

**BEFORE THE NATIONAL GREEN TRIBUNAL  
EASTERN ZONE KOLKATA BENCH  
Original Application No.25 of 2024/EZ.**

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Suo Motu matter In re: News item  
appearing in The Hindu Bureau  
dated 21.12.2023 entitled "6 dead,  
100 infected in suspected cholera  
outbreak in Rourkela".

..... Petitioner / Appellant

Vs.

District Magistrate, Rourkela & Others .....Respondent / Defendant

**INDEX**

Sl. No.	Description of the documents	Page Nos.
1.	Additional Affidavit.	
2.	<b><u>ANNEXURE-R3/6 Colly</u></b> Photocopy of the Annexure-III and Annexure-IV of the committee report filed earlier with the Annexure – R3/5 Colly in the Board's Affidavit dtd.04.03.2024.	

SPCB Odisha, R.No.3

Through

Kolkata

Date:

**Smt Papiya Banerjee Bihani,**  
Advocates for the Respondent No.3  
(State Pollution Control Board, Odisha)  
e-mail: pbanerjeebihani@gmail.com  
Phone No.:9831493390

**BEFORE THE NATIONAL GREEN TRIBUNAL**

**EASTERN ZONE KOLKATA BENCH**

**Original Application No.25 of 2024/EZ.**

24 APR 2024

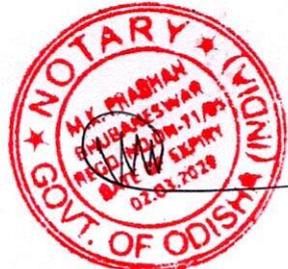
Suo Motu matter In re: News item appearing in The Hindu Bureau dated 21.12.2023 entitled "6 dead, 1000 infected in suspected cholera outbreak in Rourkela". ..... Petitioner / Appellant

Vs.

District Magistrate, Rourkela & Others .....Respondent / Defendant

**ADDITIONAL AFFIDAVIT ON BEHALF OF STATE POLLUTION CONTROL BOARD, RESPONDENT NO.3 IN COMPLIANCE TO DIRECTION DTD.25.01.2024 OF THIS HON'BLE TRIBUNAL.**

I, Dr. Kailasam Murugesan, IFS, son of late Paramasivam Kailasam aged around 56 years, at present working as Member Secretary, State Pollution Control Board, having my office at Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, P.O. Nayapalli, Bhubaneswar, Dist – Khurda, Odisha-751012, do hereby solemnly affirm and state as under:



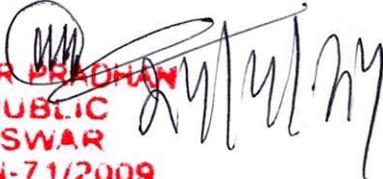
1. That I am the Member Secretary of the Respondent No.3 Board and, as such, am well-acquainted with the facts and circumstances with the case and competent to swear this affidavit.
2. That in compliance to the order dtd.25.01.2024 of this Hon'ble Tribunal the Board has filed the committee report in the affidavit dtd.04.03.2024 vide Annexure-R3/5 Colly before this Hon'ble Tribunal, which has also been taken note of by this Hon'ble Tribunal in their order dtd.07.03.2024 at para-1.
3. That it is humbly submitted that in the report of the committee annexed as Annexure-R3/5 Colly in the affidavit dtd.04.03.2024 under the heading "Other Observations", the Analysis Reports have been annexed as Annexure-III and Annexure-IV respectively. But inadvertently, both the Annexure-III and Annexure-IV have been combined together and marked as Annexure-III. For proper appreciation, now the Analysis Reports referred to in the committee report vide Annexure-III and Annexure-IV have been separated and annexed with this affidavit and marked as ANNEXURE – R3/6 Colly.



4. That it is further humbly submitted that the Hon'ble Tribunal may consider the aforesaid submissions / grounds and treat Annexure-R3/6 Colly as a part of the committee report, wherein the Analysis Reports have been referred to as Annexure-III and Annexure-IV respectively.
5. That this affidavit is filed in order to bring on record the Analysis Report relied upon in the committee report as Annexure-III and Annexure-IV respectively.
6. That the Respondent No.3 Board craves the leave of this Hon'ble Tribunal to file further affidavit if necessary.
7. That the annexure annexed to the present affidavit is true and correct copy of its original.
8. That the contents of the above paragraphs are true and correct to the best of my knowledge, as derived from the official records, and that nothing material has been concealed therefrom.



  
**DEPONENT**  
Member Secretary  
State Pollution Control Board  
Odisha, Bhubaneswar

  
 MANJULA KUMAR PRADHAN  
 NOTARY PUBLIC  
 BHUBANESWAR  
 REGD.NO.ON-71/2009  
 PH:-9437627119 (M)

**VERIFICATION:**

I, the above named deponent, do hereby verify that the contents of the above affidavit are true and correct to the best of my knowledge, as derived from official records, and that nothing material has been concealed therefrom.

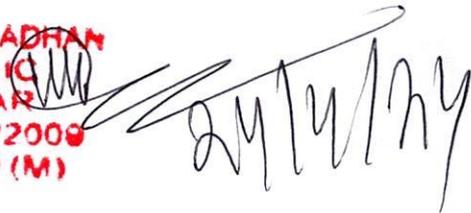
Verified at Bhubaneswar on this the 24<sup>th</sup> day of April, 2024.



**DEPONENT**  
 Member Secretary  
 State Pollution Control Board  
 Odisha, Bhubaneswar

**SWORN BEFORE ME**

MANJULA KUMAR PRADHAN  
 NOTARY PUBLIC  
 BHUBANESWAR  
 REGD.NO.ON-71/2009  
 PH:-9437627119 (M)





ANNEXURE-R3/6 Colly.Annexure-III

Oct, 2023

Annexure-III



FAX : 2562822/2560955  
 TEL : 2564033/2563294  
 EPABX : 2561909/2562847  
 E-mail : [paribesh1@ospeboard.org](mailto:paribesh1@ospeboard.org)  
 Website : [www.ospeboard.org](http://www.ospeboard.org)

## STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]

Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,

Bhubaneswar - 751 012

(CENTRAL LABORATORY)

No. 523 /

VI-SC (LEM) Proj-321/22-23

Dt. 09.01.2024 /

By email

To

The Regional Officer,  
 State Pollution Control Board, Odisha,  
 Rourkela

Sub : Test Reports of water sample received under NWMP for the month of October, 2023

Ref : Your letter No. 4340 dated 10.10.2023

Sir,

With reference to the above cited letter, please find enclosed herewith the test reports of water samples submitted to the Central Laboratory on 11.10.2023, collected under NWMP under your jurisdiction, for the month of October, 2023.

Encl : (i) NS/357/11/2023  
 (ii) NS/358/11/2023

Yours faithfully,

*N. Mahanta*  
 Chief Env. Scientist (Lab.)



## Annexure-III

Page 2 of 5

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits Applicable for Sl.No (NS/Oct-23/SW/154 - NS/Oct-23/SW/163)			Test Method	NS/Oct- 23/SW/154	NS/Oct- 23/SW/155
		IS:2296- 1982,Class- 'C'	IS:2296- 1982,Class- 'B'	G.S.R.742(E) dt. 25.09.2000***		Sundargarh	Sankha U/S
						Results	
15.	Boron (B), mg/L	-	-	-	4500-B-B APHA, 24 <sup>th</sup> Edn., 2023	0.190	0.106
16.	Sodium Absorption Ratio (SAR)	-	-	-	IS 2296 (1982)	0.53	0.42
17.	Percentage Sodium (% Na)	-	-	-		27.06	24.14
18.	Chloride (Cl <sup>-</sup> ), mg/L	600,max	-	-	4500-Cl B. APHA, 24 <sup>th</sup> Edn., 2023	8.0	6.0
19.	Sulphate (SO <sub>4</sub> <sup>2-</sup> ),mg/L	400,max	-	-	4500-SO <sub>4</sub> <sup>2-</sup> E, APHA, 24 <sup>th</sup> Edn., 2023	9.54	25.54
20.	Total Dissolved Solids (TDS), mg/L	1500,max	-	-	2540 C, APHA, 24 <sup>th</sup> Edn., 2023	88	84
21.	Total Fixed Solids (TFS), mg/L	-	-	-	2540 E, APHA, 24 <sup>th</sup> Edn., 2023	72	68
22.	Ammonical Nitrogen (NH <sub>3</sub> -N) mg/L	-	-	-	4500-NH <sub>3</sub> -B followed by 4500- NH <sub>3</sub> -C, APHA, 24 <sup>th</sup> Edn., 2023	0.56	1.12
23.	Total Kjeldahl Nitrogen (TKN), mg/L	-	-	-	4500-Norg C. APHA, 24 <sup>th</sup> Edn., 2023	NA	NA
24.	Nitrite-N (NO <sub>2</sub> <sup>-</sup> - N), mg/L	-	-	-	4500-NO <sub>2</sub> <sup>-</sup> -B, APHA, 24 <sup>th</sup> Edn., 2023	<0.02	<0.02
25.	Nitrate-N (NO <sub>3</sub> <sup>-</sup> - N), mg/L	-	-	-	4500 NO <sub>3</sub> <sup>-</sup> - E APHA, 24 <sup>th</sup> Edn., 2023	0.373	0.319
26.	Nitrate (NO <sub>3</sub> <sup>-</sup> ), mg/L	50,max	-	-		1.652	1.411
27.	Phosphate-P (PO <sub>4</sub> <sup>3-</sup> - P), mg/L	-	-	-	4500-P-D APHA, 24 <sup>th</sup> Edn., 2023	< 0.05	< 0.05
28.	Turbidity, NTU	-	-	-	2130 B, APHA, 24 <sup>th</sup> Edn., 2023	21	31
29.	Fluoride (F <sup>-</sup> ), mg/L	1.5,max	1.5,max	-	4500-F-C, APHA, 24 <sup>th</sup> Edn., 2023	0.15	0.14
30.	Total Suspended Solids (TSS), mg/L	-	-	-	2540-D, APHA, 24 <sup>th</sup> Edn., 2023	24	37
31.	Hexavalent Chromium (Cr(VI), mg/L)	0.05,max	-	-	3500-Cr-B APHA, 24 <sup>th</sup> Edn., 2023	0.004	0.007
32.	Total Coliform (TC), MPN/100 ml	5000,max	500,max	-	9221-B APHA, 24 <sup>th</sup> Edn., 2023	1300	2400
33.	Faecal Coliform (FC), MPN/ 100 ml	-	-	500 (desirable) 2500 (permissible)	9221-E, APHA, 24 <sup>th</sup> Edn., 2023	330	790
34.	Fecal StreptoCocci (FS), MPN/100ml	-	-	100 (desirable) 500 (permissible)	9230 B, APHA, 24 <sup>th</sup> Edn., 2023	NA	NA
35.	Free Ammonia-N, mg/L	-	-	-	IS 2488 Part 4, 1974	0	0

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.../2023

*Handwritten signature*  
10/11/2023

*Handwritten signature*  
15/11/23

(Cont..)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits Applicable for Sl.No (NS/Oct-23/SW/154 - NS/Oct-23/SW/163)			Test Method	NS/Oct- 23/SW/154	NS/Oct- 23/SW/155
		IS:2296- 1982,Class- 'C'	IS:2296- 1982,Class- 'B'	G.S.R.742(E) dt. 25.09.2000***		Sundargarh	Sankha U/S
						Results	
36.	Iron (Fe), mg/L	-	-	-	3500Fe-B, APHA, 24 <sup>th</sup> Edn., 2023	1.031	1.786
37.	Mercury(Hg),mg/L	-	-	-	3112B, APHA, 24 <sup>th</sup> Edn., 2023	0.00031	0.00046
38.	Total Chromium (T.Cr), mg/L	-	-	-	3030G followed by 3500 Cr-B, APHA 23 <sup>rd</sup> Edn., 2017	0.006	0.019

Sl. No.	Parameter, Unit	NS/Oct- 23/SW/156	NS/Oct- 23/SW/157	NS/Oct- 23/SW/158	NS/Oct- 23/SW/159	NS/Oct- 23/SW/160	NS/Oct- 23/SW/161	NS/Oct- 23/SW/162	NS/Oct- 23/SW/163
		Koel U/s	Panposh U/s	Panposh D/s	Rourkela D/s Jalda	Rourkela FD/s Attaghat	Rourkela FD/s Birtola	Bonalgarh	Guradih Nallah
Results									
1	pH	6.8	6.9	6.6	6.7	6.8	6.9	7.1	7.1
2.	Electrical Conductivity (EC), $\mu$ S/cm	140	126	270	176	174	140	138	450
3.	Dissolved Oxygen (DO), mg/L	7.8	7.1	7.0	6.7	6.1	7.9	6.8	6.8
4.	Biochemical Oxygen Demand (BOD), mg/L	1.3	1.5	4.8	4	1.8	1.5	1.9	5.7
5.	Chemical Oxygen Demand (COD),mg/L	8.0	8.0	16.0	16.0	12.0	12.0	12.0	32.0
6	Total Alkalinity (T. Alk.), mg/L	40	44	56	56	52	48	44	140
7.	Phenolphthalein Alkalinity (P. Alk.),mg/L	<5	<5	<5	<5	<5	<5	<5	<5
8	Total Hardness (TH), mg CaCO <sub>3</sub> /L	52	44	80	60	60	52	48	152
9.	Calcium Hardness (CaH), mg CaCO <sub>3</sub> /L	36	32	60	40	40	36	32	116
10.	Calcium (Ca), mg/L	14.43	12.83	24.05	16.03	16.03	14.43	12.83	46.49
11.	Magnesium Hardness (MgH), mg CaCO <sub>3</sub> /L	16	12	20	20	20	16	16	36
12.	Magnesium (Mg), mg/L	3.89	2.92	4.86	4.86	4.86	3.89	3.89	8.75
13.	Sodium (Na) , mg/L	6.00	6.27	12.64	7.57	8.24	6.14	5.98	26.35
14	Potassium (K), mg/L	1.48	1.57	6.32	2.73	2.48	1.58	1.61	14.70
15.	Boron (B), mg/L	0.130	0.139	0.168	0.182	0.202	0.110	0.096	0.389
16.	Sodium Absorption Ratio (SAR)	0.36	0.41	0.61	0.42	0.46	0.37	0.38	0.93
17.	Percentage Sodium (% Na)	19.49	22.86	23.78	20.58	22.09	19.81	20.62	25.12

D.H. *[Signature]*

*[Signature]*  
10.11.2023

*[Signature]* (Cont..)

Sl. No.	Parameter, Unit	NS/Oct-23/SW/156	NS/Oct-23/SW/157	NS/Oct-23/SW/158	NS/Oct-23/SW/159	NS/Oct-23/SW/160	NS/Oct-23/SW/161	NS/Oct-23/SW/162	NS/Oct-23/SW/163
		Koel U/s	Panposh U/s	Panposh D/s	Rourkela D/s Jalda	Rourkela FD/s Attaghat	Rourkela FD/s Birtola	Bonaigarh	Guradih Nallah
Results									
18.	Chloride (Cl <sup>-</sup> ), mg/L	6.0	6.0	12.0	8.0	10.0	6.0	6.0	32.0
19.	Sulphate (SO <sub>4</sub> <sup>2-</sup> ), mg/L	27.36	16.27	44.00	26.54	20.29	15.91	12.64	51.81
20.	Total Dissolved Solids (TDS), mg/L	96	84	156	112	108	84	80	288
21.	Total Fixed Solids (TFS), mg/L	84	64	128	92	92	72	64	236
22.	Ammonical Nitrogen (NH <sub>3</sub> -N) mg/L	0.56	0.56	1.68	1.12	0.56	0.56	0.56	2.24
23.	Total Kjeldahl Nitrogen (TKN), mg/L	NA	NA	NA	NA	NA	NA	NA	NA
24.	Nitrite-N (NO <sub>2</sub> <sup>-</sup> - N), mg/L	<0.02	0.030	0.189	0.119	0.350	<0.02	<0.02	0.274
25.	Nitrate-N (NO <sub>3</sub> <sup>-</sup> - N), mg/L	1.296	<0.3	3.421	0.644	0.462	<0.3	0.322	6.969
26.	Nitrate (NO <sub>3</sub> <sup>-</sup> ), mg/L	5.739	<1.329	15.150	2.854	2.044	<1.329	1.427	30.861
27.	Phosphate-P (PO <sub>4</sub> <sup>3-</sup> - P), mg/L	<0.05	<0.05	0.061	<0.05	<0.05	<0.05	<0.05	0.097
28.	Turbidity, NTU	55	32	50	60	50	33	45	6.5
29.	Fluoride (F <sup>-</sup> ), mg/L	0.16	0.12	0.13	0.16	0.17	0.32	0.28	0.24
30.	Total Suspended Solids (TSS), mg/L	76	29	90	113	101	81	77	26
31.	Hexavalent Chromium (Cr(VI)), mg/L	0.006	0.006	0.009	0.010	0.012	0.004	0.009	0.006
32.	Total Coliform (TC), MPN/100 ml	1700	2400	54000	22000	3500	790	2800	>160000
33.	Faecal Coliform (FC), MPN/100 ml	790	490	17000	7900	460	170	1300	35000
34.	Faecal Streptococci (FS), MPN/100ml	NA	NA	70	49	17	<1.8	NA	49
35.	Free Ammonia-N, mg/L	0	0	0	0	0	0	0.003	0.011
36.	Iron (Fe), mg/L	2.138	5.005	3.370	3.144	6.865	5.256	3.496	4.577
37.	Mercury(Hg), mg/L	0.00046	0.00031	0.00031	0.00046	0.00062	0.00046	0.00031	0.00046
38.	Total Chromium (T.Cr), mg/L	0.010	0.012	0.016	0.019	0.021	0.013	0.015	0.010

NA : Not analysed

\* IS:2296-1982, Class-'C' - Drinking Source with conventional treatment and disinfection .

\*\* IS: 2296-1982, Class-'B'- Outdoor bathing (organized) .

\*\*\* G.S.R.742(E) dt. 25.09.2000 - Primary water quality criteria for bathing water .

*Attaghat*  
12/02/23

*Learned*  
15.11.2023

*D. Mohapatra*  
15/11/23

(Cont...)

11. Deviation from Test Method , if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes.

(a) Date of Sampling :

(b) Method Used\* :

-----End of Test Report-----

*N. Pallanaik*  
 15/11/2022

Authorised Signatory  
 (Biological)  
 (Mrs. Nishprava Pallanaik, AES)

*Usharani Patnaik*  
 15-11-2022

Authorised Signatory  
 (Water/wastewater)  
 (Dr. (Mrs.) Usharani Patnaik, Addl. Chief Env. Scientist)

*N. Mallick*  
 15/11/22

Board Analyst  
 (Mr. Niranjan Mallick, Chief Env. Scientist)

Note :

- (i) The results stated above relate only to the items tested.  
 (ii) This report shall not be reproduced in full or in part without written approval from the In-charge of the Central Laboratory.  
 (iii) The laboratory is not responsible for the authenticity of photocopied Test Reports.  
 (iv) The Test Item will not be retained for more than 15 days from the date of issue of Test Report except in case as required by applicable Regulation.

Head Office: State Pollution Control Board, Odisha, Paribesh Bhawan, A/11B, Nilakanthnagar, Unit-VIII, Bhubaneswar - 751 012, FAX: 2562822/2560955  
 TEL: 2564033/2563294 EPAUX: 2561909/2562047. E-mail: [paribesh1@spcnboard.org](mailto:paribesh1@spcnboard.org) Website: [www.spcnboard.org](http://www.spcnboard.org)

Oct, 2023

Annexure-III



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 TEL : 2564033/2563294  
 EPABX : 2561909/2562847  
 E-mail : [paribesh1@ospceboard.org](mailto:paribesh1@ospceboard.org)  
 Website : [www.ospceboard.org](http://www.ospceboard.org)

**STATE POLLUTION CONTROL BOARD, ODISHA**  
 [DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]  
 Paribesh Bhawan, A/118 Nilakanthanagar, Unit-VII,  
 Bhubaneswar - 751 012  
 (CENTRAL LABORATORY)

No. 17113 / VI-SC (LEM) Misc 38/2023-24 Dt. 01.11.2023 /

To

The Regional Officer,  
 State Pollution Control Board, Odisha,  
 Rourkela

Sub : Test Report of wastewater sample collected from 40 MLD STP outlet of Rourkela  
 Municipal Corporation constructed by OWSSB - reg.

Ref : Your Letter No. Nil

Sir,

With reference to the above, please find enclosed herewith the test report of wastewater sample submitted to the Central Laboratory on dt. 11.10.2023 by your office, collected from 40 MLD STP outlet of Rourkela Municipal Corporation constructed by OWSSB.

Encl : OS/507/11/2023

Yours faithfully,

*[Signature]*  
 Chief Env. Scientist (Lab.)

Memo No. 17114 / dt. 01.11.2023 /

Copy forwarded to the Chief Executive Officer, WATCO, Bhubaneswar for kind information.

Encl : As above

*[Signature]*  
 Chief Env. Scientist (Lab.)

Memo No. 17115 / dt. 01.11.2023 /

Copy forwarded to the Sri Mitrasen Majhi, CES, SPC Board, Odisha Bhubaneswar for kind information.

Encl : As above

*[Signature]*  
 Chief Env. Scientist (Lab.)

OK



Nov., 2023

Annexure-III



FAX : 2562822/2560955  
 TEL : 2564033/2563294  
 EPABX : 2561909/2562847  
 E-mail : [paribesh1@ospcboard.org](mailto:paribesh1@ospcboard.org)  
 Website : [www.ospcboard.org](http://www.ospcboard.org)

## STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]

Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,

Bhubaneswar – 751 012

(CENTRAL LABORATORY)

No. 852 /

VI-SC (LEM) Proj-321/22-23

Dt. 19.01.2024 /

By email

To

The Regional Officer,  
 State Pollution Control Board, Odisha,  
 Rourkela

Sub : Test Reports of water sample received under NWMP for the month of November, 2023

Ref : Your letter No. 4790/NWMP/01 dated 14.11.2023

Sir,

With reference to the above cited letter, please find enclosed herewith the test reports of water samples submitted to the Central Laboratory on 15.11.2023, collected under NWMP under your jurisdiction, for the month of November, 2023.

Encl : NS/399/12/2023

Yours faithfully,

*V. Mahapatra*  
 19/1/24  
 Chief Env. Scientist (Lab.)



**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

E-mail: [centrallab@ospcbboard.org](mailto:centrallab@ospcbboard.org)

Annexure-III

**TEST REPORT**

Page 1 of 4

1. ULR No. : -----  
2 (i). Report No. : NS/399/12/2023  
3 (i) Date : 13.12.2023  
2 (ii) Amendment No : ---  
3 (ii) Amendment Date : ---

4. Sample Submitted By : Sri S.K.Behera, FA  
(Name and address) Regional Office, SPCB, Odisha, Rourkela

5. Reference Letter No. : 4790/NWMP/01 dated 14.11.2023

6. Date of sample receipt : 15.11.2023

7. Sample Description :

(i) Discipline : Chemical Testing  
And Biological Testing  
(Biological Testing,  
Chemical testing)

(ii) Group : Water  
(Water/ Pollution and Environment  
/ Atmospheric Pollution/ Soil and  
Hazardous Waste)

(iii) Sub Group : Surface water

(Surface water/ Ground water/ Wastewater  
Effluent/ Ambient Air/ Stack/ Soil and  
Hazardous Waste)

8. Analysis Starting Date-Analysis Completion Date : 15.11.2023 – 05.12.2023

9. If uncertainty is desired by Customer : No

10. Analysis Results :

(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits Applicable for Sl.No (NS/Nov-23/SW/121 - NS/Nov-23/SW/130)			Test Method	NS/NOV- 23/SW/121	NS/NOV- 23/SW/122
		IS:2296- 1982,Class- 'C'	IS:2296- 1982,Class- 'B'	G.S.R.742(E) dt. 25.09.2000***		Sundargarh	Sankha U/s
1.	pH	6.5-8.5	6.5-8.5	6.5-8.5	4500-H <sup>+</sup> -B, APHA, 24 <sup>th</sup> Edn., 2023	7.2	7.3
2.	Electrical Conductivity (EC), $\mu$ S/cm	-	-	-	2510 B, APHA, 24 <sup>th</sup> Edn., 2023	173	148
3.	Dissolved Oxygen (DO), mg/L	4,min	5,min	5 or more	4500-O-C, APHA, 24 <sup>th</sup> Edn., 2023	7.8	6.6
4.	Biochemical Oxygen Demand (BOD), mg/L	3,max	3,max	3 or less	IS 3025: Part 44 (2023)	1.3	1.1
5.	Chemical Oxygen Demand (COD), mg/L	-	-	-	5220 B APHA, 24 <sup>th</sup> Edn., 2023	12.0	7.8
6.	Total Alkalinity (T.Alk.), mg/L	-	-	-	2320 B, APHA, 24 <sup>th</sup> Edn., 2023	80	64
7.	Phenolphthalein Alkalinity (P.Alk.),mg/L	-	-	-		<5	<5
8.	Total Hardness (TH), mg CaCO <sub>3</sub> /L	-	-	-	2340-C, APHA, 24 <sup>th</sup> Edn., 2023	64	60
9.	Calcium Hardness (CaH), mg CaCO <sub>3</sub> /L	-	-	-	3500-Ca-B, APHA, 24 <sup>th</sup> Edn., 2023	44	40
10.	Calcium (Ca), mg/L	-	-	-		17.64	16.03
11.	Magnesium Hardness (MgH), mg CaCO <sub>3</sub> /L	-	-	-	3500-Mg-B, APHA, 24 <sup>th</sup> Edn., 2023	20	20
12.	Magnesium (Mg), mg/L	-	-	-		4.86	4.86
13.	Sodium (Na), mg/L	-	-	-	3500-Na B, APHA, 24 <sup>th</sup> Edn., 2023	11.56	7.29
14.	Potassium (K), mg/L	-	-	-	3500 K -B, APHA, 24 <sup>th</sup> Edn., 2023	1.41	1.66

*D.H. Pattnaik*  
12/23

*Pattnaik*  
12/23

*D. Pattnaik* (Cont..)

## Annexure-III

Page 2 of 4

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits Applicable for Sl.No (NS/Nov-23/SW/121 - NS/Nov-23/SW/130)			Test Method	NS/NOV- 23/SW/121	NS/NOV- 23/SW/122
		IS:2296- 1982,Class- 'C'	IS:2296- 1982,Class- 'B'	G.S.R.742(E) dt. 25.09.2000****		Sundargarh	Sankha U/s
						Results	
15.	Boron (B), mg/L	-	-	-	4500-B-B APHA, 24 <sup>th</sup> Edn., 2023	0.146	0.203
16.	Sodium Absorption Ratio (SAR)	-	-	-	IS :2296 (1982)	0.63	0.41
17.	Percentage Sodium (% Na)	-	-	-		27.64	20.33
18.	Chloride (Cl <sup>-</sup> ), mg/L	600,max	-	-	4500-Cl B, APHA, 24 <sup>th</sup> Edn., 2023	12.0	12.0
19.	Sulphate (SO <sub>4</sub> <sup>2-</sup> ),mg/L	400,max	-	-	4500-SO <sub>4</sub> <sup>2-</sup> -E, APHA, 24 <sup>th</sup> Edn., 2023	6.80	12.40
20.	Total Dissolved Solids (TDS), mg/L	1500,max	-	-	2540 C, APHA, 24 <sup>th</sup> Edn., 2023	104	96
21.	Total Fixed Solids (TFS), mg/L	-	-	-	2540 E, APHA, 24 <sup>th</sup> Edn., 2023	88	84
22.	Ammonical Nitrogen (NH <sub>3</sub> -N) mg/L	-	-	-	4500-NH <sub>3</sub> -B followed by 4500- NH <sub>3</sub> -C, APHA, 24 <sup>th</sup> Edn., 2023	0.56	0.56
23.	Total Kjeldahl Nitrogen (TKN), mg/L	-	-	-	4500-Norg C, APHA, 24 <sup>th</sup> Edn., 2023	1.68	3.36
24.	Nitrite-N (NO <sub>2</sub> <sup>-</sup> -N), mg/L	-	-	-	4500-NO <sub>2</sub> <sup>-</sup> -B, APHA, 24 <sup>th</sup> Edn., 2023	<0.02	<0.02
25.	Nitrate-N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	-	4500 NO <sub>3</sub> <sup>-</sup> -E APHA, 24 <sup>th</sup> Edn., 2023	0.762	0.384
26.	Nitrate (NO <sub>3</sub> <sup>-</sup> ), mg/L	50,max	-	-		3.376	1.701
27.	Phosphate-P (PO <sub>4</sub> <sup>3-</sup> -P), mg/L	-	-	-	4500-P-D APHA, 24 <sup>th</sup> Edn., 2023	<0.05	<0.05
28.	Turbidity, NTU	-	-	-	2130 B, APHA, 24 <sup>th</sup> Edn., 2023	2.3	1.8
29.	Fluoride (F <sup>-</sup> ), mg/L	1.5,max	1.5,max	-	4500-F-C, APHA, 24 <sup>th</sup> Edn., 2023	0.37	0.28
30.	Total Suspended Solids (TSS), mg/L	-	-	-	2540-D, APHA, 24 <sup>th</sup> Edn., 2023	21	14
31.	Total Coliform (TC), MPN/100 ml	5000,max	500,max	-	9221-B APHA, 24 <sup>th</sup> Edn., 2023	3300	1400
32.	Faecal Coliform (FC), MPN/ 100 ml	-	-	500 (desirable) 2500 (permissible)	9221-E, APHA, 24 <sup>th</sup> Edn., 2023	1700	490
33.	Fecal StreptoCocci (FS), MPN/100ml	-	-	100 (desirable) 500 (permissible)	9230 B, APHA, 24 <sup>th</sup> Edn., 2023	NA	NA
34.	Free Ammonia-N, mg/L	-	-	-	IS 2488: Part 4, 1974	0.006	0.007
35.	Saprobic Index (SI)	-	-	-	Bio monitoring of water bodies using benthic macro invertebrates CPCB	NA	NA
36.	Diversity Index (DI)	-	-	-		NA	NA
37.	Class	-	-	-		NA	NA

DH. 7

Ganesh  
13.12.2023W. D. Mallik  
13/12/23 (Cont..)

Sl. No.	Parameter, Unit	NS/NOV-23/SW/123	NS/NOV-23/SW/124	NS/NOV-23/SW/125	NS/NOV-23/SW/126	NS/NOV-23/SW/127	NS/NOV-23/SW/128	NS/NOV-23/SW/129	NS/NOV-23/SW/130
		Koel U/s	Panposh U/s	Panposh D/s	Rourkela D/s Jaldia	Rourkela FD/s Attaghat	Rourkela FD/s Birtola	Bonaigarh	Guradih Nallah
Results									
1.	pH	7.2	7.3	7.3	7.4	7.4	7.5	7.5	7.6
2.	Electrical Conductivity (EC), $\mu\text{S}/\text{cm}$	203	172	410	222	230	204	195	430
3.	Dissolved Oxygen (DO), mg/L	7.3	6.6	6.5	7.2	7.8	8.0	8.5	6.8
4.	Biochemical Oxygen Demand (BOD), mg/L	1.2	1.5	4.3	4	2.8	2	1.5	5.7
5.	Chemical Oxygen Demand (COD), mg/L	7.8	7.8	31.0	27.0	16.0	12.0	12.0	39.0
6.	Total Alkalinity (T. Alk.), mg/L	92	72	72	76	72	76	84	84
7.	Phenolphthalein Alkalinity (P. Alk.), mg/L	<5	<5	<5	<5	<5	<5	<5	<5
8.	Total Hardness (TH), mg $\text{CaCO}_3/\text{L}$	80	68	136	76	80	88	92	140
9.	Calcium Hardness (CaH), mg $\text{CaCO}_3/\text{L}$	60	44	96	56	52	56	64	112
10.	Calcium (Ca), mg/L	24.05	17.64	38.48	22.44	20.84	22.44	25.65	44.89
11.	Magnesium Hardness (MgH), mg $\text{CaCO}_3/\text{L}$	20	24	40	20	28	32	28	28
12.	Magnesium (Mg), mg/L	4.86	5.83	9.72	4.86	6.80	7.78	6.80	6.80
13.	Sodium (Na), mg/L	8.85	8.50	30.70	11.31	11.37	9.19	9.09	34.94
14.	Potassium (K), mg/L	1.57	1.78	22.20	4.41	3.95	2.39	2.33	14.20
15.	Boron (B), mg/L	0.236	0.222	0.288	0.189	0.208	0.255	0.189	0.283
16.	Sodium Absorption Ratio (SAR)	0.43	0.45	1.14	0.56	0.55	0.43	0.41	1.28
17.	Percentage Sodium (% Na)	19.00	20.82	28.88	23.15	22.52	17.99	17.22	32.44
18.	Chloride ( $\text{Cl}^-$ ), mg/L	12.0	14.0	48.0	16.0	20.0	18.0	14.0	58.0
19.	Sulphate ( $\text{SO}_4^{2-}$ ), mg/L	9.10	11.00	86.00	17.40	20.80	14.30	15.10	74.50
20.	Total Dissolved Solids (TDS), mg/L	120	108	292	132	136	128	128	292
21.	Total Fixed Solids (TFS), mg/L	96	96	240	120	124	112	120	264
22.	Ammonical Nitrogen ( $\text{NH}_3\text{-N}$ ), mg/L	0.56	0.56	1.68	0.56	0.56	0.56	0.56	2.24
23.	Total Kjeldahl Nitrogen (TKN), mg/L	4.48	2.8	4.48	3.92	1.68	2.8	2.8	5.6
24.	Nitrite-N ( $\text{NO}_2^- \text{-N}$ ), mg/L	<0.02	<0.02	<0.02	0.892	0.507	<0.02	0.046	0.442

*P. H. ...*

*U. ... 12.12.2023*

*P. ... 19/12/23*

(Cont..)

Sl. No.	Parameter, Unit	NS/NOV-23/SW/123	NS/NOV-23/SW/124	NS/NOV-23/SW/125	NS/NOV-23/SW/126	NS/NOV-23/SW/127	NS/NOV-23/SW/128	NS/NOV-23/SW/129	NS/NOV-23/SW/130
		Koel U/s	Panposh U/s	Panposh D/s	Rourkela D/s Jaida	Rourkela FD/s Attaghat	Rourkela FD/s Birtola	Bonaigarh	Guradh Nallah
Results									
25.	Nitrate-N (NO <sub>3</sub> <sup>-</sup> - N), mg/L	0.396	0.442	6.194	3.411	2.363	0.598	0.629	0.728
26.	Nitrate (NO <sub>3</sub> <sup>-</sup> ), mg/L	1.753	1.959	27.432	15.104	10.464	2.646	2.784	3.222
27.	Phosphate-P (PO <sub>4</sub> <sup>3-</sup> - P), mg/L	<0.05	<0.05	0.107	0.092	<0.05	<0.05	<0.05	0.072
28.	Turbidity, NTU	1.4	1.9	55	2	1.6	1.7	2.8	6.9
29.	Fluoride (F <sup>-</sup> ), mg/L	0.22	0.22	0.36	0.34	0.26	0.23	0.33	0.78
30.	Total Suspended Solids (TSS), mg/L	20	24	140	29	25	26	20	19
31.	Total Coliform (TC), MPN/100 ml	4900	2400	54000	35000	2400	1700	1100	92000
32.	Faecal Coliform (FC), MPN/ 100 ml	2300	490	24000	13000	790	490	330	24000
33.	Fecal StreptoCocci (FS), MPN/100ml	NA	NA	320	130	13	5	NA	170
34.	Free Ammonia-N, mg/L	0.006	0.007	0.021	0.008	0.008	0.011	0.011	0.050
35.	Saprobic Index (SI)	NA	NA	5	5.33	NA	NA	NA	NA
36.	Diversity Index (DI)	NA	NA	0.65	0.86	NA	NA	NA	NA
37.	Class	NA	NA	C	C	NA	NA	NA	NA

NA : Not analysed

\* IS:2296-1982, Class-'C' – Drinking Source with conventional treatment and disinfection .

\*\* IS: 2296-1982, Class-'B'- Outdoor bathing (organized) .

\*\*\* G.S.R.742(E) dt. 25.09.2000 – Primary water quality criteria for bathing water .

11. Deviation from Test Method , if any :

12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
If Yes,

(a) Date of Sampling :

(b) Method Used\* :

-----End of Test Report-----

*Attharavik*  
13/12/2023  
Authorised Signatory  
(Biological)  
(Mrs.Nishiprava Pattanaik, AES)

*Usharani*  
13.12.2023  
Authorised Signatory  
(Water/wastewater)  
(Dr.(Mrs.) Usharani Palnaik, Addl.Chief Env.Scientist)

*N. Anjan*  
13/12/23  
Board Analyst  
(Mr. Niranjan Mallick, Chief Env.Scientist)

Note :

(i) The results stated above relate only to the items tested.

(ii) This report shall not be reproduced in full or in part without written approval from the In-charge of the Central Laboratory.

(iii) The laboratory is not responsible for the authenticity of photocopied Test Reports.

(iv) The Test Item will not be retained for more than 15 days from the date of issue of Test Report except in case as required by applicable Regulation.

Head Office: State Pollution Control Board, Udaisha, Parivesh Bhawan, A/110, Nilakanthnagar, Unit-VIII, Bhubaneswar-751 012, FAX: 256022/2560955

TEL: 2564033/2563294 EPABX: 2561909/2562047. E-mail: [parishesb1@spcb.ord](mailto:parishesb1@spcb.ord) Website: [www.spcb.ord](http://www.spcb.ord)



NOV., 2023



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 TEL : 2564033/2563294  
 EPABX : 2561909/2562847  
 E-mail : [paribesh1@ospboard.org](mailto:paribesh1@ospboard.org)  
 Website : [www.ospboard.org](http://www.ospboard.org)

**STATE POLLUTION CONTROL BOARD, ODISHA**  
 [DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]  
 Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,  
 Bhubaneswar - 751 012  
 (CENTRAL LABORATORY)

No. 18754 / VI-SC (LEM) Misc 38/2023-24 Dt. 28.11.2023 /

To

The Regional Officer,  
 State Pollution Control Board, Odisha,  
 Rourkela

Sub : Test Report of wastewater samples collected from 40 MLD STP outlet & inlet of Rourkela Municipal Corporation constructed by OWSSB - reg.

Ref : Your Letter No. Nil

Sir,

With reference to the above, please find enclosed herewith the test report of wastewater sample submitted to the Central Laboratory on dt. 15.11.2023 by your office, collected from 40 MLD STP outlet & inlet of Rourkela Municipal Corporation constructed by OWSSB.

Encl : OS/549/11/2023

Yours faithfully,

*[Signature]*  
 Chief Env. Scientist (Lab.)

Memo No. \_\_\_\_\_ / dt. \_\_\_\_\_

Copy forwarded to the Chief Executive Officer, WATCO, Bhubaneswar for kind information.

Encl : As above

Chief Env. Scientist (Lab.)

Memo No. \_\_\_\_\_ / dt. \_\_\_\_\_

Copy forwarded to the Sri Mitrasen Majhi, CES, SPC Board, Odisha Bhubaneswar for kind information.

Encl : As above

Chief Env. Scientist (Lab.)



**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

E-mail: [centrallab@ospcbboard.org](mailto:centrallab@ospcbboard.org)

**TEST REPORT**

Page 1 of 1

1. ULR No. : -----  
 2 (i). Report No. : OS/549/11/2023  
 3 (i) Date : 28.11.2023  
 2(ii). Amendment No : ---  
 3(ii) Amendment Date : ---  
 4. Sample Submitted By : Sri Sanjib Kullu , Field Asst.,,  
 (Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : Nil  
 6. Date of sample receipt : 15.11.2023  
 7. Sample Description :

(i) Discipline : Chemical Testing  
 and Biological Testing  
 (Biological Testing,  
 Chemical testing)

(ii) Group : Pollution and Environment  
 (Water/ Pollution and Environment  
 / Atmospheric Pollution/ Soil and  
 Hazardous Waste)

(iii) Sub Group : Wastewater  
 (Surface water/ Ground water/ Drinking  
 water / Wastewater/ Effluent/ Ambient Air/  
 Stack/ Soil and Hazardous Waste)

8. Analysis Starting Date-Analysis Completion Date : 15.11.2023 – 24.11.2023  
 9. If uncertainty is desired by Customer : No  
 10. Analysis Results :  
 (Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits  (G.S.R. 1265 (E) Dt.13.10.2017) *	Test Method	Samples of 40 MLD STP of Rourkela Municipal Corporation constructed by OWSSB	
				Others/ Nov - 23/ WW/1725	Others/ Nov - 23/ WW/1726
				40 MLD STP outlet of Rourkela Municipal Corporation constructed by OWSSB	40 MLD STP inlet of Rourkela Municipal Corporation constructed by OWSSB
Results					
1.	pH	6.5-9.0	4500-H* -B, APHA, 24 <sup>th</sup> Edn., 2023	7.4	7.2
2.	Total Suspended Solids (TSS), mg/L	<100	2540 D, APHA, 24 <sup>th</sup> Edn., 2023	14.0	19.0
3.	Dissolved Oxygen (DO), mg/L	-	4500-O-C, APHA, 24 <sup>th</sup> Edn., 2023	3.1	1.4
4.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	30	IS 3025: Part 44 (2023)	4.7	8.0
5.	Chemical Oxygen Demand (COD), mg/L	-	5220 B, APHA, 24 <sup>th</sup> Edn., 2023	19.0	39.0
6.	Total Coliform (TC), MPN/100 ml	-	9221-B, APHA, 24 <sup>th</sup> Edn., 2023	<1.8	>160000
7.	Fecal Coliform (FC), MPN/100 ml	<1000	9221-E, APHA, 24 <sup>th</sup> Edn., 2023	<1.8	54000

\* Effluent discharge standard for sewage treatment plants, Applicable for Sl. No. Others/Nov -23/WW/1725

11. Deviation from Test Method , if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,  
 (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Nishiprava*  
25/11/2023  
Authorised Signatory  
(Biological)

*Usharani*  
28.11.2023  
Authorised Signatory  
(Water/wastewater)

*Niranjan Mallick*  
28/11/23  
Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

(Mrs. Nishiprava Pattanaik, AES) (Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

- Note :  
 (i) The results stated above relate only to the items tested.  
 (ii) This report shall not be reproduced in full or in part without written approval from the In-charge of the Central Laboratory.  
 (iii) The laboratory is not responsible for the authenticity of photocopied Test Reports.  
 (iv) The Test Item will not be retained for more than 15 days from the date of issue of Test Report except in case as required by applicable Regulation.

DEC, 2023



FAX : 2562822/2560955  
 TEL : 2564033/2563294  
 EPABX : 2561909/2562847  
 E-mail : [paribesh1@ospboard.org](mailto:paribesh1@ospboard.org)  
 Website : [www.ospboard.org](http://www.ospboard.org)

## STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]  
 Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,  
 Bhubaneswar - 751 012  
 (CENTRAL LABORATORY)

No. 857 /

VI-SC (LEM)Proj-321/22-23

Dt. 19.01.2024

By email

To

The Regional Officer,  
 State Pollution Control Board, Odisha,  
 Rourkela

Sub : Test Reports of water sample received under NWMP for the month of December, 2023

Ref : Your letter No. 5089 dated 05.12.2023

Sir,

With reference to the above cited letter, please find enclosed herewith the test reports of water samples submitted to the Central Laboratory on 06.12.2023, collected under NWMP under your jurisdiction, for the month of December, 2023.

Encl : NS/416/12/2023

Yours faithfully,

*H. Mahapatra*  
 19/1/24  
 Chief Env. Scientist (Lab.)



OSPCB/CNL/F0718

**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

E-mail: [centrallab@ospboard.org](mailto:centrallab@ospboard.org)

**TEST REPORT**

Page 1 of 4

1. ULR No. : -----
- 2 (i). Report No. : NS/416/12/2023
- 3 (i) Date : 22.12.2023
- 2 (ii) Amendment No : ---
- 3 (ii) Amendment Date : ---
4. Sample Submitted By : Sri S.K.Behera, FA  
(Name and address) Regional Office, SPCB, Odisha, Rourkela
5. Reference Letter No. : 5089 dated 05.12.2023
6. Date of sample receipt : 06.12.2023
7. Sample Description :
- (i) Discipline : Chemical Testing (ii) Group : Water  
And Biological Testing  
(Biological Testing,  
Chemical testing)
- (iii) Sub Group : Surface water  
(Surface water/ Ground water/ Wastewater  
Effluent/ Ambient Air/ Stack/ Soil and  
Hazardous Waste)
8. Analysis Starting Date-Analysis Completion Date : 06.12.2023 – 18.12.2023
9. If uncertainty is desired by Customer : No
10. Analysis Results :

(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits Applicable for Sl.No (NS/Dec-23/SW/30 - NS/Dec-23/SW/39)			Test Method	NS/Dec- 23/SW/30	NS/Dec- 23/SW/31
		IS:2296- 1982,Class- 'C'	IS:2296- 1982,Class- 'B'	G.S.R.742(E) dt. 25.09.2000***		Sundargarh	Sankha U/s
						Results	
1.	pH	6.5-8.5	6.5-8.5	6.5-8.5	4500-H <sup>-</sup> -B, APHA, 24 <sup>th</sup> Edn., 2023	7.4	7.4
2.	Electrical Conductivity (EC), $\mu$ S/cm	-	-	-	2510 B, APHA, 24 <sup>th</sup> Edn., 2023	163	166
3.	Dissolved Oxygen (DO), mg/L	4,min	5,min	5 or more	4500-O-C, APHA, 24 <sup>th</sup> Edn., 2023	8.1	8.4
4.	Biochemical Oxygen Demand (BOD), mg/L	3,max	3,max	3 or less	IS 3025: Part 44 (2023)	1.4	1.3
5.	Chemical Oxygen Demand (COD), mg/L	-	-	-	5220 B APHA, 24 <sup>th</sup> Edn., 2023	11.0	7.3
6.	Total Alkalinity (T.Alk.), mg/L	-	-	-	2320 B, APHA, 24 <sup>th</sup> Edn., 2023	76	68
7.	Phenolphthalein Alkalinity (P.Alk.), mg/L	-	-	-		< 5	< 5
8.	Total Hardness (TH), mg CaCO <sub>3</sub> /L	-	-	-	2340-C, APHA, 24 <sup>th</sup> Edn., 2023	60	64
9.	Calcium Hardness (CaH), mg CaCO <sub>3</sub> /L	-	-	-	3500-Ca-B, APHA, 24 <sup>th</sup> Edn., 2023	40	40
10.	Calcium (Ca), mg/L	-	-	-		16.03	16.03
11.	Magnesium Hardness (MgH), mg CaCO <sub>3</sub> /L	-	-	-	3500-Mg-B, APHA, 24 <sup>th</sup> Edn., 2023	20	24
12.	Magnesium (Mg), mg/L	-	-	-		4.86	5.83
13.	Sodium (Na), mg/L	-	-	-	3500-Na B, APHA, 24 <sup>th</sup> Edn., 2023	7.85	14.80
14.	Potassium (K), mg/L	-	-	-	3500 K -B, APHA,		

## Annexure-III

Page 2 of 4

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits Applicable for Sl.No (NS/Nov-23/SW/121 - NS/Nov-23/SW/130)			Test Method	NS/Dec- 23/SW/30	NS/Dec- 23/SW/31
		IS:2296- 1982,Class- 'C'	IS:2296- 1982,Class- 'B'	G.S.R.742(E) dt. 25.09.2000***		Sundargarh	Sankha U/s
						Results	
15.	Boron (B), mg/L	-	-	-	4500-B-B APHA, 24 <sup>th</sup> Edn., 2023	0.160	0.157
16.	Sodium Absorption Ratio (SAR)	-	-	-	IS :2296 (1982)	0.44	0.80
17.	Percentage Sodium (% Na)	-	-	-		21.58	32.62
18.	Chloride (Cl <sup>-</sup> ), mg/L	600,max	-	-	4500-Cl B, APHA, 24 <sup>th</sup> Edn., 2023	8.0	18.0
19.	Sulphate (SO <sub>4</sub> <sup>2-</sup> ),mg/L	400,max	-	-	4500-SO <sub>4</sub> <sup>2-</sup> E, APHA, 24 <sup>th</sup> Edn., 2023	7.20	6.40
20.	Total Dissolved Solids (TDS), mg/L	1500,max	-	-	2540 C, APHA, 24 <sup>th</sup> Edn., 2023	96	108
21.	Total Fixed Solids (TFS), mg/L	-	-	-	2540 E, APHA, 24 <sup>th</sup> Edn., 2023	84	96
22.	Ammonical Nitrogen (NH <sub>3</sub> -N) mg/L	-	-	-	4500-NH <sub>3</sub> -B followed by 4500- NH <sub>3</sub> -C, APHA, 24 <sup>th</sup> Edn., 2023	0.56	0.56
23.	Total Kjeldahl Nitrogen (TKN), mg/L	-	-	-	4500-Norg C, APHA, 24 <sup>th</sup> Edn., 2023	4.7	5.04
24.	Nitrite-N (NO <sub>2</sub> <sup>-</sup> -N), mg/L	-	-	-	4500-NO <sub>2</sub> <sup>-</sup> -B, APHA, 24 <sup>th</sup> Edn., 2023	< 0.02	< 0.02
25.	Nitrate-N (NO <sub>3</sub> <sup>-</sup> - N), mg/L	-	-	-	4500 NO <sub>3</sub> <sup>-</sup> - E APHA, 24 <sup>th</sup> Edn., 2023	0.378	0.366
26.	Nitrate (NO <sub>3</sub> <sup>-</sup> ), mg/L	50,max	-	-		1.675	1.622
27.	Phosphate-P (PO <sub>4</sub> <sup>3-</sup> - P), mg/L	-	-	-	4500-P-D APHA, 24 <sup>th</sup> Edn., 2023	< 0.05	< 0.05
28.	Turbidity, NTU	-	-	-	2130 B, APHA, 24 <sup>th</sup> Edn., 2023	2.3	4.6
29.	Fluoride (F <sup>-</sup> ), mg/L	1.5,max	1.5,max	-	4500-F-C, APHA, 24 <sup>th</sup> Edn., 2023	0.37	0.24
30.	Total Suspended Solids (TSS), mg/L	-	-	-	2540-D, APHA, 24 <sup>th</sup> Edn., 2023	11	11
31.	Total Coliform (TC), MPN/100 ml	5000,max	500,max	-	9221-B APHA, 24 <sup>th</sup> Edn., 2023	700	2200
32.	Faecal Collform (FC), MPN/ 100 ml	-	-	500 (desirable) 2500 (permissible)	9221-E, APHA, 24 <sup>th</sup> Edn., 2023	220	790
33.	Fecal StreptoCocci (FS), MPN/100ml	-	-	100 (desirable) 500 (permissible)	9230 B, APHA, 24 <sup>th</sup> Edn., 2023	NA	NA
34.	Free Ammonia-N, mg/L	-	-	-	IS 2488: Part 4, 1974	0.008	0.008

Attanark  
22/12/2023

Leatrick  
22/12/2023

N. Akhila  
20/12/23

(Cont..)

Sl. No.	Parameter, Unit	NS/Dec-23/SW/32	NS/Dec-23/SW/33	NS/Dec-23/SW/34	NS/Dec-23/SW/35	NS/Dec-23/SW/36	NS/Dec-23/SW/37	NS/Dec-23/SW/38	NS/Dec-23/SW/39
		Koel U/s	Panposh U/s	Panposh D/s	Rourkela D/s Jajda	Rourkela FD/s Attaghat	Rourkela FD/s Birtola	Bonaigarh	Guradih Nallah
1.	pH	7.5	7.5	7.4	7.5	7.7	7.7	7.8	7.6
2.	Electrical Conductivity (EC), $\mu\text{S/cm}$	220	182	348	228	210	211	186	440
3.	Dissolved Oxygen (DO), mg/L	7.4	7.6	4.2	4.8	7.1	7.6	8.8	6.8
4.	Biochemical Oxygen Demand (BOD), mg/L	1.2	1.3	4.2	3.8	2.5	2.3	1.8	5.3
5.	Chemical Oxygen Demand (COD), mg/L	7.3	7.3	18.0	15.0	11.0	11.0	7.3	22.0
6.	Total Alkalinity (T.Alk.), mg/L	100	64	112	100	92	84	76	156
7.	Phenolphthalein Alkalinity (P.Alk.), mg/L	<5	<5	<5	<5	<5	<5	<5	<5
8.	Total Hardness (TH), mg $\text{CaCO}_3/\text{L}$	76	64	124	72	80	84	64	136
9.	Calcium Hardness (CaH), mg $\text{CaCO}_3/\text{L}$	56	44	92	52	52	56	52	100
10.	Calcium (Ca), mg/L	22.44	17.64	36.87	20.84	20.84	22.44	20.84	40.08
11.	Magnesium Hardness (MgH), mg $\text{CaCO}_3/\text{L}$	20	20	32	20	28	28	12	36
12.	Magnesium (Mg), mg/L	4.86	4.86	7.78	4.86	6.80	6.80	2.92	8.75
13.	Sodium (Na), mg/L	10.80	13.36	19.68	17.68	12.12	9.8	9.85	25.28
14.	Potassium (K), mg/L	1.80	5.22	5.84	4.12	3.54	3.18	2.94	18.20
15.	Boron (B), mg/L	0.147	0.129	0.316	0.193	0.190	0.212	0.128	0.310
16.	Sodium Absorption Ratio (SAR)	0.54	0.73	0.77	0.91	0.59	0.47	0.54	0.94
17.	Percentage Sodium (% Na)	23.07	29.13	24.55	33.22	23.76	19.50	24.01	25.65
18.	Chloride ( $\text{Cl}^-$ ), mg/L	10.0	22.0	38.0	20.0	12.0	16.0	14.0	34.0
19.	Sulphate ( $\text{SO}_4^{2-}$ ), mg/L	8.90	7.60	18.60	<5	11.40	9.40	12.20	27.30
20.	Total Dissolved Solids (TDS), mg/L	148	120	204	136	128	128	116	252
21.	Total Fixed Solids (TFS), mg/L	136	104	168	124	116	116	104	220
22.	Ammonical Nitrogen ( $\text{NH}_3\text{-N}$ ), mg/L	0.56	0.56	1.68	1.12	1.12	0.56	0.56	1.12
23.	Total Kjeldahl Nitrogen (TKN), mg/L	3.92	2.8	4.48	3.92	3.92	2.24	2.24	5.6
24.	Nitrite-N ( $\text{NO}_2^- \text{-N}$ ), mg/L	<0.02	<0.02	0.470	1.021	<0.02	0.186	0.048	0.636

Sl. No.	Parameter, Unit	NS/Dec-23/SW/32	NS/Dec-23/SW/33	NS/Dec-23/SW/34	NS/Dec-23/SW/35	NS/Dec-23/SW/36	NS/Dec-23/SW/37	NS/Dec-23/SW/38	NS/Dec-23/SW/39
		Koel U/s	Panposh U/s	Panposh D/s	Rourkela D/s Jalda	Rourkela FD/s Attaghat	Rourkela FD/s Birtola	Bonalgarh	Guradih Nallah
<b>Results</b>									
25.	Nitrate-N (NO <sub>3</sub> <sup>-</sup> - N), mg/L	0.341	0.358	0.737	1.259	2.101	1.489	0.737	1.101
26.	Nitrate (NO <sub>3</sub> <sup>-</sup> ), mg/L	1.508	1.587	3.262	5.577	9.303	6.594	3.262	4.875
27.	Phosphate-P (PO <sub>4</sub> <sup>3-</sup> - P), mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.071
28.	Turbidity, NTU	4.8	4.4	3.6	4.1	4.3	1.2	1.3	3.8
29.	Fluoride (F <sup>-</sup> ), mg/L	0.23	0.28	0.29	0.32	0.33	0.37	0.40	0.29
30.	Total Suspended Solids (TSS), mg/L	12	11	16	18	21	< 10	< 10	27
31.	Total Coliform (TC), MPN/100 ml	4900	1300	92000	35000	330	130	130	54000
32.	Faecal Coliform (FC), MPN/ 100 ml	2300	330	24000	7900	78	13	13	11000
33.	Faecal StreptoCocci (FS), MPN/100ml	NA	NA	49	23	<1.8	<1.8	NA	23
34.	Free Ammonia-N, mg/L	0.011	0.011	0.025	0.022	0.034	0.017	0.020	0.025

NA : Not analysed

- \* IS:2296-1982,Class-'C' – Drinking Source with conventional treatment and disinfection .
- \*\* IS: 2296-1982,Class-'B'- Outdoor bathing (organized) .
- \*\*\* G.S.R.742(E) dt. 25.09.2000 – Primary water quality criteria for bathing water .

11. Deviation from Test Method , if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,

(a) Date of Sampling :

(b) Method Used\* :

*P. Nath*  
 22/12/2023  
 Authorised Signatory  
 (Biological)  
 (Mrs.Nishprava Pattanaik, AES)

*Usharani*  
 22.12.2023  
 Authorised Signatory  
 (Water/Wastewater)  
 (Dr.(Mrs.) Usharani Patnaik, Addl.Chief Env.Scientist)

*N. Mallick*  
 21/12/23  
 Board Analyst  
 (Mr. Niranjan Mallick, Chief Env.Scientist)

Note :

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 TEL : 2564033/2563294 EPABX : 2561909/2562847, E-mail : paribesh1@spcbodisha.org Website : www.spcbodisha.org



Dec, 2023

FAX : 2562822/2560955  
 TEL : 2564033/2563294  
 EPABX : 2561909/2562847  
 E-mail : [paribesh1@ospcboard.org](mailto:paribesh1@ospcboard.org)  
 Website : [www.ospcboard.org](http://www.ospcboard.org)

**STATE POLLUTION CONTROL BOARD, ODISHA**  
 [DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]  
 Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,  
 Bhubaneswar - 751 012  
 (CENTRAL LABORATORY)

No. 19784 /

VI-SC (LEM) Misc 38/2023-24

Dt. 15.12.2023 /

To

✓  
 The Regional Officer,  
 State Pollution Control Board, Odisha,  
 Rourkela



Sub : Test Report of wastewater samples collected from 40 MLD STP outlet & inlet of Rourkela Municipal Corporation constructed by OWSSB - reg.

Ref : Your Letter No. Nil

Sir,

With reference to the above, please find enclosed herewith the test report of wastewater sample submitted to the Central Laboratory on dt.06.12.2023 by your office, collected from 40 MLD STP outlet & inlet of Rourkela Municipal Corporation constructed by OWSSB.

Encl : OS/608/12/2023

Yours faithfully,

*M. Mohan Kumar*  
 13/12/23  
 Chief Env. Scientist (Lab.)

Memo No. \_\_\_\_\_ / dt. \_\_\_\_\_ /

Copy forwarded to the Chief Executive Officer, WATCO, Bhubaneswar for kind information.

Encl : As above

Chief Env. Scientist (Lab.)

Memo No. \_\_\_\_\_ / dt. \_\_\_\_\_ /

Copy forwarded to the Sri Mitrasen Majhi, CES, SPC Board, Odisha Bhubaneswar for kind information.

Encl : As above

Chief Env. Scientist (Lab.)



**CENTRAL LABORATORY**  
**STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

E-mail: [centrallab@ospcboard.org](mailto:centrallab@ospcboard.org)

Annexure-III

TEST REPORT

Page 1 of 1

1. ULR No. : -----
- 2 (i). Report No. : OS/608/12/2023
- 3 (i) Date : 13.12.2023
4. Sample Submitted By : Sri S.K Behera, Field Asst.,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela
5. Reference Letter No. : Nil
6. Date of sample receipt : 06.12.2023
7. Sample Description :
- (i) Discipline : Chemical Testing and Biological Testing (Biological Testing, Chemical testing)
- (ii) Group : Pollution and Environment (Water/ Pollution and Environment / Atmospheric Pollution/ Soil and Hazardous Waste)
- (iii) Sub Group : Wastewater (Surface water/ Ground water/ Drinking water / Wastewater/ Effluent/ Ambient Air/ Stack/ Soil and Hazardous Waste)
8. Analysis Starting Date-Analysis Completion Date : 06.12.2023 – 12.12.2023
9. If uncertainty is desired by Customer : No
10. Analysis Results :  
(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits (G.S.R. 1265 (E) Dt.13.10.2017) *	Test Method	Samples of 40 MLD STP of Rourkela Municipal Corporation constructed by OWSSB	
				Others/ Dec - 23/ WW/1868	Others/ Dec - 23/ WW/1869
				40 MLD STP outlet of Rourkela Municipal Corporation constructed by OWSSB	40 MLD STP inlet of Rourkela Municipal Corporation constructed by OWSSB
Results					
1.	pH	6.5-9.0	4500-H* -B, APHA, 24 <sup>th</sup> Edn., 2023	6.6	6.5
2.	Total Suspended Solids (TSS), mg/L	<100	2540 D, APHA, 24 <sup>th</sup> Edn., 2023	<10.0	66.0
3.	Dissolved Oxygen (DO), mg/L	-	4500-O-C, APHA, 24 <sup>th</sup> Edn., 2023	7.2	<0.3
4.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	30	IS 3025: Part 44 (2023)	2.5	58.0
5.	Chemical Oxygen Demand (COD), mg/L	-	5220 B, APHA, 24 <sup>th</sup> Edn., 2023	15.0	129.0
6.	Total Coliform (TC), MPN/100 ml	-	9221-B, APHA, 24 <sup>th</sup> Edn., 2023	79	>160000
7.	Fecal Coliform (FC), MPN/100 ml	<1000	9221-E, APHA, 24 <sup>th</sup> Edn., 2023	33	>160000

\* Effluent discharge standard for sewage treatment plants, Applicable for Sl. No. Others/Dec -23/WW/1868

11. Deviation from Test Method , if any :
12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
If Yes,
- (a) Date of Sampling : (b) Method Used\* :
- (c) Name of Sampler with Designation :

-----End of Test Report-----

*Pattanaik*  
13/12/2023  
Authorised Signatory  
(Biological)

*Usharani*  
13.12.2023  
Authorised Signatory  
(Water/wastewater)

*N. Mallick*  
13/12/23  
Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

(Mrs. Nishiprava Pattanaik, AES) (Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

Note :

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iv) The Test Item will not be retained for more than 15 days from the date of issue of Test Report except in case as required by applicable Regulation.





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STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

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**TEST REPORT**

Page 1 of 1

1. ULR No. : -----
- 2 (i). Report No. : OS/100/02/2024
- 3 (i) Date : 20.02.2024
4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela
5. Reference Letter No. : 616 dt.13.02.2024
6. Date of sample receipt : 13.02.2024
7. Sample Description :
 

(i) Discipline : Chemical Testing and Biological Testing (Biological Testing, Chemical testing)	(ii) Group : Water (Water/ Pollution and Environment / Atmospheric Pollution/ Soil and Hazardous Waste)	(iii) Sub Group : Surface water (Surface water/ Ground water/ Drinking water / Wastewater/ Effluent/ Ambient Air/ Stack/ Soil and Hazardous Waste)
--	--	---
8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024
9. If uncertainty is desired by Customer : No
10. Analysis Results :  
(Attach separate sheet if necessary)

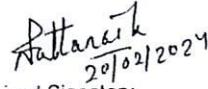
Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *	Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
				Others/ Feb - 24/ SW/269
				Baikuntha Ghat Intake point, INLET RMC
				Results
1.	Free Residual Chlorine (R.Cl), mg/L	-	4500 Cl-B, APHA, 23 <sup>rd</sup> Edn., 2017	<0.04
2.	Total Coliform (TC), MPN/100 ml	5000, max	9221-B, APHA, 23 <sup>rd</sup> Edn., 2017	1300
3.	Fecal Coliform (FC), MPN/100 ml	-	9221-E, APHA, 23 <sup>rd</sup> Edn., 2017	330

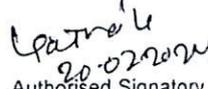
\* Tolerance limit for inland surface water subject to pollution (IS : 2296-1982), for Class 'C'  
(Drinking source with conventional treatment and disinfection)

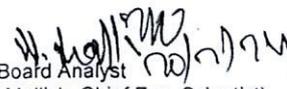
11. Deviation from Test Method , if any :
12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
If Yes,
 

(a) Date of Sampling :	(b) Method Used* :
(c) Name of Sampler with Designation :	

-----End of Test Report-----

  
 Authorised Signatory  
(Biological)  
(Mrs. Nishiprava Pattanaik, AES)

  
 Authorised Signatory  
(Water/wastewater)  
(Dr. (Mrs) Usharani Patnaik, Addl. Chief Env. Scientist)

  
 Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

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**CENTRAL LABORATORY  
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**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000007F  
 2 (i). Report No. : OS/101/02/2024  
 3 (i) Date : 20.02.2024  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :  
 (i) Discipline : Chemical Testing (ii) Group : Water (iii) Sub Group : Surface water  
(Biological Testing, (Water/ Pollution and Environment (Surface water/ Ground water/ Drinking  
Chemical testing) / Atmospheric Pollution/ Soil and water / Wastewater/ Effluent/ Ambient Air/  
Hazardous Waste) Stack/ Soil and Hazardous Waste)  
 8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19 .02.2024  
 9. If uncertainty is desired by Customer : No  
 10. Analysis Results :  
(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits * (IS : 2296-1982)	Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
				Others/ Feb - 24/SW/270 Baikuntha Ghat Koel River Main Stream Results
1.	pH	6.5-8.5	4500-H* -B, APHA, 23 <sup>rd</sup> Edn., 2017	6.7
2.	Total Suspended Solids (TSS), mg/L	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	11.0
3.	Total Dissolved Solids (TDS), mg/L	1500, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	120.0
4.	Dissolved Oxygen (DO), mg/L	4, min	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	9.4
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	3, max	IS 3025: Part 44	1.1
6.	Chemical Oxygen Demand (COD), mg/L	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	7.8
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.398
8.	Fluoride (F) mg/L	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.19

\* Tolerance limit for inland surface water subject to pollution (IS : 2296-1982), for Class 'C' (Drinking source with conventional treatment and disinfection)

11. Deviation from Test Method , if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,  
 (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Patnaik*  
20.2.2024  
Authorised Signatory  
(Water/wastewater)

*N. Mallick*  
20/2/24  
Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

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 TEL : 2564033/2563294 EPABX : 2561909/2562847. E-mail : [paribesh1@ospcbboard.org](mailto:paribesh1@ospcbboard.org) Website : [www.ospcbboard.org](http://www.ospcbboard.org)



**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

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**TEST REPORT**

Page 1 of 1

1. ULR No. : -----
- 2 (i). Report No. : OS/102/02/2024
- 2(ii). Amendment No : ---
- 3 (i) Date : 20.02.2024
- 3(ii) Amendment Date : ---
4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela
5. Reference Letter No. : 616 dt.13.02.2024
6. Date of sample receipt : 13.02.2024
7. Sample Description :
 

(i) Discipline : Chemical Testing and Biological Testing (Biological Testing, Chemical testing)	(ii) Group : Water (Water/ Pollution and Environment / Atmospheric Pollution/ Soil and Hazardous Waste)	(iii) Sub Group : Surface water (Surface water/ Ground water/ Drinking water / Wastewater/ Effluent/ Ambient Air/ Stack/ Soil and Hazardous Waste)
--	--	---
8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024
9. If uncertainty is desired by Customer : No
10. Analysis Results :  
(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *  (IS : 2296-1982)	Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
				Others/ Feb - 24/SW/270 Baikuntha Ghat Koel River Main Stream Results
1.	Free Residual Chlorine (R.Cl), mg/L	-	4500 Cl-B, APHA, 23 <sup>rd</sup> Edn., 2017	<0.04
2.	Total Coliform (TC), MPN/100 ml	5000, max	9221-B, APHA, 23 <sup>rd</sup> Edn., 2017	4900
3.	Fecal Coliform (FC), MPN/100 ml	-	9221-E, APHA, 23 <sup>rd</sup> Edn., 2017	780

\* Tolerance limit for inland surface water subject to pollution (IS : 2296-1982), for Class 'C' (Drinking source with conventional treatment and disinfection)

11. Deviation from Test Method , if any :
12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
If Yes,  
(a) Date of Sampling : (b) Method Used\* :  
(c) Name of Sampler with Designation :

-----End of Test Report-----

20/02/2024  
 Authorised Signatory  
(Biological)  
 (Mrs. Nishiprava Pattanaik, AES)

20.2.2024  
 Authorised Signatory  
(Water/wastewater)  
 (Dr. (Mrs) Usharani Patnaik, Addl. Chief Env. Scientist)

20/02/24  
 Board Analyst  
 (Mr. Niranjana Mallick, Chief Env. Scientist)

- Note :
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  - (ii) This report shall not be reproduced in full or in part without written approval from the In-charge of the Central Laboratory.
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  - (iv) The Test Item will not be retained for more than 15 days from the date of issue of Test Report except in case as required by applicable Regulation.

Head Office: State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII, Bhubaneswar - 751 012, FAX : 2562822/2560955  
 TEL: 2564033/2563294 EPABX : 2561909/2562847, E-mail: [paribesh1@ospcboard.org](mailto:paribesh1@ospcboard.org) Website: [www.ospcboard.org](http://www.ospcboard.org)



**CENTRAL LABORATORY**  
**STATE POLLUTION CONTROL BOARD, ODISHA**  
 Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
 Bhubaneswar - 751 024

E-mail: [centrallab@ospboard.org](mailto:centrallab@ospboard.org)



TC-12740

**TEST REPORT**

Page 1 of 1

1. ULR No. : TC12740240000008F  
 2 (i). Report No. : OS/103/02/2024  
 3 (i) Date : 20.02.2024  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
 (Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :  
 (i) Discipline : Chemical Testing (ii) Group : Water  
 (Biological Testing, (Water/ Pollution and Environment  
 Chemical testing) / Atmospheric Pollution/ Soil and  
 Hazardous Waste)  
 (iii) Sub Group : Drinking water  
 (Surface water/ Ground water/ Drinking  
 water / Wastewater/ Effluent/ Ambient Air/  
 Stack/ Soil and Hazardous Waste)  
 8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024  
 9. If uncertainty is desired by Customer : No  
 10. Analysis Results :

(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/DW/271
					WATCO, Koelnagar Tap Water, Supply outlet water
					Results
1.	pH	6.5-8.5	No relaxation	4500-H <sup>+</sup> -B, APHA 23 <sup>rd</sup> Edn., 2017	6.8
2.	Total Suspended Solids (TSS), mg/L	-	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	<10
3.	Total Dissolved Solids (TDS), mg/L	500, max	2000. max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	104.0
	Dissolved Oxygen (DO), mg/L	-	-	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	10.3
4.	Biochemical Oxygen Demand (BOD, 3 days at 27° C), mg/L	-	-	IS 3025: Part 44	1.6
5.	Chemical Oxygen Demand (COD), mg/L	-	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	12.0
6.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.329
7.	Fluoride (F) mg/L	1.0	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.19

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method, if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,  
 (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

20.2.2024  
 Authorised Signatory  
 (Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

Board Analyst

(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

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Head Office: State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII, Bhubaneswar - 751 012, FAX : 2562822/2560955  
 TEL: 2564033/2563294 EPABX : 2561909/2562847, E-mail : [paribesh1@ospboard.org](mailto:paribesh1@ospboard.org) Website : [www.ospboard.org](http://www.ospboard.org)



**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

E-mail: [centrallab@ospboard.org](mailto:centrallab@ospboard.org)

**TEST REPORT**

Page 1 of 1

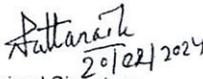
1. ULR No. : -----
- 2 (i). Report No. : OS/104/02/2024
- 2(ii). Amendment No : ---
- 3 (i) Date : 20.02.2024
- 3(ii) Amendment Date : ---
4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela
5. Reference Letter No. : 616 dt.13.02.2024
6. Date of sample receipt : 13.02.2024
7. Sample Description :
  - (i) Discipline : Chemical Testing and Biological Testing (Biological Testing, Chemical testing)
  - (ii) Group : Water (Water/ Pollution and Environment / Atmospheric Pollution/ Soil and Hazardous Waste)
  - (iii) Sub Group : Drinking water (Surface water/ Ground water/ Drinking water / Wastewater/ Effluent/ Ambient Air/ Stack/ Soil and Hazardous Waste)
8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024
9. If uncertainty is desired by Customer : No
10. Analysis Results :  
(Attach separate sheet if necessary)

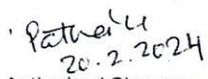
Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/ DW/271
					WATCO, Koelnagar Tap Water, Supply outlet water
					<b>Results</b>
1.	Free Residual Chlorine (R.Cl), mg/L	0.2, min	1.0, min	4500 Cl-B, APHA, 23 <sup>rd</sup> Edn., 2017	<0.04
2.	Total Coliform (TC), MPN/100 ml	Shall not be detectable in any 100 ml sample		9221-B, APHA, 23 <sup>rd</sup> Edn., 2017	<1.8(Absent)
3.	Fecal Coliform (FC), MPN/100 ml			9221-E, APHA, 23 <sup>rd</sup> Edn., 2017	<1.8(Absent)

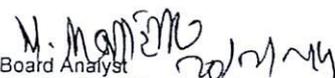
\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :
12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
If Yes,  
(a) Date of Sampling : (b) Method Used\* :  
(c) Name of Sampler with Designation :

-----End of Test Report-----

  
 Authorised Signatory  
(Biological)  
(Mrs. Nishiprava Pattanaik, AES)

  
 Authorised Signatory  
(Water/wastewater)  
(Dr. (Mrs) Usharani Patnaik, Addl. Chief Env. Scientist)

  
 Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

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TEL : 2564033/2563294 EPABX : 2561909/2562847, E-mail: [paribesh@ospboard.org](mailto:paribesh@ospboard.org) Website: [www.ospboard.org](http://www.ospboard.org)



**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

E-mail: [centrallab@ospcbboard.org](mailto:centrallab@ospcbboard.org)



**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000009F  
 2 (i). Report No. : OS/105/02/2024  
 3 (i) Date : 20.02.2024  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
 (Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :  
 (i) Discipline : Chemical Testing (ii) Group : Water (iii) Sub Group : Drinking water  
 (Biological Testing, (Water/ Pollution and Environment (Surface water/ Ground water/ Drinking  
 Chemical testing) / Atmospheric Pollution/ Soil and water / Wastewater/ Effluent/ Ambient Air/  
 Hazardous Waste) Stack/ Soil and Hazardous Waste)  
 8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024  
 9. If uncertainty is desired by Customer : No  
 10. Analysis Results :  
 (Attach separate sheet, if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/DW/272
					WATCO, Jhirpani Tap Supply Sampling point
					Results
1.	pH	6.5-8.5	No relaxation	4500-H <sup>+</sup> -B, APHA, 23 <sup>rd</sup> Edn., 2017	6.7
2.	Total Suspended Solids (TSS), mg/L	-	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	11.0
3.	Total Dissolved Solids (TDS), mg/L	500, max	2000, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	108.0
4.	Dissolved Oxygen (DO), mg/L	-	-	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	9.5
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	-	-	IS 3025: Part 44	1.2
6.	Chemical Oxygen Demand (COD), mg/L	-	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	7.8
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.396
8.	Fluoride (F <sup>-</sup> ) mg/L	1.0	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.19

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method, if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,  
 (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
 20.2.2024  
 Authorised Signatory  
 (Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*Niranjan Mallick*  
 Board Analyst  
 (Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

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**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

E-mail: [centrallab@ospcbboard.org](mailto:centrallab@ospcbboard.org)

**TEST REPORT**

Page 1 of 1

1. ULR No. : -----
- 2 (i). Report No. : OS/106/02/2024
- 2(ii). Amendment No : ---
- 3 (i) Date : 20.02.2024
- 3(ii) Amendment Date : ---
4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela
5. Reference Letter No. : 616 dt.13.02.2024
6. Date of sample receipt : 13.02.2024
7. Sample Description :
  - (i) Discipline : Chemical Testing and Biological Testing (Biological Testing, Chemical testing)
  - (ii) Group : Water (Water/ Pollution and Environment / Atmospheric Pollution/ Soil and Hazardous Waste)
  - (iii) Sub Group : Drinking water (Surface water/ Ground water/ Drinking water / Wastewater/ Effluent/ Ambient Air/ Stack/ Soil and Hazardous Waste)
8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024
9. If uncertainty is desired by Customer : No
10. Analysis Results :  
(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/ DW/272
					WATCO, Jhirpani , Tap Supply Sampling point
					Results
1.	Free Residual Chlorine (R.Cl), mg/L	0.2, min	1.0, min	4500 Cl-B, APHA, 23 <sup>rd</sup> Edn., 2017	<0.04
2.	Total Coliform (TC), MPN/100 ml	Shall not be detectable in any 100 ml sample		9221-B, APHA, 23 <sup>rd</sup> Edn., 2017	<1.8(Absent)
3.	Fecal Coliform (FC), MPN/100 ml			9221-E, APHA, 23 <sup>rd</sup> Edn., 2017	<1.8(Absent)

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :
12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
If Yes,
- (a) Date of Sampling :
- (b) Method Used\* :
- (c) Name of Sampler with Designation :

-----End of Test Report-----

*Pattanaik*  
20/02/2024  
Authorised Signatory  
(Biological)  
(Mrs. Nishiprava Pattanaik, AES)

*Usharani*  
20.2.2024  
Authorised Signatory  
(Water/wastewater)  
(Dr. (Mrs) Usharani Patnaik, Addl. Chief Env. Scientist)

*N. Mallick*  
20/2/24  
Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

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Head Office: State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII, Bhubaneswar - 751 012, FAX : 2562822/2560955  
TEL : 2564033/2563294 EPABX : 2561909/2562847, E-mail : [paribesh1@ospcbboard.org](mailto:paribesh1@ospcbboard.org) Website : [www.ospcbboard.org](http://www.ospcbboard.org)



**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

E-mail: [centrallab@ospboard.org](mailto:centrallab@ospboard.org)



**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000010F  
 2 (i). Report No. : OS/107/02/2024  
 3 (i) Date : 20.02.2024  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
 (Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :  
 (i) Discipline : Chemical Testing  
 (Biological Testing,  
 Chemical testing)  
 (ii) Group : Water  
 (Water/ Pollution and Environment  
 / Atmospheric Pollution/ Soil and  
 Hazardous Waste)  
 (iii) Sub Group : Surface water  
 (Surface water/ Ground water/ Drinking  
 water / Wastewater/ Effluent/ Ambient Air/  
 Stack/ Soil and Hazardous Waste)  
 8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024  
 9. If uncertainty is desired by Customer : No  
 10. Analysis Results :  
 (Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits * (IS : 2296-1982)	Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
				Others/ Feb - 24/SW/273
				Main Stream of Koel River at Jhirpani WATCO intake point
				Results
1.	pH	6.5-8.5	4500-H* -B, APHA, 23 <sup>rd</sup> Edn., 2017	6.8
2.	Total Suspended Solids (TSS), mg/L	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	14.0
3.	Total Dissolved Solids (TDS), mg/L	1500, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	112.0
4.	Dissolved Oxygen (DO), mg/L	4, min	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	9.4
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	3, max	IS 3025: Part 44	1.1
6.	Chemical Oxygen Demand (COD), mg/L	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	7.8
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.354
8.	Fluoride (F) mg/L	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.18

\* Tolerance limit for inland surface water subject to pollution (IS : 2296-1982), for Class 'C' (Drinking source with conventional treatment and disinfection)

11. Deviation from Test Method , if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,  
 (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
20.2.2024

Authorised Signatory  
(Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*N. Mallick*  
20/2/24

Board Analyst

(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

- (i) The results stated above relate only to the items tested.  
 (ii) This report shall not be reproduced in full or in part without written approval from the In-charge of the Central Laboratory  
 (iii) The laboratory is not responsible for the authenticity of photocopied Test Reports  
 (iv) The Test Item will not be retained for more than 15 days from the date of issue of Test Report except in case as required by applicable Regulation



**CENTRAL LABORATORY**  
**STATE POLLUTION CONTROL BOARD, ODISHA**

Annexure-IV

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,

Bhubaneswar - 751 024

E-mail: [centrallab@ospcboard.org](mailto:centrallab@ospcboard.org)

**TEST REPORT**

Page 1 of 1

1. ULR No. : -----
- 2 (i). Report No. : OS/108/02/2024
- 2(ii). Amendment No : ---
- 3 (i) Date : 20.02.2024
- 3(ii) Amendment Date : ---
4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela
5. Reference Letter No. : 616 dt.13.02.2024
6. Date of sample receipt : 13.02.2024
7. Sample Description :
  - (i) Discipline : Chemical Testing and Biological Testing (Biological Testing, Chemical testing)
  - (ii) Group : Water (Water/ Pollution and Environment / Atmospheric Pollution/ Soil and Hazardous Waste)
  - (iii) Sub Group : Surface water (Surface water/ Ground water/ Drinking water / Wastewater/ Effluent/ Ambient Air/ Stack/ Soil and Hazardous Waste)
8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024
9. If uncertainty is desired by Customer : No
10. Analysis Results :  
(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits * (IS : 2296-1982)	Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
				Others/ Feb - 24/ SW/273 Main Stream of Koel River at Jhirpani WATCO intake point Results
1.	Free Residual Chlorine (R.Cl), mg/L	-	4500 Cl-B, APHA, 23 <sup>rd</sup> Edn., 2017	<0.04
2.	Total Coliform (TC), MPN/100 ml	5000, max	9221-B, APHA, 23 <sup>rd</sup> Edn., 2017	350
3.	Fecal Coliform (FC), MPN/100 ml	-	9221-E, APHA, 23 <sup>rd</sup> Edn., 2017	13

\* Tolerance limit for inland surface water subject to pollution (IS : 2296-1982), for Class 'C' (Drinking source with conventional treatment and disinfection)

11. Deviation from Test Method , if any :
12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
If Yes,  
(a) Date of Sampling : (b) Method Used\* :  
(c) Name of Sampler with Designation :

-----End of Test Report-----

*A. Pattanaik*  
20/02/2024  
Authorised Signatory  
(Biological)  
(Mrs. Nishprava Pattanaik, AES)

*Usharani Patnaik*  
20.2.2024  
Authorised Signatory  
(Water/wastewater)  
(Dr. (Mrs) Usharani Patnaik, Addl. Chief Env. Scientist)

*N. Mallick*  
Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

- (i) The results stated above relate only to the items tested.
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TEL : 2564033/2563294 EPABX : 2561909/2562847, E-mail: [paribesh1@ospcboard.org](mailto:paribesh1@ospcboard.org) Website : [www.ospcboard.org](http://www.ospcboard.org)



**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

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**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000011F  
 2 (i). Report No. : OS/109/02/2024  
 3 (i) Date : 20.02.2024  
 2(ii). Amendment No : ---  
 3(ii) Amendment Date : ---

4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela

5. Reference Letter No. : 616 dt.13.02.2024

6. Date of sample receipt : 13.02.2024

7. Sample Description :

(i) Discipline : Chemical Testing

(Biological Testing,  
Chemical testing)

(ii) Group : Water

(Water/ Pollution and Environment  
/ Atmospheric Pollution/ Soil and  
Hazardous Waste)

(iii) Sub Group : Drinking water

(Surface water/ Ground water/ Drinking  
water / Wastewater/ Effluent/ Ambient Air/  
Stack/ Soil and Hazardous Waste)

8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024

9. If uncertainty is desired by Customer : No

10. Analysis Results :

(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/DW/274
					WATCO Section – III, Koel Nagar over head tank water
					<b>Results</b>
1.	pH	6.5-8.5	No relaxation	4500-H* -B, APHA, 23 <sup>rd</sup> Edn., 2017	6.9
2.	Total Suspended Solids (TSS), mg/L	-	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	<10
3.	Total Dissolved Solids (TDS), mg/L	500, max	2000, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	112.0
4.	Dissolved Oxygen (DO), mg/L	-	-	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	12.8
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	-	-	IS 3025: Part 44	1.6
6.	Chemical Oxygen Demand (COD), mg/L	-	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	12.0
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.309
8.	Fluoride (F) mg/L	1.0	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.20

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :

12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No

If Yes,

(a) Date of Sampling :

(b) Method Used\* :

(c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
20.2.2024  
Authorised Signatory  
(Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*Niranjan Mallick*  
20/2/24  
Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

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**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000012F
- 2 (i). Report No. : OS/111/02/2024
- 2(ii). Amendment No : ---
- 3 (i) Date : 20.02.2024
- 3(ii) Amendment Date : ---
4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela
5. Reference Letter No. : 616 dt.13.02.2024
6. Date of sample receipt : 13.02.2024
7. Sample Description :
  - (i) Discipline : Chemical Testing  
(Biological Testing,  
Chemical testing)
  - (ii) Group : Water  
(Water/ Pollution and Environment  
/ Atmospheric Pollution/ Soil and  
Hazardous Waste)
  - (iii) Sub Group : Drinking water  
(Surface water/ Ground water/ Drinking  
water / Wastewater/ Effluent/ Ambient Air/  
Stack/ Soil and Hazardous Waste)
8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024
9. If uncertainty is desired by Customer : No
10. Analysis Results :  
(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/DW/275
					WATCO Sakti Nagar overhead tank water supply
					Results
1.	pH	6.5-8.5	No relaxation	4500-H <sup>+</sup> -B, APHA, 23 <sup>rd</sup> Edn., 2017	6.8
2.	Total Suspended Solids (TSS), mg/L	-	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	11.0
3.	Total Dissolved Solids (TDS), mg/L	500, max	2000, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	116.0
4.	Dissolved Oxygen (DO), mg/L	-	-	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	7.9
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	-	-	IS 3025: Part 44	1.2
6.	Chemical Oxygen Demand (COD), mg/L	-	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	7.8
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.329
8.	Fluoride (F <sup>-</sup> ) mg/L	1.0	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.18

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :
12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
If Yes,
  - (a) Date of Sampling :
  - (b) Method Used\* :
  - (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
20.02.2024  
Authorised Signatory  
(Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*N. Niranjan Mallick*  
20.02.24  
Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

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Head Office: State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakanthapur, Unit-VIII, Bhubaneswar - 751 012. FAX : 2562822/2560955  
TEL : 2564033/2563294 EPABX : 2561909/2562847. E-mail : [paribesh1@ospcbboard.org](mailto:paribesh1@ospcbboard.org); Website : [www.ospcbboard.org](http://www.ospcbboard.org)



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Bhubaneswar - 751 024  
E-mail: [centrallab@ospcbboard.org](mailto:centrallab@ospcbboard.org)

**TEST REPORT**

Page 1 of 1

1. ULR No. : -----
- 2 (i). Report No. : OS/112/02/2024
- 2(ii). Amendment No : ---
- 3 (i) Date : 20.02.2024
- 3(ii) Amendment Date : ---
4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela
5. Reference Letter No. : 616 dt.13.02.2024
6. Date of sample receipt : 13.02.2024
7. Sample Description :
 

(i) Discipline : Chemical Testing and Biological Testing (Biological Testing, Chemical testing)	(ii) Group : Water (Water/ Pollution and Environment / Atmospheric Pollution/ Soil and Hazardous Waste)	(iii) Sub Group : Drinking water (Surface water/ Ground water/ Drinking water / Wastewater/ Effluent/ Ambient Air/ Stack/ Soil and Hazardous Waste)
--	--	--
8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024
9. If uncertainty is desired by Customer : No
10. Analysis Results :  
(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits*		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/ DW /275
					WATCO Sakti Nagar overhead tank water supply
					<b>Results</b>
1.	Free Residual Chlorine (R.Cl), mg/L	0.2, min	1.0, min	4500 Cl-B, APHA, 23 <sup>rd</sup> Edn., 2017	<0.04
2.	Total Coliform (TC), MPN/100 ml	Shall not be detectable in any 100 ml sample		9221-B, APHA, 23 <sup>rd</sup> Edn., 2017	<1.8(Absent)
3.	Fecal Coliform (FC), MPN/100 ml			9221-E, APHA, 23 <sup>rd</sup> Edn., 2017	<1.8(Absent)

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :
12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
If Yes,  
(a) Date of Sampling : (b) Method Used\* :  
(c) Name of Sampler with Designation :

-----End of Test Report-----

*Pattanaik*  
20/02/2024  
Authorised Signatory  
(Biological)  
(Mrs. Nishiprava Pattanaik, AES)

*Usharani Patnaik*  
20-2-2024  
Authorised Signatory  
(Water/wastewater)  
(Dr. (Mrs) Usharani Patnaik, Addl. Chief Env. Scientist)

*Niranjan Mallick*  
20/2/24  
Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

- Note :**
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TEL: 2564033/2563294 EPABX : 2561909/2562847. E-mail: [paribesh1@ospcbboard.org](mailto:paribesh1@ospcbboard.org) Website : [www.ospcbboard.org](http://www.ospcbboard.org)



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TC-12740

**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000013F  
 2 (i). Report No. : OS/113/02/2024  
 3 (i) Date : 20.02.2024  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
 (Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :  
 (i) Discipline : Chemical Testing  
 (Biological Testing,  
 Chemical testing)  
 (ii) Group : Water  
 (Water/ Pollution and Environment  
 / Atmospheric Pollution/ Soil and  
 Hazardous Waste)  
 (iii) Sub Group : Drinking water  
 (Surface water/ Ground water/ Drinking  
 water / Wastewater/ Effluent/ Ambient Air/  
 Stack/ Soil and Hazardous Waste)  
 8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024  
 9. If uncertainty is desired by Customer : No  
 10. Analysis Results :

(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/DW/276
					SAIL Water Treatment plant
					Results
1.	pH	6.5-8.5	No relaxation	4500-H <sup>+</sup> -B, APHA, 23 <sup>rd</sup> Edn., 2017	6.8
2.	Total Suspended Solids (TSS), mg/L	-	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	12.0
3.	Total Dissolved Solids (TDS), mg/L	500, max	2000, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	136.0
4.	Dissolved Oxygen (DO), mg/L	-	-	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	8.7
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	-	-	IS 3025: Part 44	1.1
6.	Chemical Oxygen Demand (COD), mg/L	-	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	7.8
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.375
8.	Fluoride (F <sup>-</sup> ) mg/L	1.0	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.17

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method, if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,  
 (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
20.2.2024

Authorised Signatory  
(Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*Niranjan Mallick*  
20/2/24

Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

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**TEST REPORT**

Page 1 of 1

1. ULR No. : TC12740240000014F  
 2 (i). Report No. : OS/115/02/2024  
 3 (i) Date : 20.02.2024  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
 (Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :

(i) Discipline : Chemical Testing  
 (Biological Testing,  
 Chemical testing)

(ii) Group : Water  
 (Water/ Pollution and Environment  
 / Atmospheric Pollution/ Soil and  
 Hazardous Waste)

(iii) Sub Group : Surface water  
 (Surface water/ Ground water/ Drinking  
 water / Wastewater/ Effluent/ Ambient Air/  
 Stack/ Soil and Hazardous Waste)

8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024  
 9. If uncertainty is desired by Customer : No  
 10. Analysis Results :  
 (Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits * (IS : 2296-1982)	Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
				Others/ Feb - 24/SW/277 Koel U/s, Baikunthaghat, SAIL Intake point
				Results
1.	pH	6.5-8.5	4500-H <sup>+</sup> -B, APHA, 23 <sup>rd</sup> Edn., 2017	6.9
2.	Total Suspended Solids (TSS), mg/L	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	13.0
3.	Total Dissolved Solids (TDS), mg/L	1500, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	104.0
4.	Dissolved Oxygen (DO), mg/L	4, min	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	8.6
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	3, max	IS 3025: Part 44	1.2
6.	Chemical Oxygen Demand (COD), mg/L	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	7.8
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.321
8.	Fluoride (F) mg/L	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.17

\* Tolerance limit for inland surface water subject to pollution (IS : 2296-1982), for Class 'C' (Drinking source with conventional treatment and disinfection)

11. Deviation from Test Method , if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,  
 (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
 20.2.2024  
 Authorised Signatory  
 (Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*Niranjan Mallick*  
 20/2/24  
 Board Analyst  
 (Mr. Niranjan Mallick, Chief Env. Scientist)

Note :  
 (i) The results stated above relate only to the items tested.  
 (ii) This report shall not be reproduced in full or in part without written approval from the In-charge of the Central Laboratory  
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 TEL: 2564033/2563294 EPABX: 2561909/2562847. E-mail: [paribesh1@spceboard.org](mailto:paribesh1@spceboard.org); Website: [www.ospceboard.org](http://www.ospceboard.org)



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Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

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**TEST REPORT**

Page 1 of 1

1. ULR No. : -----
- 2 (i). Report No. : OS/116/02/2024
- 3 (i) Date : 20.02.2024
- 2(ii). Amendment No : ---
- 3(ii) Amendment Date : ---
4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela
5. Reference Letter No. : 616 dt.13.02.2024
6. Date of sample receipt : 13.02.2024
7. Sample Description :
- (i) Discipline : Chemical Testing and Biological Testing  
(Biological Testing, Chemical testing)
- (ii) Group : Water  
(Water/ Pollution and Environment / Atmospheric Pollution/ Soil and Hazardous Waste)
- (iii) Sub Group : Surface water  
(Surface water/ Ground water/ Drinking water / Wastewater/ Effluent/ Ambient Air/ Stack/ Soil and Hazardous Waste)
8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024
9. If uncertainty is desired by Customer : No
10. Analysis Results :  
(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits * (IS : 2296-1982)	Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ	
				Others/ Feb - 24/SW /277	Koel U/s, Baikunthaghat, SAIL Intake point
				Results	
1.	Free Residual Chlorine (R.Cl), mg/L	-	4500 Cl-B, APHA, 23 <sup>rd</sup> Edn., 2017	<0.04	
2.	Total Coliform (TC), MPN/100 ml	5000, max	9221-B, APHA, 23 <sup>rd</sup> Edn., 2017	7900	
3.	Fecal Coliform (FC), MPN/100 ml	-	9221-E, APHA, 23 <sup>rd</sup> Edn., 2017	1700	

\* Tolerance limit for inland surface water subject to pollution (IS : 2296-1982), for Class 'C' (Drinking source with conventional treatment and disinfection)

11. Deviation from Test Method , if any :
12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
If Yes,
- (a) Date of Sampling : (b) Method Used\* :
- (c) Name of Sampler with Designation :

-----End of Test Report-----

*Nishprava Pattanaik*  
20/02/2024  
Authorised Signatory  
(Biological)  
(Mrs. Nishprava Pattanaik, AES)

*Usharani Patnaik*  
20/2/2024  
Authorised Signatory  
(Water/wastewater)  
(Dr. (Mrs) Usharani Patnaik, Addl. Chief Env. Scientist)

*Niranjan Mallick*  
20/2/2024  
Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

- (i) The results stated above relate only to the items tested.
- (ii) This report shall not be reproduced in full or in part without written approval from the In-charge of the Central Laboratory.
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TEL : 2564033/2563294 EPABX : 2561909/2562847, E-mail: [paribesh1@ospboard.org](mailto:paribesh1@ospboard.org) Website : [www.ospboard.org](http://www.ospboard.org)



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**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000015F  
 2 (i). Report No. : OS/117/02/2024  
 3 (i) Date : 20.02.2024  
 2(ii). Amendment No : ---  
 3(ii) Amendment Date : ---  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
 (Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :

(i) Discipline : Chemical Testing  
 (Biological Testing,  
 Chemical testing)

(ii) Group : Water  
 (Water/ Pollution and Environment  
 / Atmospheric Pollution/ Soil and  
 Hazardous Waste)

(iii) Sub Group : Drinking water  
 (Surface water/ Ground water/ Drinking  
 water / Wastewater/ Effluent/ Ambient Air/  
 Stack/ Soil and Hazardous Waste)

8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024  
 9. If uncertainty is desired by Customer : No  
 10. Analysis Results :  
 (Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/DW/278
					55 MLD Water Treatment plant outlet
					<b>Results</b>
1.	pH	6.5-8.5	No relaxation	4500-H* -B, APHA, 23 <sup>rd</sup> Edn., 2017	6.8
2.	Total Suspended Solids (TSS), mg/L	-	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	<10
3.	Total Dissolved Solids (TDS), mg/L	500, max	2000, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	112.0
4.	Dissolved Oxygen (DO), mg/L	-	-	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	10.0
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	-	-	IS 3025: Part 44	1.3
6.	Chemical Oxygen Demand (COD), mg/L	-	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	7.8
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.393
8.	Fluoride (F <sup>-</sup> ) mg/L	1.0	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.18

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,  
 (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
20.2.2024

Authorised Signatory  
(Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*Niranjan Mallick*  
Board Analyst

(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

- (i) The results stated above relate only to the items tested.  
 (ii) This report shall not be reproduced in full or in part without written approval from the In-charge of the Central Laboratory.  
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**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024  
E-mail: [centrallab@ospboard.org](mailto:centrallab@ospboard.org)

**TEST REPORT**

Page 1 of 1

1. ULR No. : -----
- 2 (i). Report No. : OS/118/02/2024
- 3 (i) Date : 20.02.2024
4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela
5. Reference Letter No. : 616 dt.13.02.2024
6. Date of sample receipt : 13.02.2024
7. Sample Description :
- (i) Discipline : Chemical Testing and Biological Testing (Biological Testing, Chemical testing)
- (ii) Group : Water (Water/ Pollution and Environment / Atmospheric Pollution/ Soil and Hazardous Waste)
- (iii) Sub Group : Drinking water (Surface water/ Ground water/ Drinking water / Wastewater/ Effluent/ Ambient Air/ Stack/ Soil and Hazardous Waste)
8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024
9. If uncertainty is desired by Customer : No
10. Analysis Results :  
(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits*		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/ DW /278
					55 MLD Water Treatment plant outlet
					Results
1.	Free Residual Chlorine (R.Cl), mg/L	0.2, min	1.0, min	4500 Cl-B, APHA, 23 <sup>rd</sup> Edn., 2017	<0.04
2.	Total Coliform (TC), MPN/100 ml	Shall not be detectable in any 100 ml sample		9221-B, APHA, 23 <sup>rd</sup> Edn., 2017	<1.8(Absent)
3.	Fecal Coliform (FC), MPN/100 ml			9221-E, APHA, 23 <sup>rd</sup> Edn., 2017	<1.8(Absent)

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :
12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
If Yes,
- (a) Date of Sampling : (b) Method Used\* :
- (c) Name of Sampler with Designation :

-----End of Test Report-----

*Atharvika*  
20/2/2024

Authorised Signatory  
(Biological)  
(Mrs. Nishprava Pattanaik, AES)

*Usharani*  
20-2-2024

Authorised Signatory  
(Water/wastewater)  
(Dr. (Mrs) Usharani Patnaik, Addl. Chief Env. Scientist)

*M. Niranjan Mallick*  
20/2/24

Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

- (i) The results stated above relate only to the items tested.
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Head Office: State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII, Bhubaneswar - 751 012, FAX : 2562822/2560955  
TEL : 2564033/2563294 EPABX : 2561909/2562847, E-mail : [paribesh1@ospboard.org](mailto:paribesh1@ospboard.org) Website : [www.ospboard.org](http://www.ospboard.org)



**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

E-mail: [centrallab@ospceboard.org](mailto:centrallab@ospceboard.org)



**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000016F  
 2 (i). Report No. : OS/119/02/2024  
 3 (i) Date : 20.02.2024  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
 (Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :  
 (i) Discipline : Chemical Testing (ii) Group : Water (iii) Sub Group : Drinking water  
 (Biological Testing, (Water/ Pollution and Environment (Surface water/ Ground water/ Drinking  
 Chemical testing) / Atmospheric Pollution/ Soil and water / Wastewater/ Effluent/ Ambient Air/  
 Hazardous Waste) Stack/ Soil and Hazardous Waste)  
 8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024  
 9. If uncertainty is desired by Customer : No  
 10. Analysis Results :  
 (Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/DW/279
					Plant site Road Tap Water
					<b>Results</b>
1.	pH	6.5-8.5	No relaxation	4500-H <sup>+</sup> -B, APHA, 23 <sup>rd</sup> Edn., 2017	6.7
2.	Total Suspended Solids (TSS), mg/L	-	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	12.0
3.	Total Dissolved Solids (TDS), mg/L	500, max	2000, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	96.0
4.	Dissolved Oxygen (DO), mg/L	-	-	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	2.2
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	-	-	IS 3025: Part 44	1.2
6.	Chemical Oxygen Demand (COD), mg/L	-	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	7.8
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.422
8.	Fluoride (F <sup>-</sup> ) mg/L	1.0	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.17

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method, if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,  
 (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
 20.2.2024  
 Authorised Signatory  
 (Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*Niranjan Mallick*  
 20/2/24  
 Board Analyst  
 (Mr. Niranjan Mallick, Chief Env. Scientist)

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STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
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**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000017F  
 2 (i). Report No. : OS/121/02/2024  
 3 (i) Date : 20.02.2024  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
 (Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :

- 2(ii). Amendment No : ---  
 3(ii) Amendment Date : ---

- (i) Discipline : Chemical Testing  
 (Biological Testing,  
 Chemical testing)  
 (ii) Group : Water  
 (Water/ Pollution and Environment  
 / Atmospheric Pollution/ Soil and  
 Hazardous Waste)  
 (iii) Sub Group : Drinking water  
 (Surface water/ Ground water/ Drinking  
 water / Wastewater/ Effluent/ Ambient Air/  
 Stack/ Soil and Hazardous Waste)

8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024

9. If uncertainty is desired by Customer : No

10. Analysis Results :

(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/DW/280
					Nala Road, Supply Tap Water
					<b>Results</b>
1.	pH	6.5-8.5	No relaxation	4500-H* -B, APHA, 23 <sup>rd</sup> Edn., 2017	6.8
2.	Total Suspended Solids (TSS), mg/L	-	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	11.0
3.	Total Dissolved Solids (TDS), mg/L	500, max	2000, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	100.0
4.	Dissolved Oxygen (DO), mg/L	-	-	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	10.4
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	-	-	IS 3025: Part 44	1.1
6.	Chemical Oxygen Demand (COD), mg/L	-	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	7.8
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.321
8.	Fluoride (F) mg/L	1.0	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.16

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :

12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,

- (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
 20.02.2024

Authorised Signatory  
 (Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*Niranjan Mallick*

Board Analyst  
 (Mr. Niranjan Mallick, Chief Env. Scientist)

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**CENTRAL LABORATORY**  
**STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
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**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000018F  
 2 (i). Report No. : OS/123/02/2024  
 3 (i) Date : 20.02.2024  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
 (Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :

- (i) Discipline : Chemical Testing  
 (Biological Testing,  
 Chemical testing)  
 (ii) Group : Water  
 (Water/ Pollution and Environment  
 / Atmospheric Pollution/ Soil and  
 Hazardous Waste)  
 (iii) Sub Group : Drinking water  
 (Surface water/ Ground water/ Drinking  
 water / Wastewater/ Effluent/ Ambient Air/  
 Stack/ Soil and Hazardous Waste)

8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024

9. If uncertainty is desired by Customer : No

10. Analysis Results :

(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/DW/281
					Oram Pada Udit Nagar Tap Water
					<b>Results</b>
1.	pH	6.5-8.5	No relaxation	4500-H <sup>+</sup> -B, APHA, 23 <sup>rd</sup> Edn., 2017	6.9
2.	Total Suspended Solids (TSS), mg/L	-	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	12.0
3.	Total Dissolved Solids (TDS), mg/L	500, max	2000, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	116.0
4.	Dissolved Oxygen (DO), mg/L	-	-	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	8.6
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	-	-	IS 3025: Part 44	1.8
6.	Chemical Oxygen Demand (COD), mg/L	-	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	12.0
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.389
8.	Fluoride (F <sup>-</sup> ) mg/L	1.0	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.18

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :

12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,

- (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
20.2.2024

Authorised Signatory  
(Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*Niranjan Mallick*  
20/2/24

Board Analyst

(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

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**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

Annexure-IV

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

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**TEST REPORT**

Page 1 of 1

1. ULR No. : -----
- 2 (i). Report No. : OS/124/02/2024
- 3 (i) Date : 20.02.2024
4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela
5. Reference Letter No. : 616 dt.13.02.2024
6. Date of sample receipt : 13.02.2024
7. Sample Description :
- (i) Discipline : Chemical Testing and Biological Testing (Biological Testing, Chemical testing)
- (ii) Group : Water (Water/ Pollution and Environment / Atmospheric Pollution/ Soil and Hazardous Waste)
- (iii) Sub Group : Drinking water (Surface water/ Ground water/ Drinking water / Wastewater/ Effluent/ Ambient Air/ Stack/ Soil and Hazardous Waste)
8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024
9. If uncertainty is desired by Customer : No
10. Analysis Results :  
(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits*		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/ DW /281 Oram Pada Udit Nagar Tap Water
					<b>Results</b>
1.	Free Residual Chlorine (R.Cl), mg/L	0.2, min	1.0, min	4500 Cl-B, APHA, 23 <sup>rd</sup> Edn., 2017	<0.04
2.	Total Coliform (TC), MPN/100 ml	Shall not be detectable in any 100 ml sample		9221-B, APHA, 23 <sup>rd</sup> Edn., 2017	<1.8(Absent)
3.	Fecal Coliform (FC), MPN/100 ml			9221-E, APHA, 23 <sup>rd</sup> Edn., 2017	<1.8(Absent)

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :
12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
If Yes,
- (a) Date of Sampling : (b) Method Used\* :
- (c) Name of Sampler with Designation :

-----End of Test Report-----

*A. Pattanaik*  
20/02/2024

Authorised Signatory  
(Biological)  
(Mrs. Nishprava Pattanaik, AES)

*Usharani Patnaik*  
20.2.2024

Authorised Signatory  
(Water/wastewater)  
(Dr. (Mrs) Usharani Patnaik, Addl. Chief Env. Scientist)

*N. Anand*  
20/02/2024

Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

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TEL : 2564033/2563294 EPABX : 2561909/2562847, E-mail : [paribesh1@ospcbboard.org](mailto:paribesh1@ospcbboard.org) Website : [www.ospcbboard.org](http://www.ospcbboard.org)

OSPCB/CNL/F0718



**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

E-mail: [centrallab@ospcbboard.org](mailto:centrallab@ospcbboard.org)



**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000020F  
 2 (i). Report No. : OS/127/02/2024  
 3 (i) Date : 20.02.2024  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
 (Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :  
 (i) Discipline : Chemical Testing  
 (ii) Group : Water  
 (iii) Sub Group : Drinking water  
 (Biological Testing, (Water/ Pollution and Environment (Surface water/ Ground water/ Drinking  
 Chemical testing) / Atmospheric Pollution/ Soil and water / Wastewater/ Effluent/ Ambient Air/  
 Hazardous Waste) Stack/ Soil and Hazardous Waste)  
 8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024  
 9. If uncertainty is desired by Customer : No  
 10. Analysis Results :  
 (Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/DW/283
					Kishantola Panposh Basti Tap Water
					<b>Results</b>
1.	pH	6.5-8.5	No relaxation	4500-H* -B, APHA, 23 <sup>rd</sup> Edn., 2017	6.9
2.	Total Suspended Solids (TSS), mg/L	-	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	13.0
3.	Total Dissolved Solids (TDS), mg/L	500, max	2000, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	124.0
4.	Dissolved Oxygen (DO), mg/L	-	-	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	9.6
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	-	-	IS 3025: Part 44	1.2
6.	Chemical Oxygen Demand (COD), mg/L	-	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	7.8
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.377
8.	Fluoride (F <sup>-</sup> ) mg/L	1.0	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.17

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,  
 (a) Date of Sampling :  
 (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
20.2.2024

Authorised Signatory  
(Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*M. Niranjan Mallick*  
20/2/2024

Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

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 TEL: 2564033/2563294 EPABX: 2561909/2562847. E-mail: [paribesh1@ospcbboard.org](mailto:paribesh1@ospcbboard.org) Website: [www.ospcbboard.org](http://www.ospcbboard.org)



**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

E-mail: [centrallab@ospboard.org](mailto:centrallab@ospboard.org)

**TEST REPORT**

Page 1 of 1

1. ULR No. : -----
- 2 (i). Report No. : OS/128/02/2024
- 2(ii). Amendment No : ---
- 3 (i) Date : 20.02.2024
- 3(ii) Amendment Date : ---
4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela
5. Reference Letter No. : 616 dt.13.02.2024
6. Date of sample receipt : 13.02.2024
7. Sample Description :
 

(i) Discipline : Chemical Testing and Biological Testing (Biological Testing, Chemical testing)	(ii) Group : Water (Water/ Pollution and Environment / Atmospheric Pollution/ Soil and Hazardous Waste)	(iii) Sub Group : Drinking water (Surface water/ Ground water/ Drinking water / Wastewater/ Effluent/ Ambient Air/ Stack/ Soil and Hazardous Waste)
--	--	--
8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024
9. If uncertainty is desired by Customer : No
10. Analysis Results :  
(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits*		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/ DW /283 Kishantola Panposh Basti Tap Water
					<b>Results</b>
1.	Free Residual Chlorine (R.Cl), mg/L	0.2, min	1.0, min	4500 Cl-B, APHA, 23 <sup>rd</sup> Edn., 2017	<0.04
2.	Total Coliform (TC), MPN/100 ml	Shall not be detectable in any 100 ml sample		9221-B, APHA, 23 <sup>rd</sup> Edn., 2017	<1.8(Absent)
3.	Fecal Coliform (FC), MPN/100 ml			9221-E, APHA, 23 <sup>rd</sup> Edn., 2017	<1.8(Absent)

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :
12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
If Yes,  
(a) Date of Sampling : (b) Method Used\* :  
(c) Name of Sampler with Designation :

-----End of Test Report-----

*Nishiprava Pattanaik*  
20/02/2024  
Authorised Signatory  
(Biological)  
(Mrs. Nishiprava Pattanaik, AES)

*Usharani Patnaik*  
20.2.2024  
Authorised Signatory  
(Water/wastewater)  
(Dr. (Mrs) Usharani Patnaik, Addl. Chief Env. Scientist)

*Niranjan Mallick*  
20/02/2024  
Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

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TEL: 2564033/2563294 EPABX: 2561909/2562847, E-mail: [paribesh1@ospboard.org](mailto:paribesh1@ospboard.org) Website: [www.ospboard.org](http://www.ospboard.org)



**CENTRAL LABORATORY  
STATE POLLUTION CONTROL BOARD, ODISHA**

Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,  
Bhubaneswar - 751 024

E-mail: [centrallab@ospcbboard.org](mailto:centrallab@ospcbboard.org)



**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000021F  
 2 (i). Report No. : OS/129/02/2024  
 3 (i) Date : 20.02.2024  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :  
 (i) Discipline : Chemical Testing  
(Biological Testing, Chemical testing)  
 (ii) Group : Water  
(Water/ Pollution and Environment / Atmospheric Pollution/ Soil and Hazardous Waste)  
 (iii) Sub Group : Drinking water  
(Surface water/ Ground water/ Drinking water / Wastewater/ Effluent/ Ambient Air/ Stack/ Soil and Hazardous Waste)  
 8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024  
 9. If uncertainty is desired by Customer : No  
 10. Analysis Results :  
 (Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/DW/284
					18 MLD Intake Pump House at Panposh
					<b>Results</b>
1.	pH	6.5-8.5	No relaxation	4500-H*-B, APHA, 23 <sup>rd</sup> Edn., 2017	6.9
2.	Total Suspended Solids (TSS), mg/L	-	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	18.0
3.	Total Dissolved Solids (TDS), mg/L	500, max	2000, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	128.0
4.	Dissolved Oxygen (DO), mg/L	-	-	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	9.3
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	-	-	IS 3025: Part 44	1.1
6.	Chemical Oxygen Demand (COD), mg/L	-	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	7.8
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.402
8.	Fluoride (F <sup>-</sup> ) mg/L	1.0	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.16

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,  
 (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
 20.2.2024  
 Authorised Signatory  
 (Water/wastewater)  
 (Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*M. Niranjan Mallick*  
 Board Analyst  
 (Mr. Niranjan Mallick, Chief Env. Scientist)

Note :  
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**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000022F  
 2 (i). Report No. : OS/131/02/2024  
 3 (i) Date : 20.02.2024  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
 (Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :  
 (i) Discipline : Chemical Testing (ii) Group : Water (iii) Sub Group : Drinking water  
 (Biological Testing, (Water/ Pollution and Environment (Surface water/ Ground water/ Drinking  
 Chemical testing) / Atmospheric Pollution/ Soil and water / Wastewater/ Effluent/ Ambient Air/  
 Hazardous Waste) Stack/ Soil and Hazardous Waste)  
 8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024  
 9. If uncertainty is desired by Customer : No  
 10. Analysis Results :  
 (Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/DW/285
					25 MLD Intake Pump House at Panposh
					<b>Results</b>
1.	pH	6.5-8.5	No relaxation	4500-H <sup>-</sup> -B, APHA, 23 <sup>rd</sup> Edn., 2017	6.8
2.	Total Suspended Solids (TSS), mg/L	-	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	17.0
3.	Total Dissolved Solids (TDS), mg/L	500, max	2000, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	112.0
4.	Dissolved Oxygen (DO), mg/L	-	-	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	9.0
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	-	-	IS 3025: Part 44	1.2
6.	Chemical Oxygen Demand (COD), mg/L	-	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	7.8
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.305
8.	Fluoride (F) mg/L	1.0	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.15

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,  
 (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
20.2.2024

Authorised Signatory  
(Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*Niranjan Mallick*  
20/2/24

Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

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**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000023F  
 2 (i). Report No. : OS/133/02/2024  
 3 (i) Date : 20.02.2024  
 2(ii). Amendment No : ---  
 3(ii) Amendment Date : ---  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
 (Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :  
 (i) Discipline : Chemical Testing  
 (Biological Testing,  
 Chemical testing)  
 (ii) Group : Water  
 (Water/ Pollution and Environment  
 / Atmospheric Pollution/ Soil and  
 Hazardous Waste)  
 (iii) Sub Group : Drinking water  
 (Surface water/ Ground water/ Drinking  
 water / Wastewater/ Effluent/ Ambient Air/  
 Stack/ Soil and Hazardous Waste)  
 8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024  
 9. If uncertainty is desired by Customer : No  
 10. Analysis Results :

(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/DW/286
					43 MLD Supply Water at Panposh
					<b>Results</b>
1.	pH	6.5-8.5	No relaxation	4500-H <sup>+</sup> -B, APHA, 23 <sup>rd</sup> Edn., 2017	7.1
2.	Total Suspended Solids (TSS), mg/L	-	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	13.0
3.	Total Dissolved Solids (TDS), mg/L	500, max	2000, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	180.0
4.	Dissolved Oxygen (DO), mg/L	-	-	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	9.1
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	-	-	IS 3025: Part 44	1.6
6.	Chemical Oxygen Demand (COD), mg/L	-	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	12.0
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.307
8.	Fluoride (F) mg/L	1.0	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.15

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method , if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,  
 (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
20.2.2024

Authorised Signatory  
(Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*Niranjan Mallick*

Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

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TC-12740

**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000026F  
 2 (i). Report No. : OS/139/02/2024  
 3 (i) Date : 20.02.2024  
 2(ii). Amendment No : ---  
 3(ii) Amendment Date : ---  
 4. Sample Submitted By : Sri A. Sahoo, JSA,  
 (Name and address) Regional Office, SPCB, Odisha, Rourkela  
 5. Reference Letter No. : 616 dt.13.02.2024  
 6. Date of sample receipt : 13.02.2024  
 7. Sample Description :  
 (i) Discipline : Chemical Testing  
 (Biological Testing,  
 Chemical testing)  
 (ii) Group : Water  
 (Water/ Pollution and Environment  
 / Atmospheric Pollution/ Soil and  
 Hazardous Waste)  
 (iii) Sub Group : Surface water  
 (Surface water/ Ground water/ Drinking  
 water / Wastewater/ Effluent/ Ambient Air/  
 Stack/ Soil and Hazardous Waste)  
 8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024  
 9. If uncertainty is desired by Customer : No  
 10. Analysis Results :  
 (Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits * (IS : 2296-1982)	Test Method	Joint sampling in the matter of O.A no. - 25/2004/EZ
				Others/ Feb - 24/SW/289 Vedvyas Water Intake of WATCO Plant Results
1.	pH	6.5-8.5	4500-H* -B, APHA, 23 <sup>rd</sup> Edn., 2017	7.1
2.	Total Suspended Solids (TSS), mg/L	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	20.0
3.	Total Dissolved Solids (TDS), mg/L	1500, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	124.0
4.	Dissolved Oxygen (DO), mg/L	4, min	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	9.5
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	3, max	IS 3025: Part 44	1.4
6.	Chemical Oxygen Demand (COD), mg/L	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	7.8
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.389
8.	Fluoride (F) mg/L	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.17

\* Tolerance limit for inland surface water subject to pollution (IS : 2296-1982), for Class 'C'  
 (Drinking source with conventional treatment and disinfection)

11. Deviation from Test Method , if any :  
 12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
 If Yes,  
 (a) Date of Sampling : (b) Method Used\* :  
 (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
20.2.2024

Authorised Signatory  
(Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*M. Niranjan Mallick*  
20/2/24

Board Analyst  
(Mr. Niranjan Mallick, Chief Env. Scientist)

**Note :**

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 TEL : 2564033/2563294 EPABX : 2561909/2562847. E-mail : [paribesh1@ospcboard.org](mailto:paribesh1@ospcboard.org); Website : [www.ospcboard.org](http://www.ospcboard.org)





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STATE POLLUTION CONTROL BOARD, ODISHA**

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Bhubaneswar - 751 024

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**TEST REPORT**

Page 1 of 1

1. ULR No. : TC127402400000027F
- 2 (i). Report No. : OS/141/02/2024
- 3 (i) Date : 20.02.2024
4. Sample Submitted By : Sri A. Sahoo, JSA,  
(Name and address) Regional Office, SPCB, Odisha, Rourkela
5. Reference Letter No. : 616 dt.13.02.2024
6. Date of sample receipt : 13.02.2024
7. Sample Description :
  - (i) Discipline : Chemical Testing  
(Biological Testing, Chemical testing)
  - (ii) Group : Water  
(Water/ Pollution and Environment / Atmospheric Pollution/ Soil and Hazardous Waste)
  - (iii) Sub Group : Drinking water  
(Surface water/ Ground water/ Drinking water / Wastewater/ Effluent/ Ambient Air/ Stack/ Soil and Hazardous Waste)
8. Analysis Starting Date-Analysis Completion Date : 13.02.2024 – 19.02.2024
9. If uncertainty is desired by Customer : No
10. Analysis Results :  
(Attach separate sheet if necessary)

Sl. No.	Parameter, Unit	Standards/ Regulatory Limits *		Test Method	Joint sampling in the matter of O.A no.- 25/2004/EZ
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		Others/ Feb - 24/DW/290
					Vedvyas Water Treatment Plant of WATCO
					<b>Results</b>
1.	pH	6.5-8.5	No relaxation	4500-H <sup>+</sup> -B, APHA, 23 <sup>rd</sup> Edn., 2017	7.1
2.	Total Suspended Solids (TSS), mg/L	-	-	2540 D, APHA, 23 <sup>rd</sup> Edn., 2017	11.0
3.	Total Dissolved Solids (TDS), mg/L	500, max	2000, max	2540 C, APHA, 23 <sup>rd</sup> Edn., 2017	132.0
4.	Dissolved Oxygen (DO), mg/L	-	-	4500-O-C, APHA, 23 <sup>rd</sup> Edn., 2017	8.6
5.	Biochemical Oxygen Demand (BOD, 3 days at 27 <sup>o</sup> C), mg/L	-	-	IS 3025: Part 44	1.2
6.	Chemical Oxygen Demand (COD), mg/L	-	-	5220 B, APHA, 23 <sup>rd</sup> Edn., 2017	16.0
7.	Nitrate as N (NO <sub>3</sub> <sup>-</sup> -N), mg/L	-	-	4500 - NO <sub>3</sub> <sup>-</sup> -E, APHA, 23 <sup>rd</sup> Edn., 2017	0.328
8.	Fluoride (F) mg/L	1.0	1.5	4500-F-C, APHA, 23 <sup>rd</sup> Edn., 2017	0.16

\* Drinking water specification, IS 10500: 2012

11. Deviation from Test Method, if any :
12. If Sampling Conducted by the Central Laboratory, Yes/ No. - No  
If Yes,
- (a) Date of Sampling :
- (b) Method Used\* :
- (c) Name of Sampler with Designation :

-----End of Test Report-----

*Usharani Patnaik*  
20.2.2024

Authorised Signatory  
(Water/wastewater)

(Dr. (Mrs)Usharani Patnaik, Addl. Chief Env. Scientist)

*Niranjan Mallick*  
20/2/24

Board Analyst

(Mr. Niranjan Mallick, Chief Env. Scientist)

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TEL : 2564033/2563294 EPABX : 2561909/2562847. E-mail : [paribesh1@ospcboard.org](mailto:paribesh1@ospcboard.org) Website : [www.ospcboard.org](http://www.ospcboard.org)

