

622



HIMACHAL PRADESH STATE POLLUTION CONTROL BOARD
 Regional Office, Paonta Sahib, HIMUDA Colony, Shubhkhera
 Teh, Paonta Sahib, District Sirmaur, H.P.
 Email Id: pcbropaonta@gmail.com, Phone: 01704-225870

No PCB/RO (Pt)/Himachal Polyolefins/2024- 3164

Dated: 20.02.2024

To

M/s Himachal Polyolefins Limited
 Village Ogli, Yamuna Nagar Road Kala Amb
 Tehsil Nahan, Distt. Sirmaur, H.P

Subject: Show Cause Notice under Water (Prevention & Control of Pollution) Act, 1974.

This is in reference to the inspection carried out by joint committee in the matter of OA No. 515/2022 of your unit on 19.02.2023.

Whereas, following observations have been made during the inspection of your unit:

1. As per condition of consent granted to you vide application no. 8746732 dated 20.11.2023 valid till 31.03.2026, you are authorized to Recycle treated water. However, it has been observed that, waste water after treatment was being discharged open on the land within the unit premises through a dedicated drain. Photographs are attached herewith.

And whereas, the above mentioned facts tantamount to the violation of provisions contained in section 25 of Water (Prevention & Control of Pollution) Act, 1974 and Consent granted by the State Board there under constituting a cognizable offence.

However, before proceeding against you finally in the matter, you are hereby directed to 1. Establish the reason for above observations. 2. Immediately stop discharging treated water on the land. You are further directed to show cause within 07 days after receipt of this notice as to why waste water was being discharged open on the land without permission, and why legal and penal action against you shall not be taken for the utmost disregard towards environment besides imposing environmental compensation.

Please note that in the event of failure to comply and unsatisfactory deposition, with above directions, action proposed as above shall be initiated as per relevant provisions of law

Treat it as most urgent

Encl: Photographs

7


 Regional Officer

HPSPCB, RO, Paonta Sahib



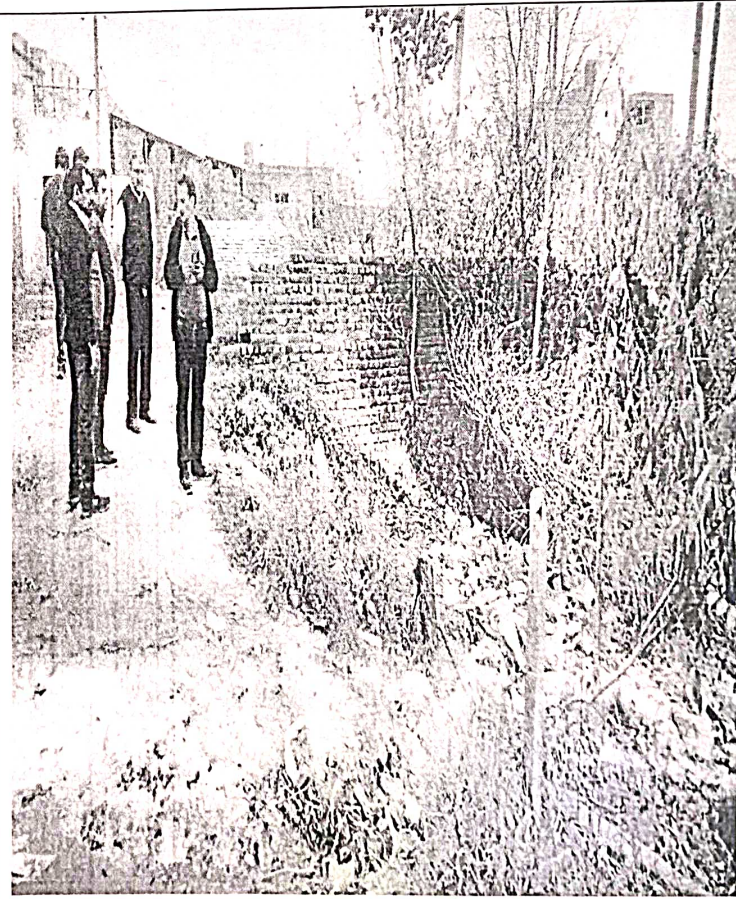
Photograph No. 1



Photograph No. 2



Photograph No. 3



Photograph No. 4

Photograph No. 1 to Photograph No. 4 shows status of discharge on land through dedicated drain.



H.P.STATE POLLUTION CONTROL BOARD
FORM X
REPORT BY STATE BOARD ANALYST
(See Rule 26)

Report No: 12327787/W-12120

23/04/2024

I hereby certify that I **Dr Kuldeep Negi, SO**, State Board Analyst duly appointed under sub-section (3) of section 53 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) received on **18/04/2024** from **Naveen Banyal , JEE**, HP State Pollution Control Board **RO Paonta** a **Grab** sample of **Final Outlet of ETP of Himachal Polyolefins Limited, --- Village Ogli Yamuna Nagar Road Kala Amb--Kala Amb, Nahan Distt. Sirmaur, H.P. 173030** on dated **16/04/2024** for analysis. The sample was in a condition fit for analysis reported below:

I further certify that I have analyzed the aforementioned sample on **18/04/2024** to **23/04/2024** and declare the result of analysis is to be as follows :-

Method of analysis					
IS- 2488(I-V), IS-3025(Part 44): 1933, 'Standard method for examination of water', 23rd edition prepared and published jointly by:-					
1. American Public Health Association 2. American Water Works Association 3. Water Pollution Control Federation					
SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	pH	8.40		5.5-9.0	Within Permissible Limit
2	TSS	21.0	mg/L	100	Within Permissible Limit

The condition of the seals, fastening and container on receipt was as: sealed as **HPPCB**

Signed this on **23/04/2024**

Remarks of Lab Head:



Dr Kuldeep Negi, SO
(State Board Analyst)
RL Paonta

From:

H.P. STATE POLLUTION CONTROL BOARD,
RL Paonta

To:

Himachal Polyolefins Limited
--- Village Ogli Yamuna Nagar Road Kala Amb--Kala Amb, Nahan,
Distt.Sirmaur, H.P.173030



HARYANA STATE POLLUTION CONTROL BOARD
Near the Orion Banquet, Naraingarh Road, Baldev Nagar, Ambala. Email:-
hspcbroamb@gmail.com

No: HSPCB/AMB/2024/INS/62925698SCNCC001

Dated: 22-03-2024

To
NARAINGARH SUGAR MILLS LTD
VPO BANONDI TEHSI NARAINGARH

Sub: Show cause notice for closure 31-A of Air (Prevention & Control of Pollution) Act, 1981/ 33-A of Water (Prevention & Control of Pollution) Act, 1974

Whereas your unit has been inspected on 20-02-2024 regarding by the Joint Committee constituted by Hon'ble NGT in OA no. 515 of 2022 Titled as Dharamvir V/s State of Haryana & Anr. and during the inspection following deficiencies has been observed as per provisions of section 31-A of Air (Prevention & Control of Pollution) Act, 1981/ 33-A of Water (Prevention & Control of Pollution) Act, 1974) :

1. Whereas your unit was found operating and engaged in manufacturing of Sugar by using Sugar cane as raw material with having engaged in processes of crushing, Juice heating, Juice clarification, syrup Sulphotation, Evaporation, crystallization, centrifugation & packing, which are water and air polluting in nature and covered under Red category of consent management of the Board dated 04.12.2020.

Whereas during inspection the Joint Committee has identified the bypass arrangements for disposing of untreated trade effluent generating from Cooling water and from the Process which is leading to a Combined/Common drain starting from inside premises of the unit and carrying untreated effluent (from cooling tower and process discharge) and further leading outside the premises of the unit as a bypass system.

Whereas effluent samples were also collected by the Joint Committee from Untreated Effluent Discharge from Cooling water, Untreated Effluent Discharge from Process, Inlet, outlet & Aeration Tank of ETP & Combined/Common drain carrying untreated effluent (from cooling tower and process discharge) inside factory near residential quarter which is leading outside the premises of the unit.

Whereas As per the analysis report received from Central Pollution Control Board (CPCB), Laboratory at Delhi vide Analysis report no. WATER/2324/WW/00115 dated 05.03.2024 (copy enclosed), the sample of the following points are found exceeding the prescribed limits in the following manner:

1. Mark A "Untreated Effluent Discharge from cooling water (Parameter/Result/Limits: COD/812/250; BOD/191/30; TDS/2504/2100; TSS/212/30)"
2. Mark B "Untreated Effluent Discharge from Process (Parameter/ Result/Limits: pH/3.9/5.5-8.5; COD/934/250; BOD/233/30; TDS/2152/2100; TSS/465/30)"
3. Mark C "Combined drain carrying untreated effluent from cooling tower and process discharge inside factory leading to nearby drain outside (Parameter/ Result/Limits: COD/409/250; BOD/94/30; TSS/107/30)"

Whereas from the above mentioned results it is evident that you are engaged in disposing the untreated trade effluent in violations of section 24 of Water Act, 1974 and standards laid down vide MEOF&CC notification dated 14.01.2016 under EP Rules, 1986 and also in violation of discharge standards imposed in the CTO granted to the unit vide No. HSPCB/Consent/: 313093923AMBCTO39774161 dated 14.08.2023.

Whereas, for the above said violations the unit is liable to be initiated the action of Prosecution and closure under section 43 & 33-A for violation of Section 24 of Water (Prevention & Control of Pollution) Act, 1974 and under section 31-A of Air (Prevention & Control of Pollution) Act, 1981 and also to pay the Environmental Compensation in terms of the directions of Board issued vide policy order No. 2343-2381 dated 22/12/2021 as assessed by the Board as per methodology defined therein.

Whereas u/s 33-A of Water Act, 1974 “notwithstanding anything contained in any other law, but subject to the provisions of this Act, and to any directions that the Central Government may give in this behalf, a Board may, in the exercise of its powers and performance of its functions under this act, issue any directions in writing to any person, officer or authority, and such person, officer or authority shall be bound to comply with such directions.

Explanations for the avoidance of doubts, it is hereby declared that the power to issue directions under this section includes the power to direct:-

The closure, prohibition or regulation of any industry, operation or process or
The stoppage or regulation of supply of electricity, water or any other service”.

This may be treated as most urgent.

Whereas sample of trade effluent was collected on 20-02-2024 and as per analysis report no. 00115 dated 05-03-2024 the following parameters are found exceeding the prescribed limits :

Pollutants	A/R no	Parameters	Results	Limits
Mark C	00115	TSS	107	30
Mark C	00115	BOD	94	30
Mark C	00115	COD	409	250
Mark B	00115	TSS	465	30
Mark B	00115	TDS	2152	2100
Mark B	00115	BOD	233	30
Mark B	00115	COD	934	250

Mark B	00115	pH	3.9	5.5-8.5
Mark A	00115	TSS	212	30
Mark A	00115	TDS	2504	2100
Mark A	00115	BOD	191	30
Mark A	00115	COD	812	250

In view of the above, you are hereby directed to show cause within 15 days as to why closure action against your unit may not be taken under section 31-A of Air (Prevention & Control of Pollution) Act, 1981/ 33-A of Water (Prevention & Control of Pollution) Act, 1974), for non compliance of the above mentioned observations/ deficiencies

In case you fail to comply with the observations/ deficiencies mentioned above within the above mentioned stipulated time period, it will be presumed that you have nothing to say in this regard and accept the status as above, which will warrant action under section / 31-A of Air (Prevention & Control of Pollution) Act, 1981/ 33-A of Water (Prevention & Control of Pollution) Act, 1974

In addition to above it is also intimated that non compliance of direction issued under section / 33-A of Water (Prevention & Control of Pollution) Act, 1974/ 31-A of Air (Prevention & Control of Pollution) Act, 1981 is an offence punishable under respective Acts

**AJAY
SINGH**

Digitally signed
by AJAY SINGH
Date: 2024.03.22
17:34:06 +05'30'

Ajay Singh , Regional Officer

Regional Office Ambala



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CENTRAL POLLUTION CONTROL BOARD केन्द्रीय प्रदूषण नियंत्रण बोर्ड
HEAD OFFICE - DELHI
Parivesh Bhavan, East Arjun Nagar, Delhi - 110032



Water Laboratory (ANALYSIS REPORT) जल प्रयोगशाला (विश्लेषण आख्या)

Waste Water Samples for Physico-Chemical Analysis Report भौतिक-रासायनिक विश्लेषण रिपोर्ट के लिए नमूने

TC-7723

ULR No: TC772324500000115F

Samples Registration No. & Date नमूने की पंजीकरण सं. एवं तिथि : WATER/WW/2324/SR00075, 21/02/2024	Report No. & Date of Issue आख्या सं एवं जारी करने की तिथि : WATER/2324/WW/00115,05/03/2024
Analysis Request Division/Organization विश्लेषण अनुरोध प्रभाग/संगठन : RD Chandigarh	Report sent to (Name, Mobile no. & Address of Indentor) आख्या किसे जारी की गयी (नाम एवं प्रभाग) : DH of RD Chandigarh
Sample Details नमूना विवरण :	Sample Matrix नमूना मैट्रिक्स : Waste Water
Sample Collected by नमूने एकत्रित करने वाले का नाम : Narender Sharma, Amit Kumar Sagar JLA, Shubham OA-S	Date & Time of Sample Receipt नमूने प्राप्ति की तिथि एवं समय : 21/02/2024 15:55 PM
Sampling Plan Preference नमूनाकरण योजना प्राथमिकता :	Sample Analysis Period नमूने के विश्लेषण की अवधि : 21/02/2024 to 05/03/2024
Report Status रिपोर्ट स्थिति : Final	

Sr.No	Date of Sample Collection नमूना संग्रहण की तिथि	Field Code नमूना स्थल	pH	COD	BOD	TSS	TDS	Oil & Grease
1	20/02/2024	NSM-1	7.0	812	191	212	2504	BDL
2	20/02/2024	NSM-2	3.9	934	233	465	2152	BDL
3	20/02/2024	NSM-3	5.9	1418	414	520	1496	BDL
4	20/02/2024	NSM-5	7.8	72	16	14	908	BDL
5	20/02/2024	NSM-6	6.7	409	94	107	1856	BDL

BDL : Below Deduction Limit कटौती सीमा से नीचे

Remarks (if any) :

Note: All the concentrations are expressed in mg/l except pH and Conductivity ($\mu\text{mho/cm}$). नोट : पीएच तथा चालकता ($\mu\text{mho/cm}$) के अतिरिक्त सभी सांद्रता मिग्रा/ली. में व्यक्त की गई हैं।

Analyst

Vinod Kumar , Vijay Laxmi , Nandan Sarkar

Supervisor & Reviewer

Syed M Bilal

Issued By (Lab InCharge)

Dr. K. Ranganathan

Doc: CB/CL/QR/7.4/WWL-1	Issue No.:3	Revision No :3	Issue Date:19/02/2014	Revision Date: 18/09/2020	Page No. : 1/2
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630
CENTRAL POLLUTION CONTROL BOARD केन्द्रीय प्रदूषण नियंत्रण बोर्ड
HEAD OFFICE - DELHI
Parivesh Bhavan, East Arjun Nagar, Delhi - 110032



Water Laboratory (ANALYSIS REPORT) जल प्रयोगशाला (विश्लेषण आख्या)
Waste Water Samples for Physico-Chemical Analysis Report भौतिक-रासायनिक विश्लेषण रिपोर्ट के लिए नमूने
ULR No: TC772324500000115F

TC-7723

Statement कथन :

1. The results relate only to the samples tested. परिणाम केवल जांचे गए नमूनों से संबंधित है।
2. The report shall not be reproduced except in full without written approval of the laboratory पूर्ण रिपोर्ट के अतिरिक्त प्रयोगशाला के लिखित अनुमोदन के बिना आख्या की आंशिक प्रतिकृति नहीं की जायेगी।
3. BDL & Test methods are mentioned on back side of this report. बी डी एल एवं परीक्षण विधि आख्या के अंत में दिए गए हैं।
4. Samples will be retained only for one Week after receipt of Report. संबंधित आख्या जारी होने के बाद नमूने केवल एक सप्ताह तक ही सुरक्षित रखे जाएंगे।

Parameter Name	Test Method	Unit	Limit of Detection	Uncertainty of Measurement
pH	APHA 4500 H+ - B, 23rd Ed.: 2017		2	
COD	APHA 5220 B, 23rd Ed.: 2017	mg/l	5	
BOD	APHA 5210 B, 23rd Ed. 2017, 4500 OC (5 days at 20C). IA - 3025 part 44: 1993 BOD (3 days at 27 C): 2017	mg/l	1	
TSS	APHA 2540 D, 23rd Ed.: 2017	mg/l	10	
TDS	APHA 2540 C, 23rd Ed.: 2017	mg/l	10	
Oil & Grease	APHA 5520 B, 23rd Ed.: 2017	mg/l	5	

Analyst

Vinod Kumar , Vijay Laxmi , Nandan Sarkar

Supervisor & Reviewer

Syed M Bilal

Issued By (Lab InCharge)

Dr. K. Ranganathan

Doc: CB/CL/QR/7.4/WWL-1	Issue No.:3	Revision No :3	Issue Date:19/02/2014	Revision Date: 18/09/2020	Page No. : 2/2
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Time Bound
Urgent Hon'ble NGT Matter

HIMACHAL PRADESH STATE POLLUTION CONTROL BOARD

Regional Office, Paonta Sahib, HIMUDA Colony, Shubhkhera
Teh, Paonta Sahib, District Sirmaur, H.P

Email Id: pcbropaontal@gmail.com, Phone: 01704-225870

No PCB/RO (Pt)/ OA No 515/2022/2023- 3154-58

Dated: 20.02.2024

To
The Superintending Engineer
Jal Shakti Vibhag, Nahan
Distt Sirmaur (HP)

Subject: O.A. No. 5 15/2022 titled as Dharamvir V/s State of Haryana & Ors. pending before Hon'ble NGT.

Sir,

This is in continuation to this office letter no. PCB/RO Paonta/OA No. 515/2022/2023-2048-51, letter no. PCB/RO Paonta/OA No. 515/2022/2023- 2362-65 dated 20.11.2023 and in reference to the meeting held on 18.10.2023 under the Chairmanship of Worthy Deputy Commissioner, Sirmaur in his chamber hall at Nahan, District Sirmaur in matter of O.A. No. 515/2022 titled as Dharamvir V/s State of Haryana & Ors. pending before Hon'ble NGT . Accordingly, following decisions pertaining to your department were taken up during the meeting and same were reviewed in the district level monthly meeting in the month of January, 2024 and February, 2024:

"1. Jal Shakti Vibhag shall complete the restoration work of sewerage pipelines for STP Kala Amb and STP Trilokpur, households connectivity with STP main pipelines and operationalize the STP Trilokpur by first week of March, 2024 ."

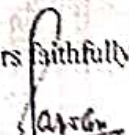
2. Jal Shakti Vibhag shall restore the Real Time Water Quality Monitoring Station and take up matter at higher level for budgetary provisions/requirements.

3. Jal Shakti Vibhag shall restore and operationalize phytoremediation site near M/s Saboo Tor Pvt. Ltd. "

So, you are hereby requested through this letter to submit latest progress report mentioning present status, timeline for completion and reason for delay w.r.t aforementioned directions to this office on or before 23rd February, 2024 so that compiled report can be submitted to Hon'ble NGT on time. It is pertinent to mention that date of hearing is on dated 05.03.2024.

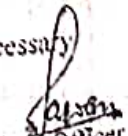
EARLY ACTION IS SOLICITED

Yours faithfully


Regional Officer
HPSPCB, Paonta Sahib

Copy to:

- (1) The Member Secretary , HPSPCB Shimla-09 for information please.
- (2) The Deputy Commissioner, Sirmaur at Nahan for information and further necessary action please,


Regional Officer
HPSPCB, Paonta Sahib

Through Registered Post
REMINDER-I



HP STATE POLLUTION CONTROL BOARD
Regional Office HIMUDA Complex, Plot no. 1,2 & 3, Shubhkhera
www.hppcb.nic.in Pin code 173025 Ph.no/fax 01704-225870

pcbropaonta1@gmail.com

No. PCB/RO Paonta/OA No.515/2022/2023- 2362-65

Dated: 20.11.2023

To:

The Superintending Engineer
Jal Shakti Vibhag Nahan

Subject: O.A. No.515/2022 titled as Dharamvir V/s State of Haryana & Ors. pending before Hon'ble NGT.

Sir,

This is in continuation to this office letter no. PCB/RO Paonta/OA No.515/2022/2023-2048-51, dated 19.10.2023 on the subject matter cited above. In this context, it is re-iterated that a meeting was held on 18.10.2023 under the Chairmanship of Worthy Deputy Commissioner, Sirmaur in his chamber hall at Nahan, District Sirmaur. Accordingly, following decisions pertaining to your department were taken up during the meeting:

"1. Jal Shakti Vibhag shall complete the restoration work of sewerage pipelines for STP Kala Amb and STP Trilokpur, households connectivity with STP main pipelines and operationalize the STP Trilokpur by first week of March, 2024.

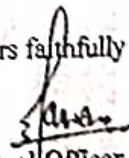
2. Jal Shakti Vibhag shall restore the Real Time Water Quality Monitoring Station and take up matter at higher level for budgetary provisions/requirements

3. Jal Shakti Vibhag shall restore and operationalize phytoremediation site near M/s Saboo Tor Pvt. Ltd."

However, no progress report has been received from you till date. Therefore, you are hereby requested again through this letter to submit progress report w.r.t. aforementioned directions to this office within 15 days positively.

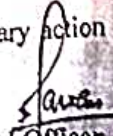
Submitted for information and further necessary action, please.

Yours faithfully


Regional Officer
HPSPCB, RO, Paonta Sahib

Copy forwarded to:

1. The Member Secretary, HPSPCB, Shimla-09 for information please.
2. The Deputy Commissioner, Sirmaur at Nahan for information please.
3. The Executive Engineer, Jal Shakti Vibhag Nahan for information and further necessary action please.


Regional Officer
HPSPCB, RO, Paonta Sahib

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Through Registered Post
REMINDER-I

HP STATE POLLUTION CONTROL BOARD
Regional Office HIMUDA Complex, Plot no. 1,2 & 3, Shubhkhera
www.hppcb.nic.in Pin code 173025 Ph.no/fax 01704-225870
pcbropaonta1@gmail.com

No. PCB/RO Paonta/OA No.515/2022/2023- 2366-71

Dated: 26.11.2023

To

1. The Project Officer
District Rural Development Authority, District Sirmaur H.P.
2. The Member Secretary,
SADA Trilokpur, Nahan, District Sirmaur, H.P.
3. The Block Development Officer
Nahan, District Sirmaur, H.P.

Subject: O.A. No.515/2022 titled as Dharamvir V/s State of Haryana & Ors. pending before Hon'ble NGT.

Sir,

This is in continuation to this office letter no. PCB/RO Paonta/OA No.515/2022/2023-2052-56, dated 19.10.2023 and letter no. PCB/RO Paonta/OA No.515/2022/2023-2140-42, dated 26.10.2023 on the subject matter cited above. In this context, it is re-iterated that a meeting was held on 18.10.2023 under the Chairmanship of Worthy Deputy Commissioner, Sirmaur in his chamber hall at Nahan, District Sirmaur. Accordingly, following decisions pertaining to your department were taken up during the meeting:

"1. Special Area Development Authority (SADA) Trilokpur shall ensure proper collection, segregation and processing of solid waste other than Municipal Council limits at their Solid Waste Processing Facility, Suketi Road, Kala Amb in coordination with BDO Nahan"

2. Jal Shakti Vibhag shall coordinate with BDO Nahan to ensure household connectivity with sewerage pipelines and connectivity of commercial dhabas/butcher shops/dairy shops with STP Kala Amb and STP Trilokpur.

However, no progress report has been received from you till date. Therefore, you are hereby requested again through this letter to submit progress report w.r.t. aforementioned directions to this office within 15 days positively.

Submitted for information and further necessary action, please.

Yours faithfully


Regional Officer
HSPCB, RO, Paonta Sahib

Copy forwarded to:

1. The Member Secretary, HSPCB, Shimla-09 for information please.
2. The Deputy Commissioner, Sirmaur at Nahan for information please.
3. The Executive Engineer, Jal Shakti Vibhag Nahan for information and further necessary action please.


Regional Officer
HSPCB, RO, Paonta Sahib



HP STATE POLLUTION CONTROL BOARD
Regional Office HIMUDA Complex, Plot no. 1,2 & 3, Shubhkhera
www.hppcb.nic.in Pin code 173025 Ph.no/fax 01704-225870
pcbropaonta1@gmail.com

No. PCB/RO Paonta/OA No.515/2022/2023- 2058-56

Dated: 19.10.2023

To:

The Member Secretary,
SADA Trilokpur, Nahan, District Sirmaur, H.P.

The Block Development Officer
Nahan, District Sirmaur, H.P.

Subject: O.A. No.515/2022 titled as Dharamvir V/s State of Haryana & Ors. pending before Hon'ble NGT.

Sir,

Kindly refer to the subject matter cited above. In this context, a meeting was held on 18.10.2023 under the Chairmanship of Worthy Deputy Commissioner, Sirmaur in his chamber hall at Nahan, District Sirmaur. Accordingly, following decisions pertaining to your department were taken up during the meeting:

"1. Special Area Development Authority (SADA) Trilokpur shall ensure proper collection, segregation and processing of solid waste other than Municipal Council limits at their Solid Waste Processing Facility, Suketi Road, Kala Amb in coordination with BDO Nahan"

2. Jal Shakti Vibhag shall coordinate with BDO Nahan to ensure household connectivity with sewerage pipelines and connectivity of commercial dhabas/butcher shops/dairy shops with STP Kala Amb and STP Trilokpur.

Therefore, you are kindly requested to expedite the work w.r.t. above-mentioned points and submit monthly progress report in the District Level meetings of District Level Surveillance Task Force constituted by Hon'ble NGT in O.A. No. 673/2018 (Polluted River Stretches)

Submitted for information and further necessary action, please.

Yours faithfully


Regional Officer
HPSPCB, RO, Paonta Sahib

Copy forwarded to:

1. The Member Secretary, HPSPCB, Shimla-09 for information please.
2. The Deputy Commissioner, Sirmaur at Nahan for information please.
3. The Executive Engineer, Jal Shakti Vibhag Nahan for information and further necessary action please.


Regional Officer
HPSPCB, RO, Paonta Sahib

SPECIAL AREA DEVELOPMENT AUTHORITY TRILOKPUR

No. HIM/SADA/T-18(Vol-III)/2023- 452

Dated 01/03/24

To

✓ The Regional Officer,
HP PCB, Paonta Sahib, Distt. Sirmaur, H.P.

Subject: Current status report in respect of Solid Waste Management Site situated at Ogli, Kala-Amb, Tehsil Nahan, Distt. Sirmaur, HP.

Sir

This is with reference to the subject as cited to above. In this regard, it is submitted that total area under the jurisdiction of the SADA Trilokpur is almost 2596 hectares and presently SADA Trilokpur is collecting the garbage / non-hazardous solid waste i.e. less than 01 ton daily which includes 85-90% rubbish i.e. paper, cardboard, wood, leather, rubber, glass bottles & used clothes etc., 5-7% domestic/kitchen waste, 1% plastic waste , 2-3% Mixed waste i.e. mix of various types of refuse/ mud /garbage etc. along National Highway i.e. starting from Go-sadan Nahan to Kala-Amb and Kala-Amb -Trilokpur HP PWD road having a stretch of 20kms from the Solid Waste disposal/collection Points(s) in Trilokpur Special Area ensuring the scientific disposal of the waste at SWM site.

Further process of development of aforesaid site is in process for providing efficient transportation and scientific handling/disposal of municipal solid waste in Kala-Amb Gram Panchayat upto the Solid Waste Management site by the authority from the designated Secondary collection point's to be established by the Gram Panchayat concern. **despite being the mandate of the Gram Panchayat concern.** Door-to-door collection/segregation of the solid waste and disposal of the same upto secondary collection points in segregated manner is the mandate of the Gram Panchayat/Rural Department and SADA will ensure the transportation of solid waste from the secondary collection points up to Solid Waste management site situated at Ogli and scientific disposal of the same.

At present authority has developed the infrastructure having Electricity connection, shed of size (15m x 6m) alongwith bailing machine room of size (3.00m x 2.60) Honey comb structure of size (9.08 x 2.56) having 5 no. of pits, one room of size (5.00m x 3.50m) & bailing machine are available at the Solid Waste Management site. Site has been channelized and leveled. Also, funds amounting to rupees 25.00 lacs as received under NCAP for purchase Solid waste sorting machine/purchase of double shaft shredder machine i.e. Vacuum Dehydrator Pelisses Machine System and tender is being placed through GEM Portal for purchase of the same.

This is for your kind information, please.

Yours faithfully



Member Secretary,
Special Area Development Authority
Trilokpur. Phone No. 01702-222681

HIMACHAL PRADESH STATE POLLUTION CONTROL BOARD**Regional Office, Paonta Sahib, HIMUDA Colony, Shubhkhera****Teh, Paonta Sahib, District Sirmaur, H.P****Email Id: pcbropaonta1@gmail.com, Phone: 01704-225870**

No PCB/RO (Pt)/ OA No 515/2022/2023- 3154

Dated: 30.02.2024

To

The General Manager
Department of Industries
Sirmaur at Nahan (HP)

Subject: O.A. No. 5 15/2022 titled as Dharamvir V/s State of Haryana & Ors. pending before Hon'ble NGT.

Sir,

This is in continuation to this office letter no. PCB/RO Paonta/OA No. 515/2022/2023-2057-60 dated 19.10.2023, letter no. PCB/RO Paonta/OA No. 515/2022/2023- 2372-75 dated 20.11.2023 and in reference to the meeting held on 18.10.2023 under the Chairmanship of Worthy Deputy Commissioner, Sirmaur in his chamber hall at Nahan, District Sirmaur in matter of O.A. No. 515/2022 titled as Dharamvir V/s State of Haryana & Ors. pending before Hon'ble NGT . Accordingly, following decisions pertaining to your department were taken up during the meeting and same were reviewed in the district level monthly meeting in the month of January, 2024 and February, 2024.

“Department of Industries, Sirmaur shall identify and notify the non-hazardous waste management site for industrial units in Kala Amb area.”

However, no progress report has been received from you till date. Therefore, you are hereby again requested through this letter to submit latest progress report mentioning present status, timeline for completion and reason for delay w.r.t aforementioned directions to this office on or before 23rd February, 2024 so that compiled report can be submitted to Hon'ble NGT on time. It is pertinent to mention that date of hearing is on dated 05.03.2024.

EARLY ACTION IS SOLICITED

Yours faithfully

[Signature]
Regional Officer
HPSPCB, Paonta Sahib

o/c



HP STATE POLLUTION CONTROL BOARD

Regional Office HIMUDA Complex, Plot no. 1,2 & 3, Shubhkhera
www.hppcb.nic.in Pin code 173025 Ph.no/fax 01704-225870
pcbropaonta1@gmail.com

No. PCB/RO Paonta/OA No.515/2022/2023- 2372-75

Dated: 20.11.2023

To:

The General Manager,
 Department of Industries,
 Sirmaur at Nahan., H.P.

Subject: O.A. No. 515/2022 titled as Dharamvir V/s State of Haryana & Ors. pending before Hon'ble NGT.

Sir,

This is in continuation to this office letter no. PCB/RO Paonta/OA No.515/2022/2023-2057-60, dated 19.10.2023 on the subject cited above. As already informed in the aforementioned letter, a meeting was held on 18.10.2023 under the Chairmanship of Worthy Deputy Commissioner, Sirmaur in his chamber hall at Nahan, District Sirmaur. Accordingly, following decisions pertaining to your department were taken up during the meeting:

"Department of Industries, Sirmaur shall identify and notify the non-hazardous waste management site for industrial units in Kala Amb area."

However, no progress report has been received from you till date. Therefore, you are hereby requested again through this letter to submit progress report w.r.t. aforementioned directions to this office within 15 days positively.

Submitted for information and further necessary action please.

Yours faithfully,


 Regional Officer
 HPSPCB, RO, Paonta Sahib

Copy forwarded to:

1. The Member Secretary, HPSPCB, Shimla-09 for information please.
2. The Deputy Commissioner, Sirmaur at Nahan for information please.
3. The Member Secretary, SWCA Kala Amb for information and necessary action please.


 Regional Officer
 HPSPCB, RO, Paonta Sahib

Through Registered Post

HP STATE POLLUTION CONTROL BOARD
 Regional Office HIMUDA Complex, Plot no. 1,2 & 3, Shubhkhera
www.hppcb.nic.in Pin code 173025 Ph.no/fax 01704-225870

pcbropaonta1@gmail.com

No. PCB/RO Paonta/OA No.515/2022/2023- 2057-60

Dated: 19.10.2023

To:

The General Manager,
 Department of Industries,
 Sirmaur at Nahan., H.P.

Subject: O.A. No. 515/2022 titled as Dharamvir V/s State of Haryana & Ors. pending before Hon'ble NGT.

Sir,

Kindly refer to the subject matter cited above. In this context, a meeting was held on 18.10.2023 under the Chairmanship of Worthy Deputy Commissioner, Sirmaur in his chamber hall at Nahan, District Sirmaur. Accordingly, following decisions pertaining to your department were taken up during the meeting:

" Department of Industries, Sirmaur shall identify and notify the non-hazardous waste management site for industrial units in Kala Amb area."

Therefore, you are kindly requested to expedite the work w.r.t. above-mentioned point and submit monthly progress report in the District Level meetings of District Level Surveillance Task Force constituted by Hon'ble NGT in O.A. No. 673/2018 (Polluted River Stretches) Submitted for information and further necessary action please.

Yours faithfully,

Regional Officer
 HPSPCB, RO, Paonta Sahib

Copy forwarded to:

1. The Member Secretary, HPSPCB, Shimla-09 for information please.
2. The Deputy Commissioner, Sirmaur at Nahan for information please.
3. The Member Secretary, SWCA Kala Amb for information and necessary action please.

Regional Officer
 HPSPCB, RO, Paonta Sahib

Annexure-HR9

Monitoring Results of Joint sampling conducted by HSPCB and Irrigation Department of River Markanda (Upstream & downstream) and Jatton wala Nallah from 05.10.2023 to 16.10.2023 in compliance of the direction given by Chairman HSPCB during meeting held on dated 04.10.2023

Date of sampling	Upstream of Markanda River before merging of Jatton wala nallah at Kala Amb								Downstream of Markanda River after Merging of Jatton wala nallah at Kala Amb								Jatton Wala coming from Himachal Pradesh at Kala Amb							
	pH	BOD (Mg/l)	COD (Mg/l)	TSS (Mg/l)	Dissolved Oxygen (Mg/l)	Total Coliform (MPN/100 ml)	Feacal coliform (MPN/100 ml)	Amonical Nitrogen (mg/l)	pH	BOD (Mg/l)	COD (Mg/l)	Total Suspended Solids (Mg/l)	Dissolved Oxygen (Mg/l)	Total Coliform (MPN/100 ml)	Feacal coliform (MPN/100 ml)	Amonical Nitrogen (mg/l)	pH	BOD (Mg/l)	COD (Mg/l)	Total Suspended Solids (Mg/l)	Dissolved Oxygen (Mg/l)	Total Coliform (MPN/100 ml)	Feacal coliform (MPN/100 ml)	Amonical Nitrogen (mg/l)
05.10.2023	7.92	6.8	36	24	7.2	4100	400	BDL (DL=0.5)	7.9	9.6	56	60	6.1	4800	1400	BDL (DL=0.5)	7.28	165	544	168	BDL (DL=01)	22100	4300	3.41
06.10.2023	7.18	5.8	28	27	7.2	3300	1400	BDL (DL=0.5)	7.93	9	52	38	6.2	5800	1100	BDL (DL=0.5)	8.13	110	356	78	BDL (DL=01)	10900	2100	6.27
07.10.2023	7.62	5.8	28	17	7.3	3200	1200	BDL (DL=0.5)	7.7	8	48	116	6.1	4800	1700	BDL (DL=0.5)	7.2	66	268	50	BDL (DL=01)	10900	2100	2.48
08.10.2023	7.39	5.2	24	10	7.5	1000	100	BDL (DL=0.5)	7.9	9	48	21	5.6	4300	800	BDL (DL=0.5)	7.75	72	268	54	BDL (DL=01)	1000	100	2.69
09.10.2023	7.87	3.2	16	7	7.8	2200	600	BDL (DL=0.5)	7.79	9	52	18	6.2	4800	1700	BDL (DL=0.5)	7.12	125	456	86	BDL (DL=01)	22100	4600	3.78
10.10.2023	6.8	4.2	24	9	7.6	2100	800	BDL (DL=0.5)	7.22	10	56	57	6.1	4800	1700	BDL (DL=0.5)	6.75	158	544	172	BDL (DL=01)	27300	4900	4.16
11.10.2023	7.95	5.4	24	11	7.2	1200	100	BDL (DL=0.5)	7.2	8	48	17	6.2	4600	200	BDL (DL=0.5)	7.72	125	416	148	BDL (DL=01)	24000	12000	3.48
12.10.2023	7.63	5.8	28	13	7.1	1500	400	BDL (DL=0.5)	7.68	7.8	40	19	6.1	4100	2200	BDL (DL=0.5)	7.16	120	416	155	BDL (DL=01)	22100	4800	2.24
13.10.2023	7.57	6	20	17	7.3	1700	800	BDL (DL=0.5)	7.76	7.8	68	26	6	5800	1700	BDL (DL=0.5)	7.15	125	408	118	BDL (DL=01)	21200	4100	3.18
14.10.2023	7.58	5.5	28	19	7.2	6300	2100	BDL (DL=0.5)	7.24	7.5	52	23	6.2	8400	2100	BDL (DL=0.5)	7.28	105	392	88	BDL (DL=01)	21200	4100	1.23
16.10.2023	6.85	6.8	28	17	7	5800	1400	BDL (DL=0.5)	7.01	8.5	48	29	6.1	7900	4100	BDL (DL=0.5)	6.8	108	396	76	BDL (DL=01)	17700	4000	2.26



Central Pollution Control Board केंद्रीय प्रदूषण नियंत्रण बोर्ड
Parivesh Bhawan, East Arjun Nagar, Delhi-110 032
परिवेश भवन, ईस्ट अर्जुन नगर, दिल्ली-110 032
Water Laboratory (Freshwater Section) जल प्रयोगशाला (स्वच्छ जल अनुभाग)
Analysis Report विश्लेषण आख्या
NABL Accreditation: ISO/IEC 17025:2017, Certificate No: TC-7723

Source of sample: River/Ground Water/Any other नमूने का स्रोत : नदी/भूजल/अन्य : River
Samples collected by नमूने एकत्रित करने वाले का नाम : Sh. Narender Sharma & Team
Date & time of sample Collection नमूने एकत्रीकरण की तिथि एवं समय : 11/10/2023
Date & time of sample receipt नमूने प्राप्ति की तिथि एवं समय : 12/10/2023
Period of sample analysis नमूने के विश्लेषण की अवधि : 12th to 19th October, 2023
Sample registration no. & date नमूने की पंजीकरण सं. एवं तिथि : Water/FW/2324/SR00048
Test method reference परीक्षण विधि का संदर्भ : APHA/BIS. एपीएचए/बीआईएस
Report sent to (Name & Division) आख्या किसे जारी की गयी (नाम एवं प्रभाग) : I/c R.D. Chandigarh

Report No. आख्या सं FWL/OCT./84/2023
Issue Date जारी करने की तिथि: 23/10/2023

S. No.	Sampling Point नमूना स्थल	FWL Sample No. स्वच्छ जल प्रयोगशाला नमूना सं	pH	Cond.	TDS	COD	BOD	Total Hardness As CaCO3	Ca ⁺⁺	Mg	Cl ⁻	PO ₄ - P	F	NO ₂ -N	NH ₃ -N
1	RMR	2324/Water/FW/L00135	8.4	323	210	BDL	BDL	157	38	15	16	0.09	BDL	0.08	0.71
2	BMR	2324/Water/FW/L00136	8.2	726	422	09	01	191	46	19	78	BDL	BDL	0.06	BDL
3	AMR	2324/Water/FW/L00137	8.2	644	334	10	01	214	42	27	64	BDL	BDL	0.07	BDL
4	UGV	2324/Water/FW/L00138	8.3	624	354	12	03	201	41	24	72	BDL	BDL	0.06	BDL
5	DSG	2324/Water/FW/L00139	8.1	641	408	15	05	257	33	42	72	0.05	BDL	0.06	BDL
6	BGM	2324/Water/FW/L00140	8.2	699	388	16	05	211	35	30	68	BDL	BDL	0.10	BDL
7	MLR	2324/Water/FW/L00141	8.3	628	372	17	06	202	42	24	83	BDL	BDL	0.06	BDL
8	ABG	2324/Water/FW/L00142	8.4	644	418	21	09	199	38	25	77	BDL	BDL	0.07	BDL
9	SGA	2324/Water/FW/L00143	8.4	578	312	06	BDL	180	43	17	64	BDL	BDL	0.06	BDL
10	SDA	2324/Water/FW/L00144	8.3	573	326	08	01	207	42	25	63	BDL	BDL	0.06	BDL
11	PYM	2324/Water/FW/L00145	8.3	597	330	06	BDL	213	54	20	50	BDL	BDL	0.05	BDL

Note: All the concentrations are expressed in mg/l except pH and Conductivity ($\mu\text{mho/cm}$). नोट: पीएच तथा चालकता ($\mu\text{mho/cm}$) के अतिरिक्त सभी सांद्रता मिथा/ली. में व्यक्त की गई है

Statement: कथन:

- The results relate only to the samples tested. परिणाम केवल जांचे गए नमूने से संबंधित हैं।
- The report shall not be reproduced except in full without written approval of the laboratory जांचे के बिना आख्या की आंशिक प्रतिकृति नहीं की जायेगी।
- BDL & Test methods are mentioned on back side of this report. बी डी एल एवं परीक्षण विधि आख्या के अंत में दिए गए हैं।
- Samples will be retained only for one week after receipt of Report. संबंधित आख्या जारी होने के बाद नमूने केवल एक सप्ताह तक ही सुरक्षित रखे जाएंगे।

(P.K. Gupta)
Analyst

(B. Sasi Devi)

Supervisor, Reviewer & Authorised Signatory

(Dr. K. Ranganathan)
DH - Water Lab

Surface Water & Ground Water

S. No.	Parameter	Test Method	Range of Testing/Limit of Detection	Uncertainty of Measurement \pm
1.	Conductivity	APHA 25 10 -B, 24 th Ed. 2023	1 - 30000 μ mhos/cm	280 \pm 10 μ mhos/cm
2	Total Dissolved Solids	APHA 2540 C, 24 th Ed. 2023	5 - 18000 mg/l	350 \pm 20.0 mg/l
3	Chemical Oxygen Demand	APHA 5220 B, 2 24 th Ed. 2023	5 - 200 mg/l	96 \pm 10 mg/l
4	Bio -Chemical Oxygen Demand	APHA 5210 B, 24 th Ed. 2023, 4500 OC, (5 days at 20° C). IS- 3025 part 44:1993. BOD (3 days at 25°C).	1 - 100 mg/l	40 \pm 8 mg/l
5	Chloride	APHA 4500 - Cl B, 24 th Ed. 2023	5 - 600 mg/l	300 \pm 15 mg/l
6	Phosphate - P	APHA 4500 -PD, 24 th Ed. 2023	0.05 - 10 mg/l	0.3 \pm 0.03 mg/l
7	Total Hardness As CaCO ₃	APHA 2340 - C 24 th Ed. 2023	10 - 900 mg/l	150 \pm 10.0 mg/l
8	Calcium	APHA 3500 - Ca B, 23 rd . 2023	2 - 200 mg/l	50 \pm 10 mg/l
9	Magnesium	APHA 3500 - Mg B, 24 th Ed. 2023	2 -200 mg/l	20 \pm 3 mg/l
10	Fluoride	APHA 4500- F D, 24 th Ed. 2023	0.2 - 10 mg/l	0.8 \pm 0.1 mg/l
11	pH	APHA 4500 H ⁺ -B, 24 th Ed. 2023	2 - 14	7.24 \pm 0.18
12	NO ₂ -N	APHA 4500 - NO ₂ , B, 24 th Ed. 2023	0.01 - 2 mg/l	0.06 \pm 0.01 mg/l
13	NH ₃ -N	IS 3025(Part-34)- 1988, (First reprint April-1992)	0.2 - 20 mg/l	2.0 \pm 0.2 mg/l

Surface Water & Ground Water				
S. No.	Parameter	Test Method	Range of Testing/Limit of Detection	Uncertainty of Measurement \pm
1.	Conductivity	APHA 25 10 –B, 24 th Ed. 2023	1 - 30000 μ mhos/cm	280 \pm 10 μ mhos/cm
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4	Bio -Chemical Oxygen Demand	APHA 5210 B, 24 th Ed. 2023, 4500 OC, (5 days at 20° C). IS- 3025 part 44:1993. BOD (3 days at 25°C).	1 - 100 mg/l	40 \pm 8 mg/l
5	Chloride	APHA 4500 - Cl B, 24 th Ed. 2023	5 - 600 mg/l	300 \pm 15 mg/l
6	Phosphate - P	APHA 4500 –PD, 24 th Ed. 2023	0.05 - 10 mg/l	0.3 \pm 0.03 mg/l
7	Total Hardness As CaCO ₃	APHA 2340 – C 24 th Ed. 2023	10 - 900 mg/l	150 \pm 10.0 mg/l
8	Calcium	APHA 3500 – Ca B, 23 rd . 2023	2 - 200 mg/l	50 \pm 10 mg/l
9	Magnesium	APHA 3500 – Mg B, 24 th Ed. 2023	2 -200 mg/l	20 \pm 3 mg/l
10	Fluoride	APHA 4500- F D, 24 th Ed. 2023	0.2 - 10 mg/l	0.8 \pm 0.1 mg/l
11	pH	APHA 4500 H ⁺ -B, 24 th Ed. 2023	2 – 14	7.24 \pm 0.18
12	NO ₂ -N	APHA 4500 – NO ₂ , B, 24 th Ed. 2023	0.01 - 2 mg/l	0.06 \pm 0.01 mg/l
13	NH ₃ -N	IS 3025(Part-34)- 1988, (First reprint April-1992)	0.2 - 20 mg/l	2.0 \pm 0.2 mg/l



Central Pollution Control Board केंद्रीय प्रदूषण नियंत्रण बोर्ड
Parivesh Bhawan, East Arjun Nagar, Delhi-110 032
परिवेश भवन, ईस्ट अर्जुन नगर, दिल्ली-110 032
Water Laboratory (Freshwater Section) जल प्रयोगशाला (स्वच्छ जल अनुभाग)
Analysis Report बिरलेष्ण आख्या
NABL Accreditation: ISO/IEC 17025:2017, Certificate No: TC-7723



Source of sample: River/Ground Water/Any other नमूने का स्रोत : नदी/भूजल/अन्य

River
Sh. Narender Sharma & Team

Report No. आख्या सं FWL/Oct/83/2023
Issue Date जारी करने की तिथि: 23/10/2023

Samples collected by नमूने एकत्रित करने वाले का नाम

Date & time of sample Collection नमूने एकत्रीकरण की तिथि एवं समय

Date & time of sample receipt नमूने प्राप्ति की तिथि एवं समय

Period of sample analysis नमूने के विश्लेषण की अवधि

Sample registration no. & date नमूने की पंजीकरण सं. एवं तिथि

Test method reference परीक्षण विधि का संदर्भ

Report sent to (Name & Division) आख्या किसे जारी की गयी (नाम एवं प्रांगण)

APHA/BIS. रणौरवाट/बीआइएस
I/c R.D. Chandigarh

S. No.	Sampling Point नमूना स्थल	FWL Sample No. स्वच्छ जल प्रयोगशाला नमूना सं	pH	Cond.	TDS	COD	BOD	Total Hardness As CaCO3	Ca ⁺⁺	Mg	Cl ⁻	PO ₄ -P	F	NO ₂ -N	NH ₃ -N
1	UDS	2324/Water/FW/L00125	8.2	448	300	BDL	BDL	192	37	24	19	BDL	BDL	0.02	BDL
2	VUS	2324/Water/FW/L00126	8.1	441	290	BDL	BDL	178	48	14	17	BDL	BDL	0.02	BDL
3	FUS	2324/Water/FW/L00127	8.2	409	264	BDL	BDL	181	42	18	15	BDL	BDL	0.02	BDL
4	FDS	2324/Water/FW/L00128	8.2	409	248	05	BDL	181	48	15	15	BDL	BDL	0.02	BDL
5	KUS	2324/Water/FW/L00129	8.3	372	240	BDL	BDL	206	54	17	13	BDL	BDL	BDL	BDL
6	KDS	2324/Water/FW/L00130	8.4	382	206	BDL	BDL	162	38	16	15	BDL	BDL	BDL	BDL
7	NMR	2324/Water/FW/L00131	8.5	445	248	BDL	BDL	217	43	26	10	16	BDL	0.02	BDL
8	KAB	2324/Water/FW/L00132	8.5	372	204	BDL	BDL	155	46	10	16	BDL	BDL	0.03	0.21
9	DKH	2324/Water/FW/L00133	8.4	371	238	BDL	BDL	156	38	15	18	BDL	BDL	0.03	0.21
10	SCR	2324/Water/FW/L00134	8.1	562	327	15	02	181	34	23	54	BDL	BDL	0.05	0.62

Note: All the concentrations are expressed in mg/l except pH and Conductivity (µmho/cm). नोट : पीएन तथा चालकता (µmho/cm) के अतिरिक्त सभी सांद्रता मिथा/ली. में व्यक्त की गई हैं

Statement: कथन:

- The results relate only to the samples tested. परिणाम केवल जाने गए नमूनों से संबंधित है।
- The report shall not be reproduced except in full without written approval of the laboratory पूर्ण रिपोर्ट के अतिरिक्त प्रयोगशाला के लिखित अनुमोदन के बिना आख्या की आधिकारिक प्रतिकृति नहीं की जायेगी।
- BDL & Test methods are mentioned on back side of this report. बी सी एल एवं परीक्षण विधि आख्या के अंत में दिए गए हैं।
- Samples will be retained only for one week after receipt of Report. संबंधित आख्या जारी होने के बाद नमूने केवल एक सप्ताह तक ही सुरक्षित रखे जाएंगे।

(P.K. Gupta)

Analyst

(B. Sasi Devi)

Supervisor, Reviewer & Authorised Signatory

(Dr. K. Ranganathan)

DH - Water Lab

Surface Water & Ground Water

S. No.	Parameter	Test Method	Range of Testing/Limit of Detection	Uncertainty of Measurement \pm
1.	Conductivity	APHA 25 10 -B, 24 th Ed. 2023	1 - 30000 μ mhos/cm	280 \pm 10 μ mhos/cm
2	Total Dissolved Solids	APHA 2540 C, 24 th Ed. 2023	5 - 18000 mg/l	350 \pm 20.0 mg/l
3	Chemical Oxygen Demand	APHA 5220 B, 2 24 th Ed. 2023	5 - 200 mg/l	96 \pm 10 mg/l
4	Bio -Chemical Oxygen Demand	APHA 5210 B, 24 th Ed. 2023, 4500 OC, (5 days at 20° C). IS- 3025 part 44:1993. BOD (3 days at 25°C).	1 - 100 mg/l	40 \pm 8 mg/l
5	Chloride	APHA 4500 - Cl B, 24 th Ed. 2023	5 - 600 mg/l	300 \pm 15 mg/l
6	Phosphate - P	APHA 4500 -PD, 24 th Ed. 2023	0.05 - 10 mg/l	0.3 \pm 0.03 mg/l
7	Total Hardness As CaCO ₃	APHA 2340 - C 24 th Ed. 2023	10 - 900 mg/l	150 \pm 10.0 mg/l
8	Calcium	APHA 3500 - Ca B, 23 rd . 2023	2 - 200 mg/l	50 \pm 10 mg/l
9	Magnesium	APHA 3500 - Mg B, 24 th Ed. 2023	2 -200 mg/l	20 \pm 3 mg/l
10	Fluoride	APHA 4500- F D, 24 th Ed. 2023	0.2 - 10 mg/l	0.8 \pm 0.1 mg/l
11	pH	APHA 4500 H ⁺ -B, 24 th Ed. 2023	2 - 14	7.24 \pm 0.18
12	NO ₂ -N	APHA 4500 - NO ₂ , B, 24 th Ed. 2023	0.01 - 2 mg/l	0.06 \pm 0.01 mg/l
13	NH ₃ -N	IS 3025(Part-34)- 1988, (First reprint April-1992)	0.2 - 20 mg/l	2.0 \pm 0.2 mg/l



CENTRAL POLLUTION CONTROL BOARD
Parivesh Bhawan, East Block, Connaught Place, New Delhi-110003
INSTRUMENTATION LABORATORY
Metal Analysis Report



1. Place of Analysis : Instrumentation Laboratory
2. Report No. & Issue Date : IL/HM/ICP-MS/1433; 23.10.2023
3. Report sent to (Name, Mobile no. & Address of Indenter) : D.H., RD Chandigarh
4. Test Method Reference : APHA, 3125-B, 23rd Ed. 2017
5. Sample condition (please describe, if not as per procedure) : As per procedure
6. Sample Matrix : Freshwater
7. Date & Time of Sample Collection : 08.10.2023
8. Samples Collected by : Sh. Narender Sharma, Amit Kumar Sagar & Sh. Shubham
9. Date & Time of Sample Receipt : 10.10.2023
10. Sample Registration No. & Date : INSTR/HM/2324/SR00082; 10.10.2023
11. Date of Sample Analysis : 20.10.2023
12. Sampling Plan Reference : NGT Matter

S. No.	Sample Code	As (mg/L)	Cd (mg/L)	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Fe (mg/L)	Mn (mg/L)	Ni (mg/L)	Pb (mg/L)	Zn (mg/L)
1.	VUS	BDL	BDL	BDL	BDL	BDL	0.52	0.03	BDL	BDL	0.02
2.	VDS	BDL	BDL	BDL	BDL	0.66	0.63	0.03	BDL	BDL	0.02
3.	FUS	BDL	BDL	BDL	BDL	BDL	0.85	0.03	BDL	BDL	0.02
4.	FDS	BDL	BDL	BDL	0.01	4.95	0.84	0.03	BDL	BDL	0.03
5.	KUS	BDL	BDL	BDL	0.01	BDL	0.46	0.02	BDL	BDL	0.02
6.	KDS	BDL	BDL	BDL	0.01	BDL	0.41	0.02	BDL	BDL	0.02
7.	NMR	BDL	BDL	BDL	BDL	BDL	0.22	0.01	BDL	BDL	0.03
8.	KAB	BDL	BDL	BDL	BDL	0.02	1.02	0.03	BDL	BDL	0.03
9.	DKH	BDL	BDL	BDL	0.03	BDL	1.23	0.10	0.01	BDL	0.05
10.	SCR	BDL	BDL	BDL	0.05	0.04	4.12	0.17	0.02	BDL	0.08

BDL: Below Detection Limit

Detection Limit - (µg/L):- As-0.49, Cd-0.42, Co-0.35, Cr-0.56, Cu-0.35, Fe-0.67, Mn-0.43, Ni-0.54, Pb-0.31 & Zn-0.59.

- Statement:**
1. The Results related only to the samples tested as received.
 2. The report shall not be reproduced except in full, without the written approval of the Laboratory.
 3. The parameter is under the scope of NABL accreditation, ISO-17025:2017 (Certificate No.TC-7723).
 4. Samples will be retained for 30 days from the date of issue of Test Report.

Nishant Kumar
23.10.2023
Dr. N. K. SHARMA
Analyst

[Signature]
23.10.2023
B. K. JENA
Supervisor & Reviewer

[Signature]
23/10/2023
D H Instrumentation Lab



CENTRAL POLLUTION CONTROL BOARD
Parivesh Bhawan, East Block, Connaught Place, New Delhi-110032
INSTRUMENTATION LABORATORY
Metal Analysis Report



TC-7723

- | | |
|---|--|
| 1. Place of Analysis | : Instrumentation Laboratory |
| 2. Report No. & Issue Date | : IL/HM/ICP-MS/1434; 23.10.2023 |
| 3. Report sent to
(Name, Mobile no. & Address of Indenter) | : D.H., RD Chandigarh |
| 4. Test Method Reference | : APHA, 3125-B, 23rd Ed. 2017 |
| 5. Sample condition
(please describe, if not as per procedure) | : As per procedure |
| 6. Sample Matrix | : Freshwater |
| 7. Date & Time of Sample Collection | : 11.10.2023 |
| 8. Samples Collected by | : Sh. Narender Sharma, Amit Kumar Sagar &
Sh. Shubham |
| 9. Date & Time of Sample Receipt | : 12.10.2023 |
| 10. Sample Registration No. & Date | : INSTR/HM/2324/SR00084; 12.10.2023 |
| 11. Date of Sample Analysis | : 20.10.2023 |
| 12. Sampling Plan Reference | : NGT Matter |

S. No.	Sample Code	As (mg/L)	Cd (mg/L)	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Fe (mg/L)	Mn (mg/L)	Ni (mg/L)	Pb (mg/L)	Zn (mg/L)
1.	RMR	BDL	BDL	BDL	0.01	0.02	3.18	0.08	BDL	BDL	0.05
2.	BMR	BDL	BDL	BDL	0.04	0.02	3.62	0.14	0.01	BDL	0.03
3.	AMR	BDL	BDL	BDL	0.04	0.02	4.86	0.17	0.02	BDL	0.03
4.	UGV	BDL	BDL	BDL	0.03	BDL	2.34	0.11	BDL	BDL	0.02
5.	DSG	BDL	BDL	BDL	0.02	0.01	2.37	0.10	BDL	BDL	0.03
6.	BGM	BDL	BDL	BDL	0.01	BDL	1.19	0.14	BDL	BDL	0.02
7.	MLR	BDL	BDL	BDL	BDL	BDL	0.79	0.06	BDL	BDL	0.02
8.	ABG	BDL	BDL	BDL	0.02	BDL	2.09	0.07	BDL	BDL	0.02
9.	SGA	BDL	BDL	BDL	0.02	BDL	3.46	0.06	0.01	BDL	0.02
10.	SDA	BDL	BDL	BDL	0.03	0.01	13.92	0.28	0.02	BDL	0.06
11.	PYM	BDL	BDL	BDL	0.02	BDL	3.73	0.11	0.01	BDL	0.03

BDL: Below Detection Limit

Detection Limit - (µg/L):- As-0.49, Cd-0.42, Co-0.35, Cr-0.56, Cu-0.35, Fe-0.67, Mn-0.43, Ni-0.54, Pb-0.31 & Zn-0.59.

Statement:

- The Results related only to the samples tested as received.
- The report shall not be reproduced except in full, without the written approval of the Laboratory.
- The parameter is under the scope of NABL accreditation, ISO-17025:2017 (Certificate No.TC-7723).
- Samples will be retained for 30 days from the date of issue of Test Report.

Nishant Kumar
23.10.2023
Dr. N. K. SHARMA
Analyst

B. K. Jena
23.10.2023
B. K. JENA
Supervisor & Reviewer

D H Instrumentation Lab
23/10/2023
D H Instrumentation Lab

220



ADMS) 27/10/23 647 PALSU Key 01/11/23

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

- 5627/D.S
27.10.23
- Report no. & issue date/ रिपोर्ट सं. एवं जारी करने की तिथि : Bio/Micro/94, 27.10.2023
 - Name of the project/ परियोजना का नाम : Hon'ble NGT matter
 - Sample matrix/ नमूना मैट्रिक्स : Fresh Water
 - Date & time of sample collection/ नमूना संग्रहण करने की तिथि एवं समय : 08.10.2023; 09:35 AM – 05:54 PM
 - Samples collected by/ नमूना एकत्रित करने वाले का नाम : Mr. Narendra Sharma and team
 - Date & time of sample receipt/ नमूना प्राप्ति की तिथि एवं समय : 10.10.2023; 02:00 PM
 - Date of sample analysis/ नमूना विश्लेषण की तिथि : 10.10.2023
 - Sample registration no. & date/ नमूना पंजीकरण सं. एवं तिथि : Bio/81/MB/12/2023, 10.10.2023
 - Test method reference/ संदर्भित जांच पद्धति : APHA 24th Edition, 2023
 - Report sent to (Name & Address)/ रिपोर्ट प्रेषित किए जाने वाले का (नाम एवं पता) : RD, Chandigarh



S. No क्र.सं.	Sampling location नमूना स्थल	Lab Code लैब कोड	Analysis Results/ विश्लेषण परिणाम			
			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.	VUS	MB-485	70X10 ²	--	--	--
2.	VDS	MB-486	63X10 ²	--	--	--
3.	FUS	MB-487	79X10 ²	--	--	--
4.	FDS	MB-488	14X10 ²	--	--	--
5.	KUS	MB-489	45	--	--	--
6.	KDS	MB-490	79X10 ²	--	--	--
7.	NMR	MB-491	680	--	--	--
8.	KAB	MB-492	33X10 ²	--	--	--
9.	SCR	MB-493	13X10 ³	--	--	--
10.	DKH	MB-494	13X10 ³	--	--	--

Statement/ विवरण:

- The results relate only to the samples tested. / परिणाम केवल परीक्षण किए गए नमूनों से संबंधित हैं।
- 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 कोलिफॉर्म 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।

Dr. Annu Goel
27/10/23
Analyst/ विश्लेषक
(Dr. Annu Goel)
(Dr. Arpna Sabharwal)

Dr. Yashpal Yadav
27/10/2023
Supervisor, Reviewer & Authorized Signatory
पर्यवेक्षक, पुनर्विलोकक एवं प्राधिकृत हस्ताक्षरकर्ता
(Dr. Yashpal Yadav)

Dr. Z. Changsan
27/10/2023
DH Bio-Science Lab
प्रभाग प्रमुख, जैव प्रयोगशाला
(Dr. Z. Changsan)

DOC: CB/CL/QR/7.8/BL-1 डॉ.ओ.सी. 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
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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/94, 27.10.2023
2. Name of the project/ परियोजना का नाम : Hon'ble NGT matter
3. Sample matrix/ नमूना मैट्रिक्स : FreshWater
4. Date & time of sample collection/ नमूना संग्रहण करने की तिथि एवं समय : 08.10.2023; 09:35 AM – 05:54 PM
5. Samples collected by/ नमूना एकत्रित करने वाले का नाम : Mr. Narendra Sharma and team
6. Date & time of sample receipt/नमूना प्राप्ति की तिथि एवं समय : 10.10.2023; 02:00 PM
7. Date of sample analysis/ नमूना विश्लेषण की तिथि : 10.10.2023
8. Sample registration no. & date/ नमूना पंजीकरण सं. एवं तिथि : Bio/81/MB/12/2023, 10.10.2023
9. Test method reference/ संदर्भित जांच पद्धति : APHA 24th Edition, 2023
10. Report sent to (Name & Address)/ रिपोर्ट प्रेषित किए जाने वाले का (नाम एवं पता) : RD, Chandigarh

S. No क्र.सं.	Sampling location नमूना स्थल	Lab Code लैब कोड	Analysis Results
			Total Coliform MPN/100ml कुल कोलिफॉर्म एमपीएन/100एमएल
1.	VUS	MB-485	35X10 ³
2.	VDS	MB-486	94X10 ²
3.	FUS	MB-487	22X10 ³
4.	FDS	MB-488	49X10 ²
5.	KUS	MB-489	230
6.	KDS	MB-490	22X10 ³
7.	NMR	MB-491	31X10 ²
8.	KAB	MB-492	17X10 ³
9.	SCR	MB-493	24X10 ³
10.	DKH	MB-494	17X10 ³

Statement/ विवरण:

1. The results relate only to the samples tested. / परिणाम केवल परीक्षण किए गए नमूनों से संबंधित हैं।
2. The report shall not be reproduced, without the written approval of laboratory. / प्रयोगशाला के लिखित अनुमोदन के बिना रिपोर्ट की प्रतिकृति नहीं की जाएगी।
3. <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 कोलिफॉर्म के होने की संभावना शून्य है।
4. 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।

Dr. Annu Sabharwal
27.10.23
Analyst/विश्लेषक
(Dr. Annu Goel)
(Dr. Aprna Sabharwal)

यशपाल यादव
27/10/2023
Supervisor, Reviewer & Authorized Signatory
पर्यवेक्षक, पुनर्विलोकक/22 प्राधिकृत हस्ताक्षरकर्ता
(Dr. Yashpal Yadav)

डॉ. जे. चंगसान
27/10/2023
DH Bio-Science lab
प्रभाग प्रमुख, जैव प्रयोगशाला
(Dr. Z. Changsan)



AD(WS) 2/11/2023

649

PA(Sk) 2/11/23

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

5628/DS
27.10.23

- Report no. & issue date/ रिपोर्ट सं. एवं जारी करने की तिथि : Bio/Micro/95, 26.10.2023
- Name of the project/ परियोजना का नाम : Hon'ble NGT matter
- Sample matrix/ नमूना मैट्रिक्स : Fresh Water
- Date & time of sample collection/ नमूना संग्रहण करने की तिथि एवं समय : 11.10.2023; 11:23 AM - 06:41 PM
- Samples collected by/ नमूना एकत्रित करने वाले का नाम : Mr. Narendra Sharma and team
- Date & time of sample receipt/ नमूना प्राप्ति की तिथि एवं समय : 12.10.2023; 12:20 PM
- Date of sample analysis/ नमूना विश्लेषण की तिथि : 12.10.2023
- Sample registration no. & date/ नमूना पंजीकरण सं. एवं तिथि : Bio/82/MB/11/2023, 12.10.2023
- Test method reference/ संदर्भित जांच पद्धति : APHA 24th Edition, 2023
- Report sent to (Name & Address)/ रिपोर्ट प्रेषित किए जाने वाले का (नाम एवं पता) : RD Chandigarh



S. No क्र.सं.	Sampling location नमूना स्थल	Lab Code लैब कोड	Analysis Results/ विश्लेषण परिणाम			
			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.	RMR	MB-497	17X10 ²	--	--	--
2.	BMR	MB-498	21X10 ²	--	--	--
3.	AMR	MB-499	22X10 ³	--	--	--
4.	UGV	MB-500	11X10 ²	--	--	--
5.	DSG	MB-501	11X10 ²	--	--	--
6.	BGM	MB-502	310	--	--	--
7.	MLR	MB-503	170	--	--	--
8.	ABG	MB-504	17X10 ²	--	--	--
9.	SGA	MB-505	450	--	--	--
10.	SDA	MB-506	17X10 ²	--	--	--
11.	PYM	MB-507	54X10 ³	--	--	--

Statement/ विवरण:

- The results relate only to the samples tested. / परिणाम केवल परीक्षण किए गए नमूनों से संबंधित हैं।
- 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 कोलिफॉर्म 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।

Dr. Annu Sabharwal
26.10.23
Analyst/ विश्लेषक
(Dr. Annu Goel)
(Dr. Aprna Sabharwal)

यशपाल यादव
26/10/2023
Supervisor, Reviewer & Authorized Signatory
पर्यवेक्षक, पुनर्विलोकक एवं प्राधिकृत हस्ताक्षरकर्ता
(Dr. Yashpal Yadav)

जेड चांगसान
26/10/2023
DH Bio-Science Lab
प्रभाग प्रमुख, जैव प्रयोगशाला
(Dr. Z. Changsan)

DOC: CB/CL/QR/7.8/BL-1 डॉ.ओ.सी. 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
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**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/95, 26.10.2023
2. Name of the project/ परियोजना का नाम : Hon'ble NGT matter
3. Sample matrix/ नमूना मैट्रिक्स : Fresh Water
4. Date & time of sample collection/ नमूना संग्रहण करने की तिथि एवं समय : 11.10.2023; 11:23 AM – 06:41 PM
5. Samples collected by/ नमूना एकत्रित करने वाले का नाम : Mr. Narendra Sharma and team
6. Date & time of sample receipt/नमूना प्राप्ति की तिथि एवं समय : 12.10.2023; 12:20 PM
7. Date of sample analysis/ नमूना विश्लेषण की तिथि : 12.10.2023
8. Sample registration no. & date/ नमूना पंजीकरण सं. एवं तिथि : Bio/82/MB/11/2023, 12.10.2023
9. Test method reference/ संदर्भित जांच पद्धति : APHA 24th Edition, 2023
10. Report sent to (Name & Address)/ रिपोर्ट प्रेषित किए जाने वाले का (नाम एवं पता) : RD, Chandigarh

S. No क्र.सं.	Sampling location नमूना स्थल	Lab Code लैब कोड	Analysis Results	
			Total Coliform	MPN/100ml
			कुल कोलिफॉर्म	एमपीएन/100एमएल
1.	RMR	MB-497	33X10 ²	
2.	BMR	MB-498	35X10 ³	
3.	AMR	MB-499	92X10 ³	
4.	UGV	MB-500	13X10 ³	
5.	DSG	MB-501	35X10 ³	
6.	BGM	MB-502	460	
7.	MLR	MB-503	11X10 ²	
8.	ABG	MB-504	70X10 ²	
9.	SGA	MB-505	23X10 ²	
10.	SDA	MB-506	79X10 ²	
11.	PYM	MB-507	92X10 ³	

Statement/ विवरण:

1. The results relate only to the samples tested. / परिणाम केवल परीक्षण किए गए नमूनों से संबंधित हैं।
2. The report shall not be reproduced, without the written approval of laboratory. / प्रयोगशाला के लिखित अनुमोदन के बिना रिपोर्ट की प्रतिकृति नहीं की जाएगी।
3. <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।
4. 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।

Dr. Annu Sabharwal
26.10.23
Analyst/विश्लेषक
(Dr. Annu Goel)
(Dr. Aprna Sabharwal)

शर्यापाल यादव
26/10/2023
Supervisor, Reviewer & Authorized Signatory
पर्यवेक्षक, पुनर्विलोकक एवं प्राधिकृत हस्ताक्षरकर्ता
(Dr. Yashpal Yadav)

जेड चंगसन
26/10/2023
DH Bio-Science lab
प्रभाग प्रमुख, जैव प्रयोगशाला
(Dr. Z. Changsan)



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Central Pollution Control Board **केंद्रीय प्रदूषण नियंत्रण बोर्ड**
Parivesh Bhawan, East Arjun Nagar, Delhi-110 032
परिवेश भवन, ईस्ट अर्जुन नगर, दिल्ली-110 032



Water Laboratory (Wastewater Section) **जल प्रयोगशाला (अपशिष्ट जल अनुभाग)**
Analysis Report **विश्लेषण आख्या**
NABL Accreditation: ISO/IEC 17025:2017, Certificate No: TC-7723

Source of sample: Drain/STP/ETP/Other : ड्रेन/एस टी पी/ई टी पी/अन्य
Samples collected by नमूने एकत्रित करने वाले का नाम
Date & time of sample Collection नमूने एकत्रकरण की तिथि एवं समय
Date & time of sample receipt नमूने प्राप्ति की तिथि एवं समय
Period of sample analysis नमूने के विश्लेषण की अवधि
Sample registration no. & date नमूने की पंजीकरण सं. एवं तिथि
Test method reference परीक्षण विधि का संदर्भ
Report sent to (Name & Division) आख्या जारी की गयी (नाम एवं प्रभाग)

: Drain ड्रेन.
: Sh. Narender Sharma & Team. श्री नरेंद्र शर्मा
: 08/10/2023
: 10/10/2023.
: 10th to 30th Oct 23.
: 179/Water/WW-07(14)/2023.
: APHA/BIS. एपीएचए/बीआईएस
: R.D Chandigarh आर डी चंडीगढ़

Report No.: आख्या सं : **WWL/OCT/179/2023**
Issue Date : जारी करने की तिथि : **13/11/2023**
LIMS : **WATER/WW/2324/SR 00087**

S. No	Sample Code	Sample No.	pH	COD	BOD	TSS	TDS	NH ₃ -N	PO ₄ -P
1.	V K D	1792	7.7	1026	567	143	716	33	3.3
2.	F K D	1793	8.1	138	56	14	592	04	BDL
3.	K R K D	1794	7.8	217	111	10	296	04	BDL
4.	O C D	1795	7.9	702	325	130	644	37	2.7
5.	N S D	1796	7.7	330	268	107	792	30	BDL
6.	J W D	1797	7.6	647	380	81	3804	05	0.1
7.	P D R	1798	7.8	790	361	467	2112	02	0.3

Note: All the concentrations are expressed in mg/l except pH & conductivity in $\mu\text{s}/\text{cm}$ (@ 25°C **नोट:** पीएच के अतिरिक्त सभी सांद्रता मिग्रा/ली. में व्यक्त की गई हैं।

Statement: कथन:

- The results relate only to the samples tested. परिणाम केवल जांचे गए नमूनों से संबंधित है।
- The report shall not be reproduced except in full without approval of the laboratory पूर्ण रिपोर्ट के अतिरिक्त प्रयोगशाला के अनुमोदन के बिना आख्या की प्रतिकृति नहीं की जायेगी।
- BDL & Test methods are mentioned on back side of this report. बी डी एल एवं परीक्षण विधि आख्या के अंत में दिए गए हैं।
- Samples will be retained only for one week after receipt of Report. संबंधित आख्या जारी होने के बाद नमूने केवल एक सप्ताह तक ही सुरक्षित रखे जाएंगे।

(Vijay Laxmi) विजय लक्ष्मी
Analyst विश्लेषक

(S.M. Bilal) एस एम बिलाल
Supervisor & Reviewer पर्यवेक्षक व पुनर्वलोकक

(Dr.K. Ranganathan) डॉ के रंगनाथन
D.H. Water Lab प्रमुख जल प्रयोगशाला

DOC: CB/CL/QR/7.8/WWL-03	Issue No: 01	Amendment No: 04	Issue Date: 17.09.2015	Amendment date: 19.03.2021	Page: 01 of 01
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B. WATER LABORATORY					
S. No.	Products/ Material of test	Specific Tests Performed	Test Method / Standard against which tests are performed	Range of Testing/ Limit of Detection	Uncertainty of Measurement
b.	Waste Water	Conductivity	APHA 2510 – B, 24 th Ed. 2023	1-40,000 μ mhos/cm	1404 \pm 18.17 μ mhos/cm
		Total Suspended solids	APHA 2540 D, 24 th Ed. 2023	10 – 15,000 mg/l	197 \pm 18.76 mg/l
		Total Solids	APHA 2540 B, 24 th Ed. 2023	10 – 20,000 mg/l	581 \pm 9.22mg/l
		Total Dissolved Solids	APHA 2540 C, 24 th Ed. 2023	10 -1,00,000 mg/l	762 \pm 15 mg/l
		Chemical Oxygen Demand	APHA 5220 B, 24 th Ed. 2023	05 – 90,000 mg/l	244.8 \pm 9.5 mg/l
		Bio – chemical Oxygen Demand	APHA 5210 B, 24 th Ed. 2023, 4500 OC, (5 days at 20 ^o C), IS-3025 part 44:1993, BOD (3 Days at 27 ^o C).	01 – 60,000 mg/l	166.8 \pm 14.31 mg/l
		Oil & Grease	APHA 5520 B, 24 th Ed. 2023	5 -200 mg/l	21.14 \pm 5.28 mg/l
		Phosphate – P	APHA 4500 – PD, 24 th Ed. 2023.	0.05 – 10 mg/l	0.209 \pm 0.023 mg/l
		Chloride	APHA 4500 – Cl B, 24 th Ed. 2023.	5 - 2000 mg/l	100 \pm 8.2 mg/l
		pH	APHA 4500 H ⁺ - B, 24 th Ed. 2023	2 - 14	7.0 \pm 0.1
		NH ₃ -N	APHA 4500 NH ₃ – B&C, 24 th Ed. 2023	1-100 mg/l	78.2 \pm 3.9 mg/l
		Cr ⁺⁶	APHA 3500 Cr– B, 24 th Ed. 2023	0.2- 10 mg/l	0.283 \pm 0.03 mg/l



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Central Pollution Control Board केंद्रीय प्रदूषण नियंत्रण बोर्ड
Parivesh Bhawan, East Arjun Nagar, Delhi-110 032

परिवेश भवन, ईस्ट अर्जुन नगर, दिल्ली-110 032

Water Laboratory (Wastewater Section) जल प्रयोगशाला (अपशिष्ट जल अनुभाग)
Analysis Report विश्लेषण आख्या

Source of sample: Drain/STP/ETP/Other स्रोत : ड्रेन/एस टी पी/ई टी पी/अन्य : **Drain ड्रेन**
Samples collected by नमूने एकत्रित करने वाले का नाम : **Sh. Narender Sharma & Team.**
Date & time of sample Collection नमूने एकत्रीकरण की तिथि एवं समय : **08/10/2023**
Date & time of sample receipt नमूने प्राप्ति की तिथि एवं समय : **10/10/2023.**
Period of sample analysis नमूने के विश्लेषण की अवधि : **10th to 30th Oct 23.**
Sample registration no. & date नमूने की पंजीकरण सं. एवं तिथि : **179/Water/WW- 07 (14)/2023.**
Test method reference परीक्षण विधि का संदर्भ : **APHA/BIS. एपीएचए/बीआईएस**
Report sent to (Name & Division) आख्या जारी की गयी (नाम एवं प्रभाग) : **R.D. Chandigarh आर डी चंडीगढ़**

Report No.: आख्या सं. : **WWL/OCT/179/2023**
Issue Date : जारी करने की तिथि : **13/11/2023**
LIMS : **WATER/WW/2324/SR00087**

S. No	Sample Code	Sample No.	Color	NO ₃ -N	SO ₄ ⁻
1.	V K D	1792	BDL<05	1.4	26
2.	F K D	1793	BDL<05	4.3	60
3.	K R K D	1794	BDL<05	0.5	41
4.	O C D	1795	BDL<05	3.4	08
5.	N C D	1796	BDL<05	2.8	50
6.	J W D	1797	BDL<05	3.4	134
7.	P D R	1798	BDL<05	4.0	83

Note: All the concentrations are expressed in mg/l except pH & color in color unit. **नोट :** पीएच के अतिरिक्त सभी सांद्रता मिग्रा/ली. में व्यक्त की गई हैं।

Statement:

कथन:

1. The results relate only to the samples tested. परिणाम केवल जांचे गए नमूनों से संबंधित है।
2. The report shall not be reproduced except in full without approval of the laboratory पूर्ण रिपोर्ट के अतिरिक्त प्रयोगशाला के अनुमोदन के बिना आख्या की प्रतिकृति नहीं की जायेगी।
3. BDL & Test methods are mentioned on back side of this report. बी डी एल एवं परीक्षण विधि आख्या के अंत में दिए गए हैं।
4. Samples will be retained only for one week after receipt of Report. संबंधित आख्या जारी होने के बाद नमूने केवल एक सप्ताह तक ही सुरक्षित रखे जाएंगे।

(U.S.Mishra उ.श. मिश्रा)
Analyst विश्लेषक

(S.M.Bilal एस एम बिलाल)
Supervisor & Reviewer पर्यवेक्षक व पुनर्वलोकक

(Dr.K. Ranganathan डॉ के रंगनाथन)
D.H. Water Lab प्रमुख जल प्रयोगशाला

DOC: CB/CL/QR/7.8/WWL-03	Issue No: 01	Amendment No: 04	Issue Date: 17.09.2015	Amendment date: 19.03.2021	Page: 01 of 01
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Central Pollution Control Board केंद्रीय प्रदूषण नियंत्रण बोर्ड
Parivesh Bhawan, East Arjun Nagar, Delhi-110 032
परिवेश भवन, ईस्ट अर्जुन नगर, दिल्ली-110 032

Water Laboratory (Wastewater Section) जल प्रयोगशाला (अपशिष्ट जल अनुभाग)

Analysis Report विश्लेषण आख्या

NABL Accreditation: ISO/IEC 17025:2017, Certificate No: TC-7723



Source of sample: Drain/STP/ETP/Other : ड्रेन/एस टी पी/ई टी पी/अन्य
Samples collected by नमूने एकत्रित करने वाले का नाम
Date & time of sample Collection नमूने एकत्रीकरण की तिथि एवं समय
Date & time of sample receipt नमूने प्राप्ति की तिथि एवं समय
Period of sample analysis नमूने के विश्लेषण की अवधि
Sample registration no. & date नमूने की पंजीकरण सं. एवं तिथि
Test method reference परीक्षण विधि का संदर्भ
Report sent to (Name & Division) आख्या जारी की गयी (नाम एवं प्रभाग)

: Drain
: Sh. Narendra Sharma & Team.
: 11/10/2023
: 12/10/2023.
: 12th to 30th Oct23.
: 180/Water/WW-06/2023.
: APHA/BIS. एपीएचए/बीआईएस
: R. D. Chandigarh

Report No.: आख्या सं : WWL/OCT/180/2023
Issue Date : जारी करने की तिथि : 08/11/2023
LIMS : WATER/2324/SR 00089

S. No	Sample Code	Sample No.	pH	COD	BOD	TSS	TDS	PO ₄ -P	NH ₃ -N
1.	GVD	1799	6.9	200	65	87	1100	0.7	-
2.	MLD	1800	7.1	92	21	142	536	1.0	-
3.	SGD	1801	7.2	72	16	135	164	1.0	-
4.	NGVD	1802	-	-	-	-	-	-	17
5.	NMLD	1803	-	-	-	-	-	-	07
6.	NSGD	1804	-	-	-	-	-	-	04

Note: All the concentrations are expressed in mg/l except pH & conductivity in $\mu\text{s}/\text{cm}$ (@ 25°C. नोट : पीएच के अतिरिक्त सभी सांद्रता मिग्रा/ली. में व्यक्त की गई हैं।

Statement:

कथन:

- The results relate only to the samples tested. परिणाम केवल जांचे गए नमूनों से संबंधित है।
- The report shall not be reproduced except in full without approval of the laboratory पूर्ण रिपोर्ट के अतिरिक्त प्रयोगशाला के अनुमोदन के बिना आख्या की प्रतिकृति नहीं की जायेगी।
- BDL & Test methods are mentioned on back side of this report. बी डी एल एवं परीक्षण विधि आख्या के अंत में दिए गए हैं।
- Samples will be retained only for one week after receipt of Report. संबंधित आख्या जारी होने के बाद नमूने केवल एक सप्ताह तक ही सुरक्षित रखे जाएंगे।

(Vinod Kumar)
Analyst

(S.M.Bilal)
Supervisor & Reviewer

(Dr.K. Ranganathan)
D.H. Water Lab

DOC: CB/CL/QR/7.8/WWL-03	Issue No: 01	Amendment No: 04	Issue Date: 17.09.2015	Amendment date: 19.03.2021	Page: 01 of 01
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B. WATER LABORATORY					
S. No.	Products/ Material of test	Specific Tests Performed	Test Method / Standard against which tests are performed	Range of Testing/ Limit of Detection	Uncertainty of Measurement
b.	Waste Water	Conductivity	APHA 2510 – B, 23 rd Ed. 2017	1-40,000 μ mhos/cm	1404 \pm 18.17 μ mhos/cm
		Total Suspended solids	APHA 2540 D, 23 rd Ed. 2017	10 – 15,000 mg/l	197 \pm 18.76 mg/l
		Total Solids	APHA 2540 B, 23 rd Ed. 2017	10 – 20,000 mg/l	581 \pm 9.22mg/l
		Total Dissolved Solids	APHA 2540 C, 23 rd Ed. 2017	10 -1,00,000 mg/l	762 \pm 15 mg/l
		Chemical Oxygen Demand	APHA 5220 B, 23 rd Ed. 2017.	05 – 90,000 mg/l	244.8 \pm 9.5 mg/l
		Bio – chemical Oxygen Demand	APHA 5210 B, 23 rd Ed. 2017, 4500 OC, (5 days at 20 ^o C), IS-3025 part 44:1993, BOD (3 Days at 27 ^o C).	01 – 60,000 mg/l	166.8 \pm 14.31 mg/l
		Oil & Grease	APHA 5520 B, 23 rd Ed. 2017	5 -200 mg/l	21.14 \pm 5.28 mg/l
		Phosphate – P	APHA 4500 – PD, 23 rd Ed. 2017.	0.05 – 10 mg/l	0.209 \pm 0.023 mg/l
		Chloride	APHA 4500 – Cl B, 23 rd Ed. 2017.	5 - 2000 mg/l	100 \pm 8.2 mg/l
		pH	APHA 4500 H ⁺ - B, 23 rd Ed. 2017	2 - 14	7.0 \pm 0.1
		NH ₃ -N	APHA 4500 NH ₃ – B&C, 23 rd Ed. 2017	1-100 mg/l	78.2 \pm 3.9 mg/l
		Cr ⁺⁶	APHA 3500 Cr– B, 23 rd Ed. 2017	0.1- 10 mg/l	0.283 \pm 0.03 mg/l



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Central Pollution Control Board केंद्रीय प्रदूषण नियंत्रण बोर्ड

Parivesh Bhawan, East Arjun Nagar, Delhi-110 032

परिवेश भवन, ईस्ट अर्जुन नगर, दिल्ली-110 032

Water Laboratory (Wastewater Section) जल प्रयोगशाला (अपशिष्ट जल अनुभाग)

Analysis Report विश्लेषण आख्या

Source of sample: Drain/STP/ETP/Other स्रोत : ड्रेन/एस टी पी/ई टी पी/अन्य : **Drain.**
Samples collected by नमूने एकत्रित करने वाले का नाम : **Sh. Narender Sharma & Team.**
Date & time of sample Collection नमूने एकत्रीकरण की तिथि एवं समय : **11/10/2023**
Date & time of sample receipt नमूने प्राप्ति की तिथि एवं समय : **12/10/2023.**
Period of sample analysis नमूने के विश्लेषण की अवधि : **12th to 30th Oct 23.**
Sample registration no. & date नमूने की पंजीकरण सं. एवं तिथि : **180/Water/WW-06/2023.**
Test method reference परीक्षण विधि का संदर्भ : **APHA/BIS. एपीएचए/बीआईएस**
Report sent to (Name & Division) आख्या जारी की गयी (नाम एवं प्रभाग) : **R.D Chandigarh**

Report No.: आख्या सं : **WWL/OCT/180/2023**

Issue Date : जारी करने की तिथि : **08/11/2023**

LIMS : **WATER/2324/SR 00089**

S. No	Sample Code	Sample No.	Color	NO ₃ -N	SO ₄ ⁻⁻
1.	G V D	1799	BDL<05	2.5	60
2.	M L D	1800	BDL<05	0.6	26
3.	S G D	1801	BDL<05	0.2	15

Note: All the concentrations are expressed in mg/l except pH & color in color unit. नोट : पीएच के अतिरिक्त सभी सांद्रता मिग्रा/ली. में व्यक्त की गई हैं ।

Statement:

कथन:

1. The results relate only to the samples tested. परिणाम केवल जांचे गए नमूनों से संबंधित है।
2. The report shall not be reproduced except in full without approval of the laboratory पूर्ण रिपोर्ट के अतिरिक्त प्रयोगशाला के अनुमोदन के बिना आख्या की प्रतिकृति नहीं की जायेगी ।
3. BDL & Test methods are mentioned on back side of this report. बी डी एल एवं परीक्षण विधि आख्या के अंत में दिए गए हैं ।
4. Samples will be retained only for one week after receipt of Report. संबंधित आख्या जारी होने के बाद नमूने केवल एक सप्ताह तक ही सुरक्षित रखे जाएंगे ।


(Mintu Kumar)
Analyst


(S.M. Bilal)
Supervisor & Reviewer


(Dr. K. Ranganathan)
D.H. Water Lab

DOC: CB/CL/QR/7.8/WWL-03	Issue No: 01	Amendment No: 04	Issue Date: 17.09.2015	Amendment date: 19.03.2021	Page: 01 of 01
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CENTRAL POLLUTION CONTROL BOARD
Parivesh Bhawan, E-657, Connaught Place, New Delhi-110032
INSTRUMENTATION LABORATORY
Metal Analysis Report



TC-7723

1.	Place of Analysis	: Instrumentation Laboratory
2.	Report No. & Issue Date	: IL/HM/ICP-OES/1265; 30.10.2023
3.	Report sent to (Name, Mobile no. & Address of Indenter)	: RD Chandigarh
4.	Test Method Reference	: APHA, 3120-B, 24th Ed. 2023
5.	Sample condition (please describe, if not as per procedure)	: As per procedure
6.	Sample Matrix	: Wastewater
7.	Date & Time of Sample Collection	: 08.10.2023
8.	Samples Collected by	: Sh. Narendra Sharma, Sh. Amit Kumar Sagar & Sh. Shubham
9.	Date & Time of Sample Receipt	: 10.10.2023
10.	Sample Registration No. & Date	: INSTR/HM/2324/SR00082; 10.10.2023
11.	Date of Sample Analysis	: 13.10.2023
12.	Sampling Plan Reference	: NGT Matter

S. No	Sample Code	As (mg/L)	Cd (mg/L)	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Fe (mg/L)	Mn (mg/L)	Ni (mg/L)	Pb (mg/L)	Zn (mg/L)
1.	VKD	BDL	BDL	BDL	0.127	0.060	3.014	0.273	0.007	0.031	0.547
2.	FKD	BDL	BDL	BDL	0.008	BDL	0.564	0.841	0.006	BDL	0.039
3.	KRKD	BDL	BDL	BDL	0.009	BDL	0.321	0.027	0.005	BDL	0.021
4.	OCD	BDL	BDL	BDL	0.012	0.027	1.272	0.138	0.010	0.015	0.088
5.	NCD	BDL	BDL	0.034	1.165	0.210	24.311	5.759	0.497	0.008	0.054
6.	JWD	BDL	BDL	BDL	0.021	0.009	1.235	0.460	0.008	BDL	0.038
7.	PDR	BDL	BDL	0.007	0.053	0.042	14.081	0.956	0.036	0.024	0.104

BDL: Below Detection Limit

Detection Limit -Wastewater (µg/L):- As-14.6, Cd-2.42, Co-1.61, Cr-3.32, Cu-5.85, Fe-1.94, Mn-0.99, Ni-4.88, Pb-6.32 & Zn-10.55
Statement:

1. The Results related only to the samples tested as received.
2. The report shall not be reproduced except in full, without the written approval of the Laboratory.
3. The parameter is under the scope of NABL accreditation, ISO-17025:2017 (Certificate No.TC-7723).
4. Samples will be retained for 30 days from the date of issue of Test Report.

Maneesh N
30.10.2023

Dr. MANEESH N

Analyst

Yogita
30/10/2023

Dr. YOGITA KHARAYAT

Supervisor & Reviewer

Manish
30/10/2023

D H Instrumentation Lab



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/94, 27.10.2023 |
| 2. Name of the project/ परियोजना का नाम | : Hon'ble NGT matter |
| 3. Sample matrix/ नमूना मैट्रिक्स | : Waste Water |
| 4. Date & time of sample collection/ नमूना संग्रहण करने की तिथि एवं समय | : 08.10.2023; 09:35 AM – 05:54 PM |
| 5. Samples collected by/ नमूना एकत्रित करने वाले का नाम | : Mr. Narendra Sharma and team |
| 6. Date & time of sample receipt/ नमूना प्राप्त की तिथि एवं समय | : 10.10.2023; 02:00 PM |
| 7. Date of sample analysis/ नमूना विश्लेषण की तिथि | : 10.10.2023 |
| 8. Sample registration no. & date/ नमूना पंजीकरण सं. एवं तिथि | : Bio/81/MB/12/2023, 10.10.2023 |
| 9. Test method reference/ संदर्भित जांच पद्धति | : APHA 24 th Edition, 2023 |
| 10. Report sent to (Name & Address)/ रिपोर्ट प्रेषित किए जाने वाले का (नाम एवं पता) | : RD, Chandigarh |

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 स्ट्रेप्टोकोकाई एमपीएन/100एमएल	Enterococcus MPN/100ml एन्ट्रोकोकस एमपीएन/100एमएल	E. coli MPN/100ml ई.कोलाई एमपीएन/100एमएल
11.	VKD	MB-495	13X10 ⁶	79X10 ⁵	--	--	--
12.	PDR	MB-496	28X10 ⁷	20X10 ⁵	--	--	--

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 कोलिफॉर्म 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।

Ana Sabharwal
27/10/23
Analyst/ विश्लेषक
(Dr. Annu Goel)
(Dr. Aprna Sabharwal)

यशपाल यादव
27/10/2023
Supervisor, Reviewer & Authorized Signatory
पर्यवेक्षक, पुनर्विलोकक एवं प्राधिकृत हस्ताक्षरकर्ता
(Dr. Yashpal Yadav)

जेड चांगसन
27/10/2023
DH Bio-Science Lab
प्रभाग प्रमुख, जैव प्रयोगशाला
(Dr. Z. Changsan)

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
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CENTRAL POLLUTION CONTROL BOARD
Parivesh Bhawan, East Connaught Place, Delhi-110032
INSTRUMENTATION LABORATORY
Metal Analysis Report



TC-7723

1.	Place of Analysis	: Instrumentation Laboratory
2.	Report No. & Issue Date	: IL/HM/ICP-OES/1263; 30.10.2023
3.	Report sent to (Name, Mobile no. & Address of Indenter)	: RD Chandigarh
4.	Test Method Reference	: APHA, 3120-B, 24 th Ed. 2023
5.	Sample condition (please describe, if not as per procedure)	: As per procedure
6.	Sample Matrix	: Wastewater
7.	Date & Time of Sample Collection	: 11.10.2023
8.	Samples Collected by	: Sh. Narendra Sharma, Sh. Amit Kumar Sagar & Sh. Shubham
9.	Date & Time of Sample Receipt	: 12.10.2023
10.	Sample Registration No. & Date	: INSTR/HM/2324/SR00085; 12.10.2023
11.	Date of Sample Analysis	: 18.10.2023
12.	Sampling Plan Reference	: NGT Matter

S. No	Sample Code	As (mg/L)	Cd (mg/L)	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Fe (mg/L)	Mn (mg/L)	Ni (mg/L)	Pb (mg/L)	Zn (mg/L)
1.	GVD	BDL	BDL	BDL	0.010	0.007	1.201	0.277	BDL	0.007	0.047
2.	MLD	BDL	BDL	0.002	0.012	BDL	4.493	0.214	0.007	BDL	0.021
3.	SGD	BDL	BDL	0.002	0.017	BDL	5.379	0.224	0.010	0.009	0.018

BDL: Below Detection Limit

Detection Limit -Wastewater (µg/L):- As-14.6, Cd-2.42, Co-1.61, Cr-3.32, Cu-5.85, Fe-1.94, Mn-0.99, Ni-4.88, Pb-6.32 & Zn-10.55

Statement:

1. The Results related only to the samples tested as received.
2. The report shall not be reproduced except in full, without the written approval of the Laboratory.
3. The parameter is under the scope of NABL accreditation, ISO-17025:2017 (Certificate No.TC-7723).
4. Samples will be retained for 30 days from the date of issue of Test Report.

Maneesh N
30.10.2023

Dr. MANEESH N

Analyst

Yogita
30/10/2023

Dr. YOGITA KHARAYAT

Supervisor & Reviewer

Amrta
30/10/2023

D H Instrumentation Lab



Central Pollution Control Board केंद्रीय प्रदूषण नियंत्रण बोर्ड
Parivesh Bhawan, East Arjun Nagar, Delhi-110 032
परिवेश भवन, ईस्ट अर्जुन नगर, दिल्ली-110 032
Water Laboratory (Wastewater Section) जल प्रयोगशाला (अपशिष्ट जल अनुभाग)
Analysis Report विश्लेषण आख्या
NABL Accreditation: ISO/IEC 17025:2017, Certificate No: TC-7723



Source of sample: Drain/STP/ETP/Other स्रोत : ड्रेन/एस टी पी/ई टी पी/अन्य
 Samples collected by नमूने एकत्रित करने वाले का नाम
 Date & time of sample Collection नमूने एकत्रीकरण की तिथि एवं समय
 Date & time of sample receipt नमूने प्राप्ति की तिथि एवं समय
 Period of sample analysis नमूने के विश्लेषण की अवधि
 Sample registration no. & date नमूने की पंजीकरण सं. एवं तिथि
 Test method reference परीक्षण विधि का संदर्भ
 Report sent to (Name & Division) आख्या जारी की गयी (नाम एवं प्रभाग)

: E.T.P/CETP/S.T.P & Drain.
 : Sh. Narender Sharma & Team.
 : 25/09/2023
 : 27/09/2023.
 : 27th Sep to 30th Oct 23.
 : 169/Water/WW-34/2023.
 : APHA/BIS. एपीएचए/बीआईएस
 : R.D. Chandigarh

Report No.: आख्या सं.: WWL/SEP/169/2023
 Issue Date: जारी करने की तिथि : 08/11/2023
 LIMS : WATER/WW/2324/SR 00078

S. No	Sample Code	Sample No.	pH	COD	BOD	TSS	TDS	PO ₄ -P	Cl ⁻
1.	N A S-1	1658	7.8	505	187	23	-	-	-
2.	C D -1	1660	7.6	507	212	24	-	0.50	-
3.	R U D -1	1662	7.8	913	445	-	-	-	-
4.	R D D-1	1664	7.5	318	108	24	-	0.07	-
5.	B R W -1	1666	7.4	669	403	136	-	-	-
6.	S H A -1	1667	7.2	313	153	85	-	-	-
7.	A C -1	1668	7.6	624	286	136	1064	-	-
8.	B R W -2	1669	8.2	195	75	11	916	0.40	131
9.	S H A -3	1670	8.4	196	63	08	624	0.06	101
10.	A C -2	1671	8.4	243	98	13	584	1.80	67
11.	N R 3-1	1673	7.3	234	97	33	-	-	-
12.	B R 4-1	1676	7.9	223	99	14	-	-	-

Note: All the concentrations are expressed in mg/l except pH & conductivity in $\mu\text{s}/\text{cm}$ (@ 25°C. नोट : पीएच के अतिरिक्त सभी सांद्रता मिग्र/ली. में व्यक्त की गई हैं।

Statement: कथन:

- The results relate only to the samples tested. परिणाम केवल जांचे गए नमूनों से संबंधित है।
- The report shall not be reproduced except in full without approval of the laboratory पूर्ण रिपोर्ट के अतिरिक्त प्रयोगशाला के अनुमोदन के बिना आख्या की प्रतिकृति नहीं की जायेगी।
- BDL & Test methods are mentioned on back side of this report. बी डी एल एवं परीक्षण विधि आख्या के अंत में दिए गए हैं।
- Samples will be retained only for one week after receipt of Report. संबंधित आख्या जारी होने के बाद नमूने केवल एक सप्ताह तक ही सुरक्षित रखे जाएंगे।

(Vijay Laxmi)
Analyst

(S.M.Bilal)
Supervisor & Reviewer

(Dr.K. Ranganathan)
D.H. Water Lab

DOC: CB/CL/QR/7.8/WWL-03 Issue No: 01 Amendment No: 04 Issue Date: 17.09.2015 Amendment date: 19.03.2021 Page: 01 of 02



Central Pollution Control Board केंद्रीय प्रदूषण नियंत्रण बोर्ड
Parivesh Bhawan, East Arjun Nagar, Delhi-110 032
परिवेश भवन, ईस्ट अर्जुन नगर, दिल्ली-110 032
Water Laboratory (Wastewater Section) जल प्रयोगशाला (अपशिष्ट जल अनुभाग)
Analysis Report विश्लेषण आख्या
NABL Accreditation: ISO/IEC 17025:2017, Certificate No: TC-7723



S. No	Sample Code	Sample No.	NH ₃ -N	Oil & Grease	Cr 6 ⁺
13.	C D -10	1661	07	-	-
14	R U D -9	1663	23	-	-
15.	R D D -4	1665	06	-	-
16	S H A-2	1672	-	194	-
17.	N R 3-5	1674	31	-	-
18.	B R W-4	1675	14	-	-
19.	B R W-5	1677	-	-	BDL
20.	S H A-6	1678	-	-	BDL
21.	A C -5	1679	-	-	BDL
22.	B R W -7	1683	05	-	-
23.	S H A -8	1684	04	-	-
24.	A C -7	1685	07	-	-
25.	S H A-10	1689	-	BDL	-
26.	B R W-09	1690	-	BDL	-
27.	A C -09	1691	-	BDL	-

Note : All the concentrations are expressed in mg/l except pH & conductivity in $\mu\text{s}/\text{cm}$ (@ 25°C). नोट : पीएच के अतिरिक्त सभी सांद्रता मिग्रा/ली. में व्यक्त की गई हैं।

Statement :

कथन:

- The results relate only to the samples tested. परिणाम केवल जांचे गए नमूनों से संबंधित है।
- The report shall not be reproduced except in full without approval of the laboratory पूर्ण रिपोर्ट के अतिरिक्त प्रयोगशाला के अनुमोदन के बिना आख्या की प्रतिकृति नहीं की जायेगी
- BDL & Test methods are mentioned on back side of this report. बी डी एल एवं परीक्षण विधि आख्या के अंत में दिए गए हैं।
- Samples will be retained only for one week after receipt of Report. संबंधित आख्या जारी होने के बाद नमूने केवल एक सप्ताह तक ही सुरक्षित रखे जाएंगे।

(Vijay Laxmi)
Analyst

(S.M.Bilal)

Supervisor & Reviewer

(K. Ranganathan)
Dr.K. Ranganathan
D.H. Water Lab

8/11/23

DOC: CB/CL/QR/7.8/WWL-03	Issue No: 01	Amendment No: 04	Issue Date: 17.09.2015	Amendment date: 19.03.2021	Page: 02 of 02
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B. WATER LABORATORY					
S. No.	Products/ Material of test	Specific Tests Performed	Test Method / Standard against which tests are performed	Range of Testing/ Limit of Detection	Uncertainty of Measurement
b.	Waste Water	Conductivity	APHA 2510 – B, 23 rd Ed. 2017	1-40,000 μ mhos/cm	1404 \pm 18.17 μ mhos/cm
		Total Suspended solids	APHA 2540 D, 23 rd Ed. 2017	10 – 15,000 mg/l	197 \pm 18.76 mg/l
		Total Solids	APHA 2540 B, 23 rd Ed. 2017	10 – 20,000 mg/l	581 \pm 9.22mg/l
		Total Dissolved Solids	APHA 2540 C, 23 rd Ed. 2017	10 -1,00,000 mg/l	762 \pm 15 mg/l
		Chemical Oxygen Demand	APHA 5220 B, 23 rd Ed. 2017.	05 – 90,000 mg/l	244.8 \pm 9.5 mg/l
		Bio – chemical Oxygen Demand	APHA 5210 B, 23 rd Ed. 2017, 4500 OC, (5 days at 20 ^o C), IS-3025 part 44:1993, BOD (3 Days at 27 ^o C).	01 – 60,000 mg/l	166.8 \pm 14.31 mg/l
		Oil & Grease	APHA 5520 B, 23 rd Ed. 2017	5 -200 mg/l	21.14 \pm 5.28 mg/l
		Phosphate – P	APHA 4500 – PD, 23 rd Ed. 2017.	0.05 – 10 mg/l	0.209 \pm 0.023 mg/l
		Chloride	APHA 4500 – Cl B, 23 rd Ed. 2017.	5 - 2000 mg/l	100 \pm 8.2 mg/l
		pH	APHA 4500 H ⁺ - B, 23 rd Ed. 2017	2 - 14	7.0 \pm 0.1
		NH ₃ -N	APHA 4500 NH ₃ – B&C, 23 rd Ed. 2017	1-100 mg/l	78.2 \pm 3.9 mg/l
		Cr ⁺⁶	APHA 3500 Cr– B, 23 rd Ed. 2017	0.1- 10 mg/l	0.283 \pm 0.03 mg/l



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Central Pollution Control Board केंद्रीय प्रदूषण नियंत्रण बोर्ड
Parivesh Bhawan, East Arjun Nagar, Delhi-110 032
परिवेश भवन, ईस्ट अर्जुन नगर, दिल्ली-110 032

Water Laboratory (Wastewater Section) जल प्रयोगशाला (अपशिष्ट जल अनुभाग)
Analysis Report विश्लेषण आख्या

S. No	Sample Code	Sample No.	NO ₃ -N	NO ₂ -N	TKN	CN	Phenol	Sulphide
9.	NR 3-1	1673	-	BDL<0.01	-	-	-	-
10.	NR 3 -5	1674	-	-	32	-	-	-
11.	BR 4-4	1675	-	-	16	-	-	-
12.	BR 4 -1	1676	3.5	BDL<0.01	-	-	-	-
13.	BR W -6	1680	-	-	-	BDL<0.5	-	-
14.	SHA -7	1681	-	-	-	BDL<0.5	-	-
15.	AC -6	1682	-	-	-	BDL<0.5	-	-
16.	BR W -7	1683	-	-	07	-	0.6	-
17.	SHA-8	1684	-	-	05	-	BDL<0.1	-
18.	AC -7	1685	-	-	08	-	BDL<0.1	-
19.	AC -8	1686	-	-	-	-	-	4.0
20.	BR W 8	1687	-	-	-	-	-	6.0
21.	SHA-9	1688	-	-	-	-	-	4.0

Note: All the concentrations are expressed in mg/l except pH & SAR in Ratio . **नोट:** पीएच के अतिरिक्त सभी सांद्रता मिग्रा/ली. में व्यक्त की गई हैं ।

Statement:

कथन:

- The results relate only to the samples tested. परिणाम केवल जांचे गए नमूनों से संबंधित है।
- The report shall not be reproduced except in full without approval of the laboratory. पूर्ण रिपोर्ट के अतिरिक्त प्रयोगशाला के अनुमोदन के बिना आख्या की प्रतिकृति नहीं की जायेगी ।
- BDL & Test methods are mentioned on back side of this report. बी डी एल एवं परीक्षण विधि आख्या के अंत में दिए गए हैं ।
- Samples will be retained only for one week after receipt of Report. संबंधित आख्या जारी होने के बाद नमूने केवल एक सप्ताह तक ही सुरक्षित रखे जाएंगे ।

U.S. Mishra
(U.S. Mishra)

Analyst

(S.M. Bilal)

Supervisor & Reviewer

K. Ranganathan
(Dr.K. Ranganathan)

D.H. Water Lab

DOC: CB/CL/QR/7.8/WWL- 03	Issue No: 01	Amendment No: 04	Issue Date: 17.09.2015	Amendment date : 19.03.2021	Page: 02 of 02
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Central Pollution Control Board केंद्रीय प्रदूषण नियंत्रण बोर्ड
Parivesh Bhawan, East Arjun Nagar, Delhi-110 032
परिवेश भवन, ईस्ट अर्जुन नगर, दिल्ली-110 032

Water Laboratory (Wastewater Section) जल प्रयोगशाला (अपशिष्ट जल अनुभाग)
Analysis Report विश्लेषण आख्या

Source of sample: Drain/STP/ETP/Other : ड्रेन/एस टी पी/ई टी /अन्य : E.T.P.
Samples collected by नमूने एकत्रित करने वाले का नाम : Sh. Narendra Sharma &Team.
Date & time of sample Collection नमूने एकत्रीकरण की तिथि एवं समय : 25/09/2023.
Date & time of sample receipt नमूने प्राप्ति की तिथि एवं समय : 27/09/2023
Period of sample analysis नमूने के विश्लेषण की अवधि : 27th Sep to 30th Oct 23.
Sample registration no. & date नमूने की पंजीकरण सं. एवं तिथि : 169/Water/WW-34/23.
Test method reference परीक्षण विधि का संदर्भ : APHA/BIS. एपीएचए/बीआईएस
Report sent to (Name & Division)आख्या जारी की गयी (नाम एवं प्रभाग) : R. D. Chandigarh.

Report No.: आख्या सं : WWL/SEP/169/23
Issue Date : जारी करने की तिथि : 08/11/2023
LIMS : WATER/WW/2324/SR00078

S. No	Sample Code	Sample No.	SAR	MLSS	MLVSS	NO ₃ -N	NO ₂ -N	FDS	Fluoride	SO ₄ ⁻
1.	N A S-1	1658	7.2	-	-	-	-	-	-	-
2.	N A S-10	1659	-	3992	2293	-	-	-	-	-
3.	C D-1	1660	8.9	-	-	3.7	BDL<0.01	-	-	-
4.	R D D-1	1664	-	-	-	3.0	BDL<0.01	-	-	-
5.	A C -1	1668	-	-	-	-	-	908	-	-
6.	B R W -2	1669	-	-	-	1.2	-	700	3.2	186
7.	S H A-3	1670	-	-	-	5.7	-	528	14.0	46
8.	A C -2	1671	-	-	-	9.6	-	468	3.1	102

Note: All the concentrations are expressed in mg/l except pH & SAR in Ratio. नोट: पीएच के अतिरिक्त सभी सांद्रता मिग्रा/ली. में व्यक्त की गई हैं।

Statement:

कथन:

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- BDL & Test methods are mentioned on back side of this report. बी डी एल एवं परीक्षण विधि आख्या के अंत में दिए गए हैं।
- Samples will be retained only for one week after receipt of Report. संबंधित आख्या जारी होने के बाद नमूने केवल एक सप्ताह तक ही सुरक्षित रखे जाएंगे।

U.S. Mishra
(U.S. Mishra)

Analyst

(S.M. Bilal)

Supervisor & Reviewer

K. Ranganathan
(Dr. K. Ranganathan)

D.H. Water Lab

DOC: CB/CL/QR/7.8/WWL- 03	Issue No: 01	Amendment No: 04	Issue Date: 17.09.2015	Amendment date : 19.03.2021	Page: 01 of 02
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AD/MS
2.8/10/2023
PA (SW)
665
31/11/23

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

- Report no. & issue date/ रिपोर्ट सं. एवं जारी करने की तिथि : Bio/Micro/89, 16.10.2023
- Name of the project/ परियोजना का नाम : Hon'ble NGT matter
- Sample matrix/ नमूना मैट्रिक्स : Waste Water
- Date & time of sample collection/ नमूना संग्रहण करने की तिथि एवं समय : 25.09.2023
- Samples collected by/ नमूना एकत्रित करने वाले का नाम : Sh. Narendra Sharma and team
- Date & time of sample receipt/ नमूना प्राप्ति की तिथि एवं समय : 27.09.2023; 02:00 PM
- Date of sample analysis/ नमूना विश्लेषण की तिथि : 27.09.2023
- Sample registration no. & date/ नमूना पंजीकरण सं. एवं तिथि : Bio/76/MB/06/2023, 27.09.2023
- Test method reference/ संदर्भित जांच पद्धति : APHA 23rd Edition, 2017
- Report sent to (Name & Address)/ रिपोर्ट प्रेषित किए जाने वाले का (नाम एवं पता) : RD, Chandigarh



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 स्ट्रेप्टोकोकाई एमपीएन/100एमएल	Enterococcus MPN/100ml एन्ट्रोकोकस	E. coli MPN/100ml ई.कोलाई
1.	NAS-4	MB-443#	<1.8	<1.8	--	--	--
2.	CD-4	MB-444	22X10 ⁸	24X10 ⁷	--	--	--
3.	RDD-3	MB-445#	<1.8	<1.8	--	--	--
4.	RUD-4	MB-446	14X10 ⁹	55X10 ⁷	--	--	--
5.	BR4-3	MB-447#	20	<1.8	--	--	--
6.	NR3-4	MB-448	11X10 ⁵	11X10 ⁵	--	--	--

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 कोलिफॉर्म 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।
- # Chlorine was detected in the samples/ नमूने में क्लोरिन पाई गई।

Analyst/ विश्लेषक
(Dr. Annu Goel)

Supervisor, Reviewer & Authorized Signatory
पर्यवेक्षक, पुनर्विलोकक एवं प्राधिकृत हस्ताक्षरकर्ता
(Dr. Yashpal Yadav)

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

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. 239 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
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655/D.S
17.10.2023



CENTRAL POLLUTION CONTROL BOARD
Parivesh Bhawan, East Arjun Nagar, Delhi-110 032

INSTRUMENTATION LABORATORY
AOX Analysis Report

- | | | | |
|-----|----------------------------------|---|--|
| 1. | Report no. & issue date | : | 28/AOX/2023, Dt. 07.11.2023 |
| 2. | Name of the project | : | NGT Matter |
| 3. | Sample matrix | : | Wastewater |
| 4. | Date & time of sample collection | : | 25.09.2023 |
| 5. | Samples collected by | : | Narender Sharma, Amit Kumar Sagar, Shubham |
| 6. | Date & time of sample receipt | : | 27.09.2023; 02:53 PM |
| 7. | Date of sample analysis | : | 07.11.2023 |
| 8. | Sample registration no. & date | : | INSTR/AOX/2324/SR00003 |
| 9. | Sampling plan reference | : | NIL |
| 10. | Test method reference | : | USEPA 1650C |
| 11. | Report sent to (Name & Address) | : | RD Chandigarh |

S.No.	Sample Code	AOX as Cl ⁻ (ppm)
1.	CD-9	13.177
2.	NAS-9	18.544

DL: 0.05 ppm, (BDL – Below Detection Limit)

Statement:

- The results relate only to the samples tested.
- The report shall not be reproduced except in full, without the written approval of the laboratory.
- Sample will be retained for 30 days from the date of issue of Test Report.

Maneesh N
07/11/2023

Dr. Maneesh N
Analyst

K. Ranganathan
07/11/2023

Dr. K. Ranganathan
Supervisor & Reviewer

K. Ranganathan
07/11/2023

Dr. K. Ranganathan
D.H. Instrumentation Laboratory

1.	Place of Analysis	:	Instrumentation Laboratory
2.	Report No. & Issue Date	:	IL/HM/ICP-OES/1261; 10.10.2023
3.	Report sent to (Name, Mobile no. & Address of Indenter)	:	RD Chandigarh
4.	Test Method Reference	:	APHA, 3120-B, 23rd Ed. 2017
5.	Sample condition (please describe, if not as per procedure)	:	As per procedure
6.	Sample Matrix	:	Wastewater
7.	Date & Time of Sample Collection	:	25.09.2023 & 26.09.2023
8.	Samples Collected by	:	Sh. Narendra Sharma, Sh. Amit Kumar Sagar & Sh. Shubham
9.	Date & Time of Sample Receipt	:	27.09.2023
10.	Sample Registration No. & Date	:	INSTR/HM/2324/SR00073; 27.09.2023
11.	Date of Sample Analysis	:	06.10.2023
12.	Sampling Plan Reference	:	NGT Matter

S. No	Sample Code	As (mg/L)	Cd (mg/L)	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Fe (mg/L)	Mn (mg/L)	Ni (mg/L)	Pb (mg/L)	Zn (mg/L)
1.	NAS-3	BDL	BDL	BDL	0.014	BDL	0.107	0.010	BDL	BDL	BDL
2.	CD-3	BDL	BDL	BDL	0.016	BDL	1.115	0.131	BDL	BDL	0.015
3.	RUD-3	BDL	BDL	BDL	0.024	BDL	3.624	0.379	0.011	0.019	0.186
4.	RDD-2	BDL	BDL	BDL	0.019	BDL	0.241	0.019	BDL	BDL	BDL
5.	NR3-2	BDL	BDL	BDL	0.010	BDL	0.877	0.133	BDL	BDL	0.044
6.	BR4-2	BDL	BDL	BDL	0.012	BDL	0.430	0.105	BDL	BDL	BDL
7.	BRW-3	BDL	BDL	BDL	0.023	0.078	0.217	0.075	0.172	BDL	0.016
8.	SHA-4	BDL	BDL	BDL	0.013	0.010	0.507	0.157	0.056	BDL	BDL
9.	AC-3	BDL	BDL	BDL	0.005	BDL	0.248	0.140	BDL	BDL	0.055

BDL: Below Detection Limit

Detection Limit -Wastewater (µg/L):- As-14.6, Cd-2.42, Co-1.61, Cr-3.32, Cu-5.85, Fe-1.94, Mn-0.99, Ni-4.88, Pb-6.32 & Zn-10.55

Statement:

1. The Results related only to the samples tested as received.
2. The report shall not be reproduced except in full, without the written approval of the Laboratory.
3. The parameter is under the scope of NABL accreditation, ISO-17025:2017 (Certificate No.TC-7723).
4. Samples will be retained for 30 days from the date of issue of Test Report.

Manish N
10.10.2023

MANEESH N

Analyst

Ym
10/10/2023

Dr. YOGITA KHARAYAT

Supervisor & Reviewer

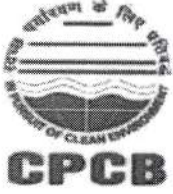
K. P. J
10/10/23

Dr. K. RANGANATHAN

D H Instrumentation Lab

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CENTRAL POLLUTION CONTROL BOARD
Parivesh Bhawan, East Arjun Nagar, Delhi-110032
INSTRUMENTATION LABORATORY
Mercury Analysis Report



TC-7723

1.	Place of analysis	:	Instrumentation Laboratory
2.	Report No. & Issue Date	:	IL/HM/AAS-134; 11.10.2023
3.	Report sent to (Name, Mobile no. & Address of Indenter)	:	D.H, RD Chandigarh
4.	Test Method reference	:	APHA, 3112-B, 23rd Ed. 2017
5.	Sample condition (please describe, if not as per procedure)	:	As per procedure
6.	Sample matrix	:	Wastewater
7.	Date & Time of sample collection	:	26.09.2023
8.	Samples collected by	:	Sh. Narendra Sharma, Sh. Amit Kumar Sagar & Sh. Shubham
9.	Date & Time of sample receipt	:	27.09.2023
10.	Sample Registration No. & date	:	INSTR/HG/2324/SR00008; 27.09.2023
11.	Date of sample analysis	:	10.10.2023
12.	Sampling Plan reference	:	NGT Matter

S. No.	Sample Code	Total Mercury Concentration (µg/L)
1.	BRW-4	BDL
2.	SHA-5	BDL
3.	AC-4	BDL

Note: BDL – Below Detection Limit.

Minimum Detection Limit – 0.70 µg/L.

Statement:

1. The results relate only to the samples tested.
2. The report shall not be reproduced except in full, without the written approval of the Laboratory.
3. Sample will be retained for 30 days from the date of issue of Test Report.
4. The parameter is under the scope of NABL accreditation, ISO-17025:2017 (Certificate No.TC-7723).

(Signature)
11.10.2023

(Dr. L.N. GUPTA)
Analyst

(Signature)
12.10.2023

(B.K. JENA)
Supervisor/Reviewer

(Signature)
12/10/23

(Dr. K. RANGANATHAN)
D.H. Instrumentation Lab.



Central Pollution Control Board केंद्रीय प्रदूषण नियंत्रण बोर्ड
Parivesh Bhawan, East Arjun Nagar, Delhi-110 032
परिवेश भवन, ईस्ट अर्जुन नगर, दिल्ली-110 032



Water Laboratory (Wastewater Section) जल प्रयोगशाला (अपशिष्ट जल अनुभाग)
Analysis Report विश्लेषण आख्या
NABL Accreditation: ISO/IEC 17025:2017, Certificate No: TC-7723

Source of sample: Drain/STP/ETP/Other स्रोत : ड्रेन/एस टी पी/ई टी पी/अन्य
Samples collected by नमूने एकत्रित करने वाले का नाम
Date & time of sample Collection नमूने एकत्रीकरण की तिथि एवं समय
Date & time of sample receipt नमूने प्राप्ति की तिथि एवं समय
Period of sample analysis नमूने के विश्लेषण की अवधि
Sample registration no. & date नमूने की पंजीकरण सं. एवं तिथि
Test method reference परीक्षण विधि का संदर्भ
Report sent to (Name & Division) आख्या जारी की गयी (नाम एवं प्रभाग)

: E.T.P.
: Sh. Narender Sharma & Team.
: 08/10/2023
: 10/10/2023.
: 10th to 31st Oct 23.
: 178/Water/WW-11(20)/23.
: APHA/BIS. एपीएचए/बीआईएस
: R.D Chandigarh

Report No.: आख्या सं.: WWL/OCT/178/2023
Issue Date :जारी करने की तिथि : 06/11/2023
LIMS : WATER/WW/2324/SR 00088

S. No	Sample Code	Sample No.	pH	COD	BOD	TSS	TDS	Oil & Grease
1.	F P I -1	1781	6.6	27197	14300	37537	4772	-
2.	F P I -2	1782	6.8	3154	1567	234	3968	BDL
3.	B D H -2	1784	8.5	154	43	11	876	BDL
4.	B D H -1	1785	7.3	7168	3150	2507	1576	07
5.	S J D -1	1786	6.1	4875	2450	262	2220	07
6.	S J D -2	1787	6.1	883	432	BDL	776	BDL
7.	J T W -1	1788	4.9	2343	1040	144	564	BDL
8.	J T W -2	1789	7.6	152	45	BDL	82	BDL
9.	A M D -1	1790	4.8	2263	857	94	184	BDL
10.	A M D -2	1791	6.8	118	42	BDL	25	BDL

Note: All the concentrations are expressed in mg/l except pH & conductivity in $\mu\text{s}/\text{cm}$ (@ 25°C). **नोट:** पीएच के अतिरिक्त सभी सांद्रता मिग्रा/ली. में व्यक्त की गई हैं।

Statement: कथन:

- The results relate only to the samples tested. परिणाम केवल जांचे गए नमूनों से संबंधित है।
- The report shall not be reproduced except in full without approval of the laboratory पूर्ण रिपोर्ट के अतिरिक्त प्रयोगशाला के अनुमोदन के बिना आख्या की प्रतिकृति नहीं की जायेगी।
- BDL & Test methods are mentioned on back side of this report. बी डी एल एवं परीक्षण विधि आख्या के अंत में दिए गए हैं।
- Samples will be retained only for one week after receipt of Report. संबंधित आख्या जारी होने के बाद नमूने केवल एक सप्ताह तक ही सुरक्षित रखे जाएंगे।

(Signature)
(Vijay Laxmi)
Analyst

(Signature)
(S.M.Bilal)
Supervisor & Reviewer

(Signature)
(Dr.K. Ranganathan)
D.H. Water Lab

DOC: CB/CL/QR/7.8/WWL- 03	Issue No: 01	Amendment No: 04	Issue Date: 17.09.2015	Amendment date : 19.03.2021	Page: 01 of 01
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B. WATER LABORATORY					
S. No.	Products/ Material of test	Specific Tests Performed	Test Method / Standard against which tests are performed	Range of Testing/ Limit of Detection	Uncertainty of Measurement
b.	Waste Water	Conductivity	APHA 2510 – B, 23 rd Ed. 2017	1-40,000 μ mhos/cm	1404 \pm 18.17 μ mhos/cm
		Total Suspended solids	APHA 2540 D, 23 rd Ed. 2017	10 – 15,000 mg/l	197 \pm 18.76 mg/l
		Total Solids	APHA 2540 B, 23 rd Ed. 2017	10 – 20,000 mg/l	581 \pm 9.22mg/l
		Total Dissolved Solids	APHA 2540 C, 23 rd Ed. 2017	10 -1,00,000 mg/l	762 \pm 15 mg/l
		Chemical Oxygen Demand	APHA 5220 B, 23 rd Ed. 2017.	05 – 90,000 mg/l	244.8 \pm 9.5 mg/l
		Bio – chemical Oxygen Demand	APHA 5210 B, 23 rd Ed. 2017, 4500 OC, (5 days at 20 ^o C), IS-3025 part 44:1993, BOD (3 Days at 27 ^o C).	01 – 60,000 mg/l	166.8 \pm 14.31 mg/l
		Oil & Grease	APHA 5520 B, 23 rd Ed. 2017	5 -200 mg/l	21.14 \pm 5.28 mg/l
		Phosphate – P	APHA 4500 – PD, 23 rd Ed. 2017.	0.05 – 10 mg/l	0.209 \pm 0.023 mg/l
		Chloride	APHA 4500 – Cl B, 23 rd Ed. 2017.	5 - 2000 mg/l	100 \pm 8.2 mg/l
		pH	APHA 4500 H ⁺ - B, 23 rd Ed. 2017	2 - 14	7.0 \pm 0.1
		NH ₃ -N	APHA 4500 NH ₃ – B&C, 23 rd Ed. 2017	1-100 mg/l	78.2 \pm 3.9 mg/l
Cr ⁺⁶	APHA 3500 Cr– B, 23 rd Ed. 2017	0.1- 10 mg/l	0.283 \pm 0.03 mg/l		



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Central Pollution Control Board केंद्रीय प्रदूषण नियंत्रण बोर्ड
Parivesh Bhawan, East Arjun Nagar, Delhi-110 032
परिवेश भवन, ईस्ट अर्जुन नगर, दिल्ली-110 032

Water Laboratory (Wastewater Section) जल प्रयोगशाला (अपशिष्ट जल अनुभाग)
Analysis Report विश्लेषण आख्या

Source of sample: Drain/STP/ETP/Other : ड्रेन/एस टी पी/ई टी /अन्य : E.T.P.
Samples collected by नमूने एकत्रित करने वाले का नाम : Sh. Narendra Sharma & Team.
Date & time of sample Collection नमूने एकत्रीकरण की तिथि एवं समय : 08/10/2023.
Date & time of sample receipt नमूने प्राप्ति की तिथि एवं समय : 10/10/2023
Period of sample analysis नमूने के विश्लेषण की अवधि : 10th to 31st Oct 23
Sample registration no. & date नमूने की पंजीकरण सं. एवं तिथि : 178/Water/WW-11(20)/23.
Test method reference परीक्षण विधि का संदर्भ : APHA/BIS. एपीएचए/बीआईएस
Report sent to (Name & Division)आख्या जारी की गयी (नाम एवं प्रभाग) : R. D. Chandigarh.

Report No. : आख्या सं. : WWL/OCT/178/23
Issue Date : जारी करने की तिथि : 31/10/2023
LIMS : WATER/WW/2324/SR00088

S. No	Sample Code	Sample No.	Color	MLSS	MLVSS
1.	F P I -1	1781	BDL<05	-	-
2.	F P I -2	1782	BDL<05	-	-
3.	F P I -3	1783	-	16695	9533
4.	B D H -2	1784	BDL<05	-	-
5.	B D H -1	1785	BDL<05	-	-
6.	S J D -1	1786	BDL<05	-	-
7.	S J D -2	1787	BDL<05	-	-
8.	J T W -1	1788	BDL<05	-	-
9.	J T W -2	1789	BDL<05	-	-
10.	A M D -1	1790	BDL<05	-	-
11.	A M D -2	1791	BDL<05	-	-

Note: All the concentrations are expressed in mg/l except pH & color in color unit. **नोट:** पीएच के अतिरिक्त सभी सांद्रता मिग्रा/ली. में व्यक्त की गई हैं।

Statement: कथन:

- The results relate only to the samples tested. परिणाम केवल जांचे गए नमूनों से संबंधित है।
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(U.S. Mishra)

Analyst

(S.M. Bilal)





Supervisor & Reviewer





(Dr. K. Ranganathan)



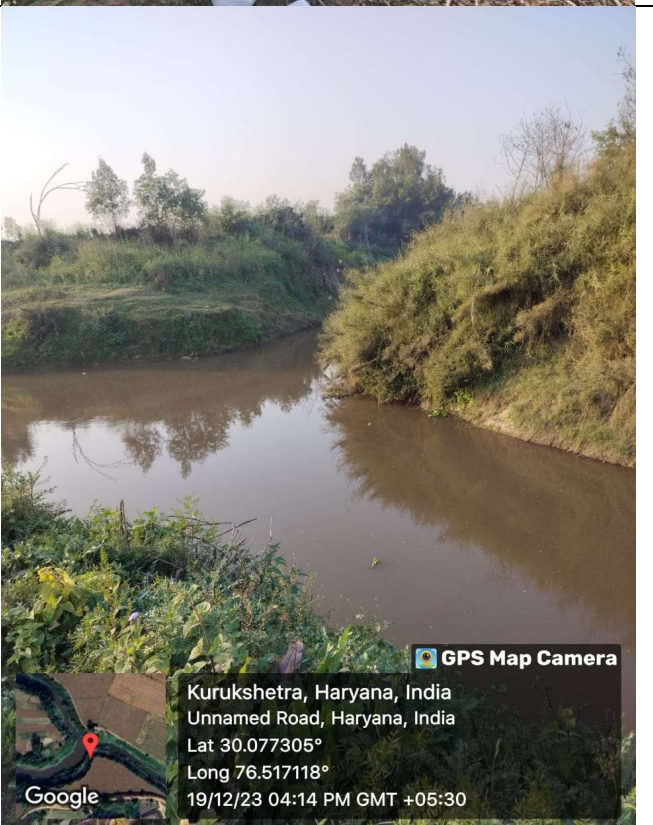
D.H. Water Lab

DOC: CB/CL/QR/7.8/WWL- 03 Issue No: 01 Amendment No: 04 Issue Date: 17.09.2015 Amendment date : 19.03.2021 Page: 01 of 01

Major Sources of contributing Water pollution in River Markanda and its Tributaries:-

S.NO	Name of Drain	BOD (mg/L)	Flow (In MLD)	Pollution (BOD) Load contributing in the River (Kg/Day)	Site Photographs
1.	Jattan Walla Nallah carrying the untreated domestic effluent generating from Kala Amb area of State of Haryana and Himachal Pradesh both and Industrial effluent generating from industries located in Kala Amb area of Himachal Pradesh and further merging into River Markanda at Village Dera, Haryana at adjoining border area of both of the States	380	12.50	4750	
2.	Salani Khadd Rivulet, Kala Amb, HP	111		HPSPCB asserted that 12 monthly flow measurement not carried out to derive average flow. However, Real time online flow and water quality measurement system proposed by Jal Shakti Vibhag at interstate border and the proposal is under process.	
3.	Rampur Jattan drain near Radha Swami SatsangBhawan, Kala Amb area of HP	56		HPSPCB asserted that 12 monthly flow measurement not carried out to derive average flow.	
4.	Drain adjoining to M/sVashisth Chemicals, Kala Amb carrying effluent from Kala Amb area of HP	567		HPSPCB asserted that 12 monthly flow measurement not carried out to derive average flow.	

5.	Drain carrying domestic effluent of Officer Colony, Kala Amb, Haryana	325	0.60	195	
6.	Drain carrying domestic effluent of Navjot Colony, Kala Amb Haryana	268	0.54	144.72	
7.	Drain carrying domestic effluent of Gadauli Village Drain and further merging into River Markanda at Gadauli Village, Ambala, Haryana	65	0.91	59.15	 <p> GPS Map Camera Gadauli, Haryana, India 8053430547 ramkumar Gadauli Haryana Jugubi, Gadauli, Haryana 000135, India Lat 30.37976° Long 77.166206° 11/10/23 12:36 PM GMT +05:30 </p>
8.	Combined Drains carrying domestic effluent from Village Malikpur, Kurukshetra before merging into River Markanda (Drain no. 1 & 2)	92	0.2	18.4	

9.	Drain carrying domestic effluent from Village Jhansa, Kurukshetra before merging into River Markanda	102	0.45	45.9	
10.	Cunnette Drain carrying domestic and Industrial effluent of Ambala Cantt. (after merging with mahesh Nagar link drain) before merging into River Tangrinear Mahesh Nagar, Ambala Sadar	199	85	16915	
11.	River Tangri carrying Shahpur Drain ,Machhonda Drain & Jodha Nallah generating from urban area of Ambala towns and exiting the State of Punjab and further merging into River Markanda.	11	93	1023	

Sampling Location- Salani Khad Near Bridge NH7 Moginand Kala Amb

Year	2023					
Sr No	Month	Parameters				Class of Water
		pH	DO (mg/l)	BOD (mg/l)	TC (MPN/100 ml)	
1	January	7.87	8.7	2.8	920	C
2	February	7.42	8.3	2.8	920	C
3	March	8.08	7.9	2.6	920	C
4	April	7.98	7.6	2.4	350	B
5	May	Source Dried				
6	June	Source Dried				
7	July	7.41	7.2	2.1	540	C
8	August	8.38	7.4	2.2	280	B
9	September	8.02	7.5	1.7	220	B
10	October	8.14	7.7	1.7	350	B
11	November	7.84	7.8	1.5	220	B
12	December	7.83	7.8	1.4	350	B

Year	2022					
Sr No	Month	Parameters				Class of Water
		pH	DO (mg/l)	BOD (mg/l)	TC (MPN/100 ml)	
1	January	7.89	7.1	1.3	280	B
2	February	8.07	6.9	1.3	220	B
3	March	7.22	7.1	2	220	B
4	April	7.77	6.7	1.7	350	B
5	May	Source Dried				
6	June	Source Dried				
7	July	7.92	7.4	2.3	350	B
8	August	7.82	6.5	2.3	280	B
9	September	7.86	7.5	1.8	220	B
10	October	7.76	7.5	2.4	430	B
11	November	7.94	7.9	2.8	540	C
12	December	7.76	8.8	2.7	920	C

Year	2021					
Sr No	Month	Parameters				Class of Water
		pH	DO (mg/l)	BOD (mg/l)	TC (MPN/100 ml)	
1	January	7.6	8.2	2	210	B
2	February	7.82	8.2	1	94	B
3	March	7.53	7.1	1.9	170	B
4	April	7.7	7.1	2.1	220	B

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5	May	Source Dried				
6	June	7.8	7.2	1.8	170	B
7	July	7.29	7.1	3.8	280	B
8	August	7.82	7.2	2.2	170	B
9	September	7.86	7.3	1.2	280	B
10	October	7.72	7.5	1.3	220	B
11	November	7.82	7.4	1.3	130	B
12	December	7.99	7.3	1.4	280	B

Year	2020	Parameters				
Sr No	Month	pH	DO (mg/l)	BOD (mg/l)	TC (MPN/100 ml)	Class of Water
1	January	7.58	8.2	0.7	46	A
2	February	7.23	8	0.8	41	A
3	March	7.09	8.1	0.9	43	A
4	April	7.62	7.9	0.5	38	A
5	May	7.67	8	0.6	39	A
6	June	7.76	7.8	1	40	A
7	July	7.51	7.5	0.6	38	A
8	August	7.76	7	1.7	170	B
9	September	7.48	6.5	1.2	170	B
10	October	7.57	6.4	1.4	170	B
11	November	7.65	6.2	1.8	140	B
12	December	7.87	6.8	2.4	170	B

Year	2019	Parameters				
Sr No	Month	pH	DO (mg/l)	BOD (mg/l)	TC (MPN/100 ml)	Class of Water
1	January	8.02	8.5	1.5	41	A
2	February	7.99	7.8	1.3	63	B
3	March	8.11	8.9	0.7	46	A
4	April	8.2	7.8	0.8	58	B
5	May	Source dried				
6	June	Source dried				
7	July	Source dried				
8	August	7.72	6.5	0.6	120	B
9	September	7.65	6.5	0.6	47	A
10	October	7.24	8	0.5	43	A
11	November	7.6	8.5	0.8	39	A
12	December	6.96	7	0.6	33	A