02.13 13:34:06 +05'30'
Chief Environmental Officer
Central Laboratory

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatableaa solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH3) mg/l,Max	100	-	-	100
11	Free ammonia (as NH3)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand 1[3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C6H5OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



185

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24568665/Mathura/2024

Date:13/02/2024

- 1- Name of Industry: BALAJI COLOUR CARE, E-118, Kosi kotwan, Ext-1, Kosikalan, Mathura,MATHURA,281403
- 2- Address of Industry: E-118, Kosi kotwan, Ext-1, Kosikalan, Mathura,MATHURA,281403
- 3- District: Mathura
- 4- Description about sampling point: OUTLET OF ETP
- 5- Type of Sample (Grab/Composite/Integrated): Grab
- 6- Sample Collected By: R.V Singh RO Inc. & Dr.Chandravir,TLCPCB,Kusum,SRF,Divya,SRF,Jitendra Kumar NT Chatta
- 7- Colour and Odour: - -
- 8- Quantity and Packing: 02 litre jerican for general parameter,01 litre for ammonia phenolic compound,01 litre for O&G,01 litre for T.Cr,300 ml glass bottle for sulphide
- 9- Date of Sample Collection: 23/01/2024
- 10- Analysis Indented by: RO Mathura
- 11- Date of sample receipt in Lab: 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	8.33	6.5-8.5	02-12
*Oil_Grease	mg/l	-	-	-
*Sulphide, APHA 24th Ed. 4500-SO2-F Iodometric method 2023	mg/l	ND	2.0	0.1-20
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	48.0	100	10-20000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	964.0	2100	10- 50000 mg/l
Ammoniacal Nitrogen, APHA 24th Ed. 4500 NH3-F Phenate Method 2023	mg/l	0.037	50	0.1-50 mg/l
Total Chromium, APHA 24th Ed 3111-B: 2023	mg/l	ND	2.0	0.1-1000mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	26.4	30	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	114.8	250	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: Sample for Oil & Grease parameter was not collected as per APHA standard method.

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA
SINGH
Samrendra Singh (ASO)
Digitally signed by SAMRENDRA
SINGH
Date: 2024.02.13 13:37:15 +05'30'

RAM
GOPAL
Chief Environmental Officer
Central Laboratory
Digitally signed
by RAM GOPAL
Date: 2024.02.13
13:37:32 +05'30'

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatableaa solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH3) mg/l,Max	100	-	-	100
11	Free ammonia (as NH3)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand 1[3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C6H5OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



189

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24585860/Mathura/2024

Date:13/02/2024

- 1- **Name of Industry:** M/S VAISHNAVI TEX PRINT, Plot No E-124, Kosi Kotwan Industrial Area, Extension-1, Kosi Kalan, Distt-Mathura
- 2- **Address of Industry:** Plot No E-124, Kosi Kotwan Industrial Area, Extension-1, Kosi Kalan, Distt-Mathura
- 3- **District:** Mathura
- 4- **Description about sampling point:** INLET OF ETP
- 5- **Type of Sample (Grab/Composite/Integrated):** Grab
- 6- **Sample Collected By:** R.V Singh RO Inc. & Dr.Chandravir,TLCPCB,Kusum,SRF,Divya,SRF,Jitendra Kumar NT Chatta
- 7- **Colour and Odour:** BLACKISH UNPLESANT
- 8- **Quantity and Packing:** 07 litre jerican,300 ml glass bottle
- 9- **Date of Sample Collection:** 24/01/2024
- 10- **Analys Indented by:** RO Mathura
- 11- **Date of sample receipt in Lab:** 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	11.45	-	02-12
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	212.0	-	10-20000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	3736.0	-	10- 50000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	178.0	-	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	627.0	-	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: NA

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA SINGH
 Samrendra Singh (ASO)

Digitally signed by SAMRENDRA SINGH
 Date: 2024.02.13 17:06:45 +05'30'

RAM GOPAL
 Chief Environmental Officer
 Central Laboratory

Digitally signed by RAM GOPAL
 Date: 2024.02.13 17:07:06 +05'30'

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatableaa solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH ₃) mg/l,Max	100	-	-	100
11	Free ammonia (as NH ₃)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand 1[3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



TEST REPORT: WASTE WATER LABORATORY

Ref No: 24585854/Mathura/2024

Date:13/02/2024

- 1- **Name of Industry:** M/S VAISHNAVI TEX PRINT, Plot No E-124, Kosi Kotwan Industrial Area, Extension-1, Kosi Kalan, Distt-Mathura
- 2- **Address of Industry:** Plot No E-124, Kosi Kotwan Industrial Area, Extension-1, Kosi Kalan, Distt-Mathura
- 3- **District:** Mathura
- 4- **Description about sampling point:** OUTLET OF ETP
- 5- **Type of Sample (Grab/Composite/Integrated):** Grab
- 6- **Sample Collected By:** R.V Singh RO Inc. & Dr.Chandravir,TLCPCB,Kusum,SRF,Divya,SRF,Jitendra Kumar NT Chatta
- 7- **Colour and Odour:** - -
- 8- **Quantity and Packing:** 02litre jerican for general parameter,01 litre for ammonia phenolic compound,01 litre for for O&G,01 l for T.Cr,300 ml glass bottle for sulphide
- 9- **Date of Sample Collection:** 24/01/2024
- 10- **Analysis Indented by:** RO Mathura
- 11- **Date of sample receipt in Lab:** 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	8.24	6.5-8.5	02-12
*Oil_Grease	mg/l	-	-	-
*Sulphide, APHA 24th Ed. 4500-SO ₂ -F Iodometric method 2023	mg/l	0.8	2.0	0.1-20
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	25.0	100	10-20000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	637.0	2100	10- 50000 mg/l
Ammoniacal Nitrogen, APHA 24th Ed. 4500 NH ₃ -F Phenate Method 2023	mg/l	0.28	50	0.1-50 mg/l
Total Chromium, APHA 24th Ed 3111-B: 2023	mg/l	ND	2.0	0.1-1000mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	14.0	30	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	74.4	250	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested; 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: Sample for Oil & Grease parameter was not collected as per APHA standard method.

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA
SINGH
Samrendra Singh (ASO)
Digitally signed by SAMRENDRA
SINGH
Date: 2024.02.13 17:09:03 +05'30'

RAM
GOPAL
Chief Environmental Officer
Central Laboratory
Digitally signed
by RAM GOPAL
Date: 2024.02.13
17:09:28 +05'30'

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatableaa solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH ₃) mg/l,Max	100	-	-	100
11	Free ammonia (as NH ₃)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand 1[3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



196

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24585815/Mathura/2024

Date:13/02/2024

- 1- **Name of Industry:** SHAILENDER DYEING, PLOT NO. F-75, UPSIDC INDUSTRIAL AREA, KOSI KOTWAN, EXTENSION-I, MATHURA,MATHURA,281401
- 2- **Address of Industry:** PLOT NO. F-75, UPSIDC INDUSTRIAL AREA, KOSI KOTWAN, EXTENSION-I, MATHURA,MATHURA,281401
- 3- **District:** Mathura
- 4- **Description about sampling point:** INLET OF ETP
- 5- **Type of Sample (Grab/Composite/Integrated):** Grab
- 6- **Sample Collected By:** R.V Singh RO Inc. & Dr.Chandravir,TLCPCB,Kusum,SRF,Divya,SRF,Jitendra Kumar NT Chatta
- 7- **Colour and Odour:** SL. pale UNPLESENT
- 8- **Quantity and Packing:** 02 litre for general parameter
- 9- **Date of Sample Collection:** 24/01/2024
- 10- **Analysis Indented by:** RO Mathura
- 11- **Date of sample receipt in Lab:** 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	10.07	-	02-12
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	92.0	-	10-20000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	3006.0	-	10- 50000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	119.0	-	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	292.0	-	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: NA

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA SINGH
 Samrendra Singh (ASO)

Digitally signed by SAMRENDRA SINGH
 Date: 2024.02.13 13:19:53

RAM GOPAL
 Chief Environmental Officer
 Central Laboratory

Digitally signed by RAM GOPAL
 Date: 2024.02.13 13:20:13 +05:30'

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatableaa solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH3) mg/l,Max	100	-	-	100
11	Free ammonia (as NH3)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand 1[3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C6H5OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



TEST REPORT: WASTE WATER LABORATORY

Ref No: 24585807/Mathura/2024

Date:13/02/2024

1- **Name of Industry:** SHAILENDER DYEING, PLOT NO. F-75, UPSIDC INDUSTRIAL AREA, KOSI KOTWAN, EXTENSION-I, MATHURA,MATHURA,281401

2- **Address of Industry:** PLOT NO. F-75, UPSIDC INDUSTRIAL AREA, KOSI KOTWAN, EXTENSION-I, MATHURA,MATHURA,281401

3- **District:** Mathura

4- **Description about sampling point:** OUTLET OF ETP

5- **Type of Sample (Grab/Composite/Integrated):** Grab

6- **Sample Collected By:** R.V Singh RO Inc. & Dr.Chandravir,TLCPCB,Kusum,SRF,Divya,SRF,Jitendra Kumar NT Chatta

7- **Colour and Odour:** - -

8- **Quantity and Packing:** 02 litre jerican for general parameter,01 litre for ammonia phenolic compound,01 litre for O&G,01 litre for T.Cr,300 ml glass bottle for sulphide

9- **Date of Sample Collection:** 24/01/2024

10- **Analysis Indented by:** RO Mathura

11- **Date of sample receipt in Lab:** 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	8.13	6.5-8.5	02-12
*Oil_Grease	mg/l	-	-	-
*Sulphide, APHA 24th Ed. 4500-SO ₂ -F Iodometric method 2023	mg/l	0.3	2.0	0.1-20
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	32.0	100	10-20000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	1920.0	2100	10- 50000 mg/l
Ammoniacal Nitrogen, APHA 24th Ed. 4500 NH ₃ -F Phenate Method 2023	mg/l	0.437	50	0.1-50 mg/l
Total Chromium, APHA 24th Ed 3111-B: 2023	mg/l	ND	2.0	0.1-1000mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	15.8	30	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	68.0	250	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: Sample for Oil & Grease parameter was not collected as per APHA standard method.

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA Digitally signed by
SINGH SAMRENDRA SINGH
Samrendra Singh (ASO) Date: 2024.02.13 13:26:25
+05'30'

RAM Digitally signed
GOPAL by RAM GOPAL
Chief Environmental Officer Date: 2024.02.13
Central Laboratory 13:26:38 +05'30'

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatableaa solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH ₃) mg/l,Max	100	-	-	100
11	Free ammonia (as NH ₃)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand 1[3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



203

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24585848/Mathura/2024

Date:13/02/2024

- 1- Name of Industry: M/S R. K. PROCESS, F-88, Industrial Area, Kosi Kotwan Extn-1, Distt - Mathura, MATHURA, 281403
- 2- Address of Industry: F-88, Industrial Area, Kosi Kotwan Extn-1, Distt - Mathura, MATHURA, 281403
- 3- District: Mathura
- 4- Description about sampling point: INLET OF ETP
- 5- Type of Sample (Grab/Composite/Integrated): Grab
- 6- Sample Collected By: R. V Singh RO Inc. & Dr. Chandravir, TLCPCB, Kusum, SRF, Divya, SRF, Jitendra Kumar NT Chatta
- 7- Colour and Odour: bluish UNPLESANT
- 8- Quantity and Packing: 02 litre for general parameter
- 9- Date of Sample Collection: 24/01/2024
- 10- Analysis Indented by: RO Mathura
- 11- Date of sample receipt in Lab: 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	7.5	-	02-12
Suspended Solids, APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	192.0	-	10-20000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	2596.0	-	10- 50000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	103.0	-	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	352.0	-	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules, 1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: NA

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA SINGH
Samrendra Singh (ASO)
Digitally signed by SAMRENDRA SINGH
Date: 2024.02.13 17:11:50
+05'30'

RAM GOPAL
Chief Environmental Officer
Central Laboratory
Digitally signed by RAM GOPAL
Date: 2024.02.13
17:12:10 +05'30'

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatable solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chlorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH ₃) mg/l,Max	100	-	-	100
11	Free ammonia (as NH ₃)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand [3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



206

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24585839/Mathura/2024

Date:13/02/2024

- 1- Name of Industry: M/S R. K. PROCESS, F-88, Industrial Area, Kosi Kotwan Extn-1, Distt - Mathura,MATHURA,281403
- 2- Address of Industry: F-88, Industrial Area, Kosi Kotwan Extn-1, Distt - Mathura,MATHURA,281403
- 3- District: Mathura
- 4- Description about sampling point: OUTLET OF ETP
- 5- Type of Sample (Grab/Composite/Integrated): Grab
- 6- Sample Collected By: R.V Singh RO Inc. & Dr.Chandravir,TLCPCB,Kusum,SRF,Divya,SRF,Jitendra Kumar NT Chatta
- 7- Colour and Odour: - -
- 8- Quantity and Packing: 02litre jerican for general parameter,01 litre for ammonia phenolic compound,500 ml glass bottle for O&G,01 litre for T.Cr,300 ml glass bottle for sulphide
- 9- Date of Sample Collection: 24/01/2024
- 10- Analysis Indented by: RO Mathura
- 11- Date of sample receipt in Lab: 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	8.20	6.5-8.5	02-12
*Oil_Grease	mg/l	5.2	10	-
*Sulphide, APHA 24th Ed. 4500-SO2-F Iodometric method 2023	mg/l	ND	2.0	0.1-20
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	84.0	100	10-20000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	1903.0	2100	10- 50000 mg/l
Ammoniacal Nitrogen, APHA 24th Ed. 4500 NH3-F Phenate Method 2023	mg/l	2.8	50	0.1-50 mg/l
Total Chromium, APHA 24th Ed 3111-B: 2023	mg/l	ND	2.0	0.1-1000mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	27.4	30	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	92.0	250	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: NA

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA
SINGH
Samrendra Singh (ASO)
Digitally signed by
SAMRENDRA SINGH
Date: 2024.02.13 17:15:04
+05:30'

RAM
GOPAL
Chief Environmental Officer
Central Laboratory
Digitally signed
by RAM GOPAL
Date: 2024.02.13
17:15:20 +05:30'

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatable solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chlorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH ₃) mg/l,Max	100	-	-	100
11	Free ammonia (as NH ₃)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand [3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



210

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24585726/Mathura/2024

Date:13/02/2024

- 1- **Name of Industry:** SHREEJI POLYFAB PVT LTD, H-61, Kosi Kotwan Extension-I, UPSIDA, Kosi, Distt- Mathura, MATHURA, 281403
- 2- **Address of Industry:** H-61, Kosi Kotwan Extension-I, UPSIDA, Kosi, Distt- Mathura, MATHURA, 281403
- 3- **District:** Mathura
- 4- **Description about sampling point:** INLET OF ETP
- 5- **Type of Sample (Grab/Composite/Integrated):** Grab
- 6- **Sample Collected By:** R.V Singh RO Inc. & Dr.Chandravir, TLCPCB, Divya, SRF, Jitendra Kumar NT Chatta
- 7- **Colour and Odour:** reddish UNPLESANT
- 8- **Quantity and Packing:** 02 litre for general parameter
- 9- **Date of Sample Collection:** 24/01/2024
- 10- **Analys Indented by:** RO Mathura
- 11- **Date of sample receipt in Lab:** 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	6.50	-	02-12
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	164.0	-	10-20000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	2972.0	-	10- 50000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	85.5	-	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	2382.0	-	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules, 1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: NA

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA SINGH
 Samrendra Singh (ASO)

Digitally signed by
 SAMRENDRA SINGH
 Date: 2024.02.13 16:57:34
 +05'30'

RAM
GOPAL
 Chief Environmental Officer
 Central Laboratory

Digitally signed
 by RAM GOPAL
 Date: 2024.02.13
 16:57:49 +05'30'

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatable solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chlorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH ₃) mg/l,Max	100	-	-	100
11	Free ammonia (as NH ₃)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand [3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



213

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 24585712/Mathura/2024

Date:13/02/2024

- 1- **Name of Industry:** SHREEJI POLYFAB PRIVATE LIMITED, H-61, Kosi Kotwan Extension-I, UPSIDA, Kosi, Distt- Mathura, MATHURA,
- 2- **Address of Industry:** H-61, Kosi Kotwan Extension-I, UPSIDA, Kosi, Distt- Mathura, MATHURA,
- 3- **District:** Mathura
- 4- **Description about sampling point:** OUTLET OF ETP
- 5- **Type of Sample (Grab/Composite/Integrated):** Grab
- 6- **Sample Collected By:** R.V Singh RO Inc. & Dr.Chandravir, TLCPCB, Divya, SRF, Jitendra Kumar NT Chatta
- 7- **Colour and Odour:** - -
- 8- **Quantity and Packing:** 02 litre jerican for general Parameter, 01 litre for T.Cr, 01 litre for ammonia phenolic compound, 300 ml glass for sulphide, 500 ml glass bottle for O&G
- 9- **Date of Sample Collection:** 24/01/2024
- 10- **Analysis Indented by:** RO Mathura
- 11- **Date of sample receipt in Lab:** 25/01/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	7.08	6.5-8.5	02-12
*Oil_Grease	mg/l	3.9	10	-
*Sulphide, APHA 24th Ed. 4500-SO2-F Iodometric method 2023	mg/l	0.92	2.0	0.1-20
Suspended Solids, APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	25.0	100	10-20000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	852.0	2100	10- 50000 mg/l
Ammoniacal Nitrogen, APHA 24th Ed. 4500 NH3-F Phenate Method 2023	mg/l	0.370	50	0.1-50 mg/l
Total Chromium, APHA 24th Ed 3111-B: 2023	mg/l	ND	2.0	0.1-1000mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	11.2	30	1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	58.0	250	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules, 1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested; 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: NA

Analysed by-
[Dr Mamta Pandey(SA)]

Authorized by
SAMRENDRA
SINGH
Samrendra Singh (ASO)
Digitally signed by
SAMRENDRA SINGH
Date: 2024.02.13 16:59:45
+05:30'

RAM
GOPAL
Chief Environmental Officer
Central Laboratory
Digitally signed by
RAM GOPAL
Date: 2024.02.13
17:00:04 +05:30'

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatableaa solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH3) mg/l,Max	100	-	-	100
11	Free ammonia (as NH3)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand 1[3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C6H5OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁷ 10 ⁻⁶	10 ⁻⁸ 10 ⁻⁷	10 ⁻⁷ 10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
<https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=>
 (2) cpcb.nic.in/Industry_Specific_Standards.php



217

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-24585878/CENTRAL/2024

Date:16/02/2024

- 1- **Sample Location:** kosi drain U/S Navipur village near Air Liquid India kosi kotwan
- 2- **District:** Mathura
- 3- **Address:** Near kosi
- 4- **Sample Source:** Drain
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** R.V Singh ,RO Inc,Dr.Chandravir Jitendra Kumar,NT Chata.Divya SRF
- 7- **Odour :** None
- 8- **Quantity and Packing :** General Parameters-2 litre plastic jerican, Heavy Metal-1 litre plastic jerican, Ammonia- 1 litre plastic jerican, Sulphide-300 ml glass bottle
- 9- **Date of Sample Collection :** 24/01/2024
- 10- **Analys Indented by :** RO Mathura
- 11- **Date of sample receipt in Lab :** 25/01/2024

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.18	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	40	5-10000 Hazen
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	84.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	982.0	5.0 -10000 mg/l
Chloride, APHA24th Ed 4500-Cl- B: 2023	mg/l	114.0	3.0 - 500 mg/l
Sulphate as SO4-2 , APHA 24th Ed. 4500 -SO4 -2 E Turbidimetric Method 2023	mg/l	26.9	0.1 -200 mg/l
Phosphate, APHA24th Ed.4500-PO4: 2023	mg/l	0.91	0.01-50 mg/l
Nitrate, APHA 24th Ed.4500-NO3 Ultraviolet Spectrophotometric Method: 2023	mg/l	6.1	0.05-100 mg/l
Ammoniacal Nitrogen, APHA 24th Ed. 4500 NH3 -F Phenate Method 2023	mg/l	ND	0.1- 50 mg/l
Total Chromium, APHA24th Ed.3111-B: 2023	mg/l	ND	0.05-1000 mg/l
Cadmium, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Lead, APHA 24th Ed 3111B: 2023	mg/l	ND	0.09-1000 mg/l
Iron, APHA 24th Ed 3111B: 2023	mg/l	0.2985	0.05-1000 mg/l
Nickel, APHA 24th Ed 3111B: 2023	mg/l	ND	0.04-1000 mg/l
Zinc, APHA 24th Ed.3111-B: 2023	mg/l	0.0862	0.01-1000mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	22.0	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	126.0	4.0 -1000 mg/l
FDS, APHA 2540 E. (2-71 to 2-72) 24th Edition. 2023 Ignited at 550 °C	mg/L	398.0	5.0-1000 mg/L
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.1794	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	ND	-

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Dr Mamta Pandey(SA), Poonam
Chowdhary(JRF), Arti Gupta(SA)]

Authorized by
ARUNIMA
BAJPAL
Dr Arunima Bajpai (ASO)

Digitally signed by
ARUNIMA BAJPAL
Date: 2024.02.16 16:11:22
+05'30'

RAM
GOPAL
Chief Environmental Officer
Central Laboratory

Digitally signed by
RAM GOPAL
Date: 2024.02.16
16:11:38 +05'30'

219

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	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 °C 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 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling, Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max. 2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: <http://www.cpcb.nic.in/wqstandards/>



220

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-24589305/CENTRAL/2024

Date:16/02/2024

- 1- **Sample Location:** kosi drain U/S Kosi kotwan ind.area near kotwan village
- 2- **District:** Mathura
- 3- **Address:** Near kosi
- 4- **Sample Source:** Drain
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** R.V Singh ,RO Inc,Dr.Chandravir Jitendra Kumar,NT Chata.Divya SRF
- 7- **Odour :** None
- 8- **Quantity and Packing :** General parameter-2 litre plastic jerican, Heavy Metal-1 litre plastic jerican, Ammonia-1 litre plastic jerican, Sulphide-300 ml Glass bottle
- 9- **Date of Sample Collection :** 24/01/2024
- 10- **Analys Indented by :** RO Mathura
- 11- **Date of sample receipt in Lab :** 25/01/2024

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.20	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	50	5-10000 Hazen
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	126.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	1464.0	5.0 -10000 mg/l
Chloride, APHA24th Ed 4500-Cl- B: 2023	mg/l	304.0	3.0 - 500 mg/l
Sulphate as SO4-2 , APHA 24th Ed. 4500 -SO4 -2 E Turbidimetric Method 2023	mg/l	261.6	0.1 -200 mg/l
Phosphate, APHA24th Ed.4500-PO4: 2023	mg/l	5.7	0.01-50 mg/l
Nitrate, APHA 24th Ed.4500-NO3 Ultraviolet Spectrophotometric Method: 2023	mg/l	38.3	0.05-100 mg/l
Ammoniacal Nitrogen, APHA 24th Ed. 4500 NH3 -F Phenate Method 2023	mg/l	0.056	0.1- 50 mg/l
Total Chromium, APHA24th Ed.3111-B: 2023	mg/l	ND	0.05-1000 mg/l
Cadmium, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Lead, APHA 24th Ed 3111B: 2023	mg/l	ND	0.09-1000 mg/l
Iron, APHA 24th Ed 3111B: 2023	mg/l	2.4976	0.05-1000 mg/l
Nickel, APHA 24th Ed 3111B: 2023	mg/l	ND	0.04-1000 mg/l
Zinc, APHA 24th Ed.3111-B: 2023	mg/l	0.1417	0.01-1000mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	70.0	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	288.0	4.0 -1000 mg/l
FDS, APHA 2540 E. (2-71 to 2-72) 24th Edition. 2023 Ignited at 550 °C	mg/L	592.0	5.0-1000 mg/L
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.2396	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	ND	-

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Dr Mamta Pandey(SA), Poonam Chowdhary(JRF), Arti Gupta(SA)]

Authorized by
ARUNIMA Digitally signed by ARUNIMA BAJPAI
Date: 2024.02.16 16:09:27
+05'30'
BAJPAI
Dr Arunima Bajpai (ASO)

RAM GOPAL Digitally signed by RAM GOPAL
Date: 2024.02.16 16:09:40
+05'30'
**Chief Environmental Officer
Central Laboratory**

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	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 °C 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 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling, Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max. 2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: <http://www.cpcb.nic.in/wqstandards/>



223

CENTRAL LABORATORY

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-24585870/CENTRAL/2024

Date:16/02/2024

- 1- **Sample Location:** kosi drain D/S kosi kotwan ind.area near Pashupati fabric Ltd., NH 19
- 2- **District:** Mathura
- 3- **Address:** Near kosi
- 4- **Sample Source:** Drain
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** R.V Singh ,RO Inc,Dr.Chandravir Jitendra Kumar,NT Chata.Divya SRF
- 7- **Odour :** None
- 8- **Quantity and Packing :** General parameter-2 litre plastic jerican, Heavy Metal-1 litre plastic jerican, Ammonia-1 litre plastic jerican, Sulphide-300 ml Glass bottle
- 9- **Date of Sample Collection :** 24/01/2024
- 10- **Analys Indented by :** RO Mathura
- 11- **Date of sample receipt in Lab :** 25/01/2024

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	8.28	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	50	5-10000 Hazen
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	148	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	1638	5.0 -10000 mg/l
Chloride, APHA24th Ed 4500-Cl- B: 2023	mg/l	52	3.0 - 500 mg/l
Sulphate as SO4-2 , APHA 24th Ed. 4500 -SO4 -2 E Turbidimetric Method 2023	mg/l	682.24	0.1 -200 mg/l
Phosphate, APHA24th Ed.4500-PO4: 2023	mg/l	0.493	0.01-50 mg/l
Nitrate, APHA 24th Ed.4500-NO3 Ultraviolet Spectrophotometric Method: 2023	mg/l	1.678	0.05-100 mg/l
Ammoniacal Nitrogen, APHA 24th Ed. 4500 NH3 -F Phenate Method 2023	mg/l	0.0601	0.1- 50 mg/l
Total Chromium, APHA24th Ed.3111-B: 2023	mg/l	ND	0.05-1000 mg/l
Cadmium, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Lead, APHA 24th Ed 3111B: 2023	mg/l	ND	0.09-1000 mg/l
Iron, APHA 24th Ed 3111B: 2023	mg/l	3.7062	0.05-1000 mg/l
Nickel, APHA 24th Ed 3111B: 2023	mg/l	ND	0.04-1000 mg/l
Zinc, APHA 24th Ed.3111-B: 2023	mg/l	0.0960	0.01-1000mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	78	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	262	4.0 -1000 mg/l
FDS, APHA 2540 E. (2-71 to 2-72) 24th Edition. 2023 Ignited at 550 °C	mg/L	646	5.0-1000 mg/L
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.2246	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	ND	-

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Dr Mamta Pandey(SA), Preeti Shukla(JRF), Ambrish Verma (SA)]

Authorized by
ARUNIMA Digitally signed by
ARUNIMA BAJPAI
Date: 2024.02.16
16:07:16 +05'30'
BAJPAI
Dr Arunima Bajpai (ASO)

RAM Digitally signed by
RAM GOPAL
Date: 2024.02.16
16:07:38 +05'30'
GOPAL
Chief Environmental Officer
Central Laboratory

225

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	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 °C 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 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling, Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max. 2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: <http://www.cpcb.nic.in/wqstandards/>



CENTRAL POLLUTION CONTROL BOARD
केंद्रीय प्रदूषण नियंत्रण बोर्ड
Parivesh Bhawan, East Arjun Nagar, Delhi-110032
परिवेश भवन, पूर्वी अर्जुन नगर, दिल्ली-110032
BIO-SCIENCE LABORATORY/ जैव-विज्ञान प्रयोगशाला



Microbiological Analysis Report/ सूक्ष्म जैविक विश्लेषण रिपोर्ट

- | | | |
|---|---|---------------------------------|
| 1. Report no. & issue date/ रिपोर्ट सं. एवं जारी करने की तिथि | : | Bio/Micro/154, 20.02.2024 |
| 2. Name of the project/ परियोजना का नाम | : | PIAS |
| 3. Sample matrix/ नमूना मैट्रिक्स | : | Waste Water |
| 4. Date & time of sample collection/नमूना संग्रहण करने की तिथि एवं समय | : | 24.01.2024; 02:00 PM – 05:30 PM |
| 5. Samples collected by/ नमूना एकत्रित करने वाले का नाम | : | Dr. Chandravir Narayan and team |
| 6. Date & time of sample receipt/ नमूना प्राप्ति की तिथि एवं समय | : | 25.01.2024; 11:10 AM |
| 7. Date of sample analysis/ नमूना विश्लेषण की तिथि | : | 25.01.2024 |
| 8. Sample registration no. & date/ नमूना पंजीकरण सं. एवं तिथि | : | Bio/153/MB/03/2024, 25.01.2024 |
| 9. Test method reference/ संदर्भित जांच पद्धति | : | APHA 23rd Edition, 2017 |
| 10. Report sent to (Name & Address)/ रिपोर्ट प्रेषित किए जाने वाले का (नाम एवं पता) | : | DH, WQM-II |

S. No क्र.सं.	Sampling location नमूना स्थल	Lab Code लैब कोड	Analysis Results/ विश्लेषण परिणाम				
			Total Coliform MPN/100ml कुल कोलिफॉर्म एमपीएन/100एमएल	Fecal Coliform MPN/100ml फिकल कोलिफॉर्म एमपीएन/100एमएल	Fecal Streptococci MPN/100ml फिकल स्ट्रैप्टोकोकाई एमपीएन/100एमएल	Enterococcus MPN/100ml एन्ट्रोकोकस एमपीएन/100एमएल	E. coli MPN/100ml ई.कोलाई एमपीएन/100एमएल
1.	KDT-1	MB-880	92X10 ⁵	68X10 ³	--	--	--
2.	KUT-1	MB-881	13X10 ³	11X10 ²	--	--	--
3.	KUT-2	MB-882	54X10 ⁸	36X10 ⁶	--	--	--

Statement/ विवरण:

- The results relate only to the samples tested. / परिणाम केवल परीक्षण किए गए नमूनों से संबंधित है।
- The report shall not be reproduced, without the written approval of laboratory. / प्रयोगशाला के लिखित अनुमोदन के बिना रिपोर्ट की प्रतिकृति नहीं की जाएगी।
- <1.8 MPN/100 ml indicates that the probability of presence of coliform in the sample is zero. / <1.8 एमपीएन/100 मिलीलीटर इंगित करता है कि नमूने में कॉलिफॉर्म के होने की संभावना शून्य है।
- The sample will be retained for one week from the date of issue of this test report. / इस रिपोर्ट के जारी होने की तिथि से एक सप्ताह तक नमूनों को संरक्षित रखा जाएगा।

Jaya Sharma
20.2.24
Analyst/ विश्लेषक
(Dr. Jaya Sharma)

24/02/2024
20/02/2024
Supervisor, Reviewer & Authorized Signatory
पर्यवेक्षक, पुनर्विलोकक एवं प्राधिकृत हस्ताक्षरकर्ता
(Dr. Yashpal Yadav)

Z. Changsan
20/02/2024
DH Bio-Science Lab
प्रभाग प्रमुख, जैव प्रयोगशाला
(Dr. Z. Changsan)

Decode:

KDT-1 → Kosi drain d/s Kosi Kotwan Industrial Area
 KUT-1 → Kosi drain u/s Nabipur village/ Kosi Kotwan Industrial Area
 KUT-2 → Kosi drain u/s Kosi Kotwan Industrial Area near Kotwan village

DOC: CB/CL/QR/7.8/BL-1 डीओसी: सीबी/सीएल/क्यूआर/7.8/बीएल-1	Issue No.: 04 जारी सं. 04	Amendment No.: 05 संशोधन सं. 05	Issue Date: 27.03.2014 जारी तिथि 27.03.2014	Amendment Date: 20.05.2022 संशोधन तिथि 20.05.2022	Page 01 of 01 पृष्ठ सं. 01 का 01
--	------------------------------------	--	--	--	---