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Action Taken Report (ATR) in light of the Notice dated 14/02/2023 issued by the Hon'ble National Green Tribunal (NGT), Principal Bench (PB), New Delhi in O. A. No. 124/2023 titled "Jamshedpur: Industrial Wastes adding to pollution level in River Subarnarekha".

1. In light of the Notice dated 14/02/2023 issued by the Hon'ble National Green Tribunal (NGT), Principal Bench (PB), New Delhi in O. A. No. 124/2023 titled "Jamshedpur: Industrial Wastes adding to pollution level in River Subarnarekha", the Regional Officer, JSPCB Regional Office - Cum - Laboratory, Jamshedpur was requested to send the inspection report via email dated 20/02/2023.

*The copy of the email dated 20/02/2023 is enclosed herewith as **Annexure 'A'**.*

2. The Regional Officer, JSPCB Regional Office - Cum - Laboratory, Jamshedpur vide his Ref. No. 172 dated 20/02/2023 has informed that no untreated industrial effluent is discharged into Subarnarekha river. M/s Tata Steel and M/s Tata Motors discharges their treated effluent in Subarnarekha river. Monthly test reports are submitted by the Units in this regard. Monthly river water analysis is carried out by Regional Office Cum Laboratory, Jamshedpur. The observed values of pH, D.O. are within prescribed standards of class-B of Designated best use, formulated by CPCB, (Report enclosed). Though Regional Office, Laboratory doesn't carry out the analysis work of hazardous trace metals, an analysis was carried out through M/s Scientific Research Laboratory in light

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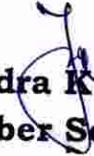
of O.A. No.-804/2017 at some probable contaminated sites related to Subarnarekha river and the lead value found there was below minimum detection limit.

*The copy of the Ref. No. 172 dated 20/02/2023 is enclosed herewith as **Annexure 'B'**.*

3. The Regional Officer, JSPCB Regional Office - Cum - Laboratory, Jamshedpur was directed to inspect and send inspection report ensuring collection and analysis of the water samples at the mentioned sites vide email dated 23/02/2023.

*The copy of the email dated 23/02/2023 is enclosed herewith as **Annexure 'C'**.*

4. It is prayed that analysis of the water samples of the River Subarnarekha is under process. After preparation of analysis report, the same along with the further Action Taken Report will be placed before the Hon'ble Tribunal.


(Yatindra Kumar Das)
Member Secretary,
SPCB, Jharkhand



Annexure - 'A'
JSPCB RANCHI <ranchijspcb@gmail.com>

③

Notice Regarding listing of OA- NO- 124/2023 on 01-03-2023

2 messages

Consultant Judicial-NGT(P.B.) <judicial-ngt@gov.in>

Wed, Feb 15, 2023 at 10:06 AM

Reply-To: "Consultant Judicial-NGT(P.B.)" <judicial-ngt@gov.in>

To: ranchijspcb@gmail.com, VIJAYA JADHAV IAS <dc-jsr@nic.in>, mangonotifiedarea@gmail.com

Sir/Madam

I am directed to send Notice and copy of the Petition of the matter which is listed on Wednesday 01-03-2023 in NGT through Physical Hearing (with Hybrid Option).

REGARDS

CONSULTANT (Judicial)

♣ (NG. T.)(P. B.) ♣



2 attachments

Jamshedpur OA.pdf
1341K

NOtice 124-2023.pdf
398K

JSPCB RANCHI <ranchijspcb@gmail.com>

Mon, Feb 20, 2023 at 9:21 PM

To: "JSPCB, Jamshedpur" <jspcb.jsr@gmail.com>

Sir,

Please send the inspection report in the light of NGT order.

Head Office,
JSPCB, Ranchi

[Quoted text hidden]

2 attachments

Jamshedpur OA.pdf
1341K

NOtice 124-2023.pdf
398K



Annexure - 'B'

JHARKHAND STATE POLLUTION CONTROL BOARD
REGIONAL OFFICE-CUM-LABORATORY, MB/15 NEW HOUSING COLONY
ADITYAPUR, JAMSHEDPUR.

Web Site- jspcb.org/ Phone- 0657-2383241/ Fax- 0657-2383905

(4)

Ref. No: -.....172.

Dated- 20/12/2023

From,

J.P. Singh
Regional Officer.

To,

The Member Secretary,
Jharkhand State Pollution Control Board,
Ranchi.

Sub: - Regarding O.A. No.-124/2023 titled "Jamshedpur Industrial waste adding to pollution level in river Subarnarekha".

Sir,

In light of above subject matter it is to inform that no untreated industrial effluent is discharged into Subarnrekha river. M/s Tata Steel and M/s Tata Motors discharges their treated effluent in Subarnarekha river. Monthly test report are submitted by the units in this regard and is being attached herewith. Monthly river water analysis is carried out by Regional Office Cum Laboratory, Jamshedpur. The observed values of pH, D.O. are within prescribed standards of class-B of Designated best use, formulated by CPCB, (Report enclosed). Though Regional Office, Laboratory doesn't carry out the analysis work of hazardous trace metals, an analysis was carried out through M/s Scientific Research Laboratory in light of O.A. No.-804/2017 at some probable contaminated sites related to swarnarekha river and the lead value found there was below minimum detection limit (Report enclosed).

This is for your information and necessary action.

- (i) Monthly effluent analysis report of M/s Tata Steel Ltd, Jamshedpur M/s Tata Motors Ltd, Jamshedpur.
- (ii) NWMP report of Nov, 2022, Dec 2022 & Jan, 2023.
- (iii) Water analysis reports by M/s Scientific Research Laboratory dated- 19.12.2022

Yours faithfully,

J.P. Singh
20.12.2023
(J.P. Singh)

Regional officer.

JHARKHAND STATE POLLUTION CONTROL BOARD
REGIONAL OFFICE-CUM-LABORATORY, M/B-15, NEW HOUSING COLONY
ADITYAPUR, JAMSHEDPUR

Analysis report under NWMP for the month of November, 2022

Sl. No.	Lab. Ref.	Water Code	Name of the Sampling Point	Date / Time of collection	Temp		D.O mg/l	pH	Cond. µohm/m2	B.O.D mg/l	Alk. Mg/l	Total Hard. mg/l	Ca++ mg/l	Mg++ mg/l	T.D.S mg/l	T.S.S mg/l	T.S mg/l
					A	W											
1	167/22	48	Chandil Road Bridge	11.11.2022 At-10.15AM	26.0	22.5	6.8	7.1	241.0	BDL	22.0	28.0	6.1	3.20	161.0	9.0	170.0
2	165/22	4744	On swarnrekha river before meeting to kharkai	11.11.2022 At-9.20AM	24.5	21.5	7.1	7.0	213.0	BDL	BDL	19.0	3.6	2.35	142.0	10.0	152.0
3	166/22	4746	On swarnrekha river after confluence kharkai river	11.11.2022 At-9.35AM	24.7	21.5	6.8	6.9	196.0	1.0	24.0	39.0	6.4	5.72	131.0	12.0	143.0
4	164/22	4745	On Kharkai river before meeting swarnrekha river	11.11.2022 At-9.10AM	24.5	21.0	6.0	6.7	213.0	1.4	28.0	83.0	21.5	7.10	142.0	13.0	155.0
5	163/22	49	D/S Mango, Jamshedpur	11.11.2022 At-8.30AM	24.0	21.0	6.2	6.9	208.0	1.6	34.0	58.0	14.2	5.54	139.0	9.0	148.0
6	170/22	4742	Galudih Barrage	11.11.2022 At-11.40AM	28.0	40.0	6.4	7.3	222.0	1.3	26.0	56.0	12.6	6.00	148.0	8.0	166.0
7	172/22	4743	U/s HCL Ghatsila	11.11.2022 At-4.10PM	28.5	25.0	6.5	7.1	211.0	1.1	23.0	66.0	22.1	2.75	141.0	7.0	148.0
8	174/22	24	D/s HCL Ghatsila	11.11.2022 At-4.40PM	28.0	24.5	6.4	6.9	192.0	1.2	25.0	35.0	8.0	3.74	128.0	9.0	137.0
9	171/22	4748	Bharagora Road Bridge	11.11.2022 At-1.0 PM	29.5	26.0	6.9	7.2	240.0	BDL	BDL	53.0	11.7	5.80	160.0	11.0	171.0
10	161/22	1036	Koel Karo River at Manoherpur	08.11.2022 At-11.20AM	29.0	26.0	7.3	7.5	226.0	BDL	22.0	45.0	13.0	3.16	151.0	7.0	158.0
11	168/22	2399	Chandil Dam	11.11.2022 At-10.25AM	26.0	23.0	7.2	7.3	185.0	BDL	BDL	44.0	7.3	6.36	130.0	13.0	143.0
12	169/22	2398	Dimna Lake	11.11.2022 At-11.0 AM	27.0	24.0	6.7	7.0	201.0	1.3	BDL	43.0	9.1	5.18	134.0	14.0	148.0
13	173/22	2387	Ghatsila Road Bridge	11.11.2022 At-4.20PM	28.0	25.0	7.4	7.2	193.0	BDL	26.0	48.0	11.0	4.90	129.0	12.0	141.0
14	162/22	4747	Koina River at Manoherpur	08.11.2022 At-12.10PM	31.0	28.0	7.0	7.4	234.0	BDL	37.0	64.0	12.8	7.84	156.0	13.0	189.0

MKS
17-12-22
(M.K. Choudhary)
S.T.

Amrita Mishra
17/12/22
(Amrita Mishra)
C.E.

J.P. Singh
19-12-2022
(J.P. Singh)
Regional Officer.

Board Analyst
21/12/2022

5

JHARKHAND STATE POLLUTION CONTROL BOARD
REGIONAL OFFICE-CUM-LABORATORY, M/B-15, NEW HOUSING COLONY
ADITYAPUR, JAMSHEDPUR

Analysis report under NWMP for the month of December, 2022

SL No.	Lab. Ref.	Water Code	Name of the Sampling Point	Date / Time of collection	Temp		D.O mg/l	pH	Cond. μ ohm/m ²	B.O.D mg/l	Alk. Mg/l	Total Hard. mg/l	Ca++ mg/l	Mg++ mg/l	T.D.S mg/l	T.S.S mg/l	T.S mg/l
					A	W											
1	181/22	48	Chandil Road Bridge	29.12.2022 At-9.40AM	22.5	19.0	7.0	7.3	237.0	BDL	23.0	29.0	5.7	3.60	158.0	11.0	169.0
2	179/22	4744	On swarnrekha river before meeting to kharkai	29.12.2022 At-8.30AM	21.0	18.0	6.8	7.0	241.0	1.1	BDL	21.0	3.8	2.75	161.0	13.0	174.0
3	180/22	4746	On swarnrekha river after confluence kharkai river	29.12.2022 At-8.45AM	21.0	18.0	6.5	6.8	219.0	1.3	21.0	41.0	5.9	6.34	146.0	15.0	161.0
4	178/22	4745	On Kharkai river before meeting swarnrekha river	29.12.2022 At-8.20AM	20.5	18.0	6.3	6.6	198.0	1.2	30.0	83.0	18.6	9.0	132.0	18.0	150.0
5	177/22	49	D/S Mango, Jamshedpur	29.12.2022 At-8.0 AM	20.0	18.0	6.2	6.8	192.0	1.7	32.0	59.0	15.3	5.14	128.0	14.0	142.0
6	184/22	4742	Galudih Barrage	29.12.2022 At-11.55AM	24.0	22.0	7.1	7.1	207.0	BDL	23.0	54.0	12.4	5.5	138.0	9.0	147.0
7	185/22	4743	U/s HCL Ghatsila	29.12.2022 At-12.35AM	26.0	23.0	7.0	7.2	235.0	BDL	BDL	65.0	20.8	3.17	157.0	8.0	165.0
8	187/22	24	D/s HCL Ghatsila	29.12.2022 At-2.15 PM	25.5	23.0	7.1	7.0	168.0	1.2	26.0	38.0	8.3	4.2	112.0	10.0	122.0
9	188/22	4748	Bharagora Road Bridge	29.12.2022 At-4.45PM	22.0	20.0	7.3	7.3	231.0	BDL	BDL	47.0	11.2	4.7	154.0	7.0	161.0
10	175/22	1036	Koel Karo River at Manoherpur	20.12.2022 At-11.30AM	24.0	22.0	6.9	6.9	208.0	1.0	27.0	45.0	11.8	3.75	139.0	12.0	151.0
11	182/22	2399	Chandil Dam	29.12.2022 At-10.05AM	22.5	20.0	7.2	7.1	181.0	BDL	BDL	43.0	8.2	5.46	121.0	8.0	129.0
12	183/22	2398	Dimna Lake	29.12.2022 At-12.50 PM	23.0	21.0	7.0	7.0	213.0	1.1	24.0	47.0	8.6	6.27	142.0	16.0	158.0
13	186/22	2387	Ghatsila Road Bridge	29.12.2022 At-12.20 PM	26.5	24.0	7.6	7.2	189.0	BDL	BDL	54.0	12.3	5.72	126.0	18.0	144.0
14	176/22	4747	Koina River at Manoherpur	20.12.2022 At-12.10PM	25.0	23.0	7.3	7.5	244.0	BDL	36.0	62.0	10.9	8.6	163.0	13.0	176.0

MKC
07/01/2023
(M.K. Choudhary)
S.T.

Amrita
07/01/2023
(Amrita Mishra)
C.E.

JP88
07/01/2023
(J.P. Singh)
Regional Officer.

Amrita
Board Analyst 11/01/2023

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JHARKHAND STATE POLLUTION CONTROL BOARD
REGIONAL OFFICE-CUM-LABORATORY, M/B-15, NEW HOUSING COLONY
ADITYAPUR, JAMSHEDPUR

Analysis report under NWMP for the month of January, 2023

Sl. No.	Lab. Ref.	Water Code	Name of the Sampling Point	Date / Time of collection	Temp		D.O mg/l	pH	Cond. µmhos/cm2	B.O.D mg/l	Alk. Mg/l	Total Hard. mg/l	Ca++ mg/l	Mg++ mg/l	T.D.S mg/l	T.S.S mg/l	T.S mg/l
					A	W											
1	10/23	48	Chandil Road Bridge	29.01.2023 At-9.35AM	24.0	22.0	6.8	7.1	241.0	BDL	21.0	29.0	6.1	3.40	161.0	13.0	174.0
2	08/23	4744	On swarnashikha river before meeting to Khairtal	29.01.2023 At-8.20AM	21.0	19.0	6.6	7.3	238.0	1.3	24	23.0	4.2	3.17	139.0	13.0	174.0
3	09/23	4746	On swarnashikha river after confluence Khairtal river	29.01.2023 At-08.30AM	21.5	19.0	6.5	6.9	222.0	1.8	26.0	44.0	5.3	7.50	148.0	14.0	162.0
4	07/23	4745	On Khairtal river before meeting swarnashikha river	29.01.2023 At-08.10AM	21.0	19.0	6.2	8.8	216.0	1.8	32.0	87.0	16.4	11.22	144.0	17.0	161.0
5	06/23	49	D/S Mango, Jamshedpur	29.01.2023 At-7.30 AM	20.0	18.0	6.0	6.7	193.0	2.1	37.0	83.0	14.7	6.40	129.0	18.0	147.0
6	01/23	4742	Gabulth Barrage	23.01.2023 At-8.0 AM	19.0	16.0	7.2	7.2	228.0	1.1	26.0	53.0	13.3	4.81	152.0	10.0	162.0
7	03/23	4743	U/s HCL Ghatala	24.01.2023 At-8.10 AM	18.5	15.5	7.0	7.0	246.0	1.2	23	67.0	22.0	3.00	164.0	12.0	176.0
8	03/23	24	D/s HCL Ghatala	24.01.2023 At-7.30AM	17.0	15.0	6.9	6.8	188.0	1.3	21.0	42.0	7.8	5.88	126.0	11.0	137.0
9	02/23	4748	Bharugora Road Bridge	23.01.2023 At-12.40PM	26.0	23.0	7.2	7.3	256.0	BDL	BDL	41.0	9.9	3.92	170.0	8.0	179.0
10	13/23	1636	Kool Karo River at Manoharpur	31.01.2023 At-11.45AM	28.0	25.0	6.7	6.8	198.0	1.4	31.0	47.0	13.5	3.20	133.0	16.0	149.0
11	11/23	2399	Chandil Dam	29.01.2023 At-10.00AM	24.5	22.0	7.1	7.0	222.0	BDL	BDL	42.0	9.2	4.61	148.0	11.0	159.0
12	12/23	2398	Dimas Lake	24.01.2023 At-10.45AM	25.0	23.0	6.8	7.4	244.0	1.3	30.0	46.0	8.9	5.80	163.0	17.0	180.0
13	04/23	2387	Ghatala Road Bridge	31.01.2023 At-8.00 AM	17.5	15.0	7.4	7.3	192.0	1.2	28	37.0	11.2	7.13	128.0	15.0	143.0
14	14/23	4747	Koira River at Manoharpur	31.01.2023 At-12.15 PM	29.0	26.0	6.9	7.4	238.0	1.5	33.0	61.0	13.0	6.88	159.0	16.0	175.0

M.K.C.
20-02-2023
(M.K. Choudhary)
S.T.

(Signature)
20/02/2023
(Anrita Mishra)
C.E.

(Signature)
20-02-2023
(J.P. Singh)
Regional Officer.

(Signature)
Board Analyst
20/02/2023



SCIENTIFIC RESEARCH LABORATORY

(Analytical & Environmental Engineering Laboratory)

Laboratory Recognised By Ministry of Environment, Forest and Climate Change, Government of India

Laboratory Recognised By Jharkhand State Pollution Control Board

Laboratory Recognised By West Bengal Pollution Control Board

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 (OHSAS) Certified

8

90, Lake East (4th Road) Santoshpur, Jadavpur, Kolkata - 700 075

Tele Fax : (033) 2416 2267, Tel. : (033) 2416 1311, E-mail : jyotirmoysrl@gmail.com, srkolenvironmental@gmail.com

Website : www.srkkolkata.com

[ULR- TC764922000003241F]

[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / JSPCB / SW- 724-2022 Dated: 20.12.2022]

A. SAMPLE DETAILS:-

Name & Address of the Customer	: JHARKHAND STATE POLLUTION CONTROL BOARD Jamshedpur Regional Office M.15, New Housing Colony, Adityapur Jamshedpur - 839018		
Sample Type	: Surface Water (River Water)		
Sampling Location	: Damohani kharkai River, Jamshedpur, Jharkhand-831001 Lat:22.83549N, Long:86.16171E		
Sample Identification No.	: SW- 724-2022		
Test Requirement	: Chemical		
Sampling Method	: APHA 23 rd Edition, 1060B		
Sample Collected By	: Scientific Research Laboratory		
Sample Preservation	: Preserved	Environmental Condition	: Clear
Water Sampling Date	: 05.12.2022	Sample Receiving Date	: 06.12.2022
Analysis Started On	: 06.12.2022	Analysis Completed On	: 19.12.2022

B. RESULTS

Sl. No	Characteristic	Minimum Detection Limit	Results	Test Method Specification
			SW-724-2022	
Organoleptic and Physical Parameters				
i)	Colour, Hazen Units	5	<5	APHA 23 rd Edition, 2120 B
ii)	pH Value	2	7.43	APHA 23 rd Edition, 4500-H ⁺ B
iii)	Dissolve Oxygen, mg/L	1	6.8	APHA 23 rd Edition, 4500-O C
iv)	Conductivity at 25°C, µmhos/cm	10 µs/cm	438.0	APHA 23 rd Edition, 2510 B
v)	Total Dissolved Solids, mg/L	10	250.0	APHA 23 rd Edition, 2540 C
General Parameters Concerning Substances Undesirable in Excessive Amounts				
i)	Chloride (as Cl), mg/L	2	32.0	APHA 23 rd Edition, 4500-Cl B
ii)	Copper (as Cu), mg/L	0.05	<0.05	APHA 23 rd Edition, 3111 B
iii)	Fluoride (as F), mg/L	0.05	0.31	APHA 23 rd Edition, 4500-F D
iv)	Iron (as Fe), mg/L	0.1	0.47	APHA 23 rd Edition, 3500-Fe B
v)	Manganese (as Mn), mg/L	0.05	0.08	APHA 23 rd Edition, 3111 B
vi)	Nitrate (as NO ₃), mg/L	0.5	13.42	APHA 23 rd Edition, 4500-NO ₃ -B
vii)	Sulphate (as SO ₄), mg/L	2.5	39.0	APHA 23 rd Edition, 4500-SO ₄ ²⁻ E
viii)	Sulphide (as S), mg/L	0.5	<0.5	APHA 23 rd Edition, 4500-S ²⁻ F
ix)	Total Hardness (as CaCO ₃), mg/L	5	149.0	APHA 23 rd Edition, 2340 C
x)	Phosphate (as PO ₄), mg/L	0.03	0.32	APHA 23 rd Edition, 4500-P D
xi)	Oil and Grease (Hexane Extract), mg/L	5.0	<5.0	APHA 23 rd Edition, 5520 B
xii)	Zinc (as Zn), mg/L	0.01	0.033	APHA 23 rd Edition, 3111 B
Parameters Concerning Toxic Substances				
i)	Cadmium (as Cd), mg/L	0.02	<0.02	APHA 23 rd Edition, 3111 B
ii)	Cyanide (as CN), mg/L	0.02	<0.02	APHA 23 rd Edition, 4500-CN E
iii)	Cobalt (as Co), mg/L	0.1	<0.1	APHA 23 rd Edition, 3111 B
iv)	Lead (as Pb), mg/L	0.1	<0.1	APHA 23 rd Edition, 3111 B
v)	Mercury (as Hg), mg/L	0.001	<0.001	APHA 23 rd Edition, 3112 B
vi)	Nickel (as Ni), mg/L	0.05	<0.05	APHA 23 rd Edition, 3111 B
vii)	Total Arsenic (as As), mg/L	0.01	<0.01	APHA 23 rd Edition, 3114 C
viii)	Total Chromium (as Cr), mg/L	0.05	<0.05	APHA 23 rd Edition, 3111 B
ix)	Chromium (as Cr ⁶⁺), mg/L	0.01	<0.01	APHA 23 rd Edition, 3500-Cr B

Dr. Jyotirmoy Majumdar
(Authorized Signatory)

—End of Test Report—

- The test report shall not be reproduced, except in full, without written approval of the company.
- Results relate only to the parameters tested.
- No Repeat Analysis will be entertained after 15 days from the date of reporting.
- All relevant information of customers regarding testing are treated as "Confidential"



SCIENTIFIC RESEARCH LABORATORY

(Analytical & Environmental Engineering Laboratory)

Laboratory Recognised By Ministry of Environment, Forest and Climate Change, Government of India

Laboratory Recognised By Jharkhand State Pollution Control Board

Laboratory Recognised By West Bengal Pollution Control Board

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 (OHSAS) Certified

90, Lake East (4th Road) Santoshpur, Jadavpur, Kolkata - 700 075

Tele Fax : (033) 2416 2267, Tel. : (033) 2416 1311, E-mail : jyotirmoysrl@gmail.com, srkolenvironmental@gmail.com

Website : www.srlkolkata.com

[ULR- TC764922000003248F]

[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / JSPCB / SW- 731-2022 Dated: 20.12.2022]

A. SAMPLE DETAILS:-

Name & Address of the Customer	: JHARKHAND STATE POLLUTION CONTROL BOARD Jamshedpur Regional Office M.15, New Housing Colony, Adityapur Jamshedpur - 839018		
Sample Type	: Surface Water (River Water)		
Sampling Location	: Ghatsila, Subamarekha River, East Singhbhum, Jharkhand-831001, Lat:22.5915N, Long:86.4531E		
Sample Identification No.	: SW- 731-2022		
Test Requirement	: Chemical		
Sampling Method	: APHA 23 rd Edition, 1060B		
Sample Collected By	: Scientific Research Laboratory		
Sample Preservation	: Preserved	Environmental Condition	: Clear
Water Sampling Date	: 06.12.2022	Sample Receiving Date	: 06.12.2022
Analysis Started On	: 06.12.2022	Analysis Completed On	: 19.12.2022

B. RESULTS

Sl. No	Characteristic	Minimum Detection Limit	Results	Test Method Specification
			SW-731-2022	
Organoleptic and Physical Parameters				
i)	Colour, Hazen Units	5	<5	APHA 23 rd Edition, 2120 B
ii)	pH Value	2	6.69	APHA 23 rd Edition, 4500-H ⁺ B
iii)	Dissolve Oxygen, mg/L	1	6.4	APHA 23 rd Edition, 4500-O C
iv)	Conductivity at 25°C, μ hos/cm	10 μ s/cm	1040.0	APHA 23 rd Edition, 2510 B
v)	Total Dissolved Solids, mg/L	10	624.0	APHA 23 rd Edition, 2540 C
General Parameters Concerning Substances Undesirable in Excessive Amounts				
i)	Chloride (as Cl), mg/L	2	110.0	APHA 23 rd Edition, 4500-Cl B
ii)	Copper (as Cu), mg/L	0.05	<0.05	APHA 23 rd Edition, 3111 B
iii)	Fluoride (as F), mg/L	0.05	0.42	APHA 23 rd Edition, 4500-F D
iv)	Iron (as Fe), mg/L	0.1	2.78	APHA 23 rd Edition, 3500-Fe B
v)	Manganese (as Mn), mg/L	0.05	0.337	APHA 23 rd Edition, 3111 B
vi)	Nitrate (as NO ₃), mg/L	0.5	38.26	APHA 23 rd Edition, 4500-NO ₃ -B
vii)	Sulphate (as SO ₄), mg/L	2.5	121.0	APHA 23 rd Edition, 4500-SO ₄ E
viii)	Sulphide (as S), mg/L	0.5	<0.5	APHA 23 rd Edition, 4500-S ²⁻ F
ix)	Total Hardness (as CaCO ₃), mg/L	5	310.0	APHA 23 rd Edition, 2340 C
x)	Phosphate (as PO ₄), mg/L	0.03	0.021	APHA 23 rd Edition, 4500-P D
xi)	Oil and Grease (Hexane Extract), mg/L	5.0	<5.0	APHA 23 rd Edition, 5520 B
xii)	Zinc (as Zn), mg/L	0.01	0.158	APHA 23 rd Edition, 3111 B
Parameters Concerning Toxic Substances				
i)	Cadmium (as Cd), mg/L	0.02	<0.02	APHA 23 rd Edition, 3111 B
ii)	Cyanide (as CN), mg/L	0.02	<0.02	APHA 23 rd Edition, 4500-CN E
iii)	Cobalt (as Co), mg/L	0.1	<0.1	APHA 23 rd Edition, 3111 B
iv)	Lead (as Pb), mg/L	0.1	<0.1	APHA 23 rd Edition, 3111 B
v)	Mercury (as Hg), mg/L	0.001	<0.001	APHA 23 rd Edition, 3112 B
vi)	Nickel (as Ni), mg/L	0.05	<0.05	APHA 23 rd Edition, 3111 B
vii)	Total Arsenic (as As), mg/L	0.01	<0.01	APHA 23 rd Edition, 3114 C
viii)	Total Chromium (as Cr), mg/L	0.05	<0.05	APHA 23 rd Edition, 3111 B
ix)	Chromium (as Cr ⁶⁺), mg/L	0.01	<0.01	APHA 23 rd Edition, 3500-Cr B

Dr. Jyotirmoy Majumdar
(Authorized Signatory)

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SCIENTIFIC RESEARCH LABORATORY

(Analytical & Environmental Engineering Laboratory)

Laboratory Recognised By Ministry of Environment, Forest and Climate Change, Government of India

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Laboratory Recognised By West Bengal Pollution Control Board

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 (OHSAS) Certified

90, Lake East (4th Road) Santoshpur, Jadavpur, Kolkata - 700 075

Tele Fax : (033) 2416 2267, Tel. : (033) 2416 1311, E-mail : jyotirmoysrl@gmail.com, srkolenvironmental@gmail.com

Website : www.srkolkata.com

[ULR- TC76492200003248F]

[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / JSPCB / SW- 729-2022 Dated: 20.12.2022]

A. SAMPLE DETAILS:-

Name & Address of the Customer	: JHARKHAND STATE POLLUTION CONTROL BOARD Jamshedpur Regional Office M.15, New Housing Colony, Adityapur Jamshedpur - 839018		
Sample Type	: Surface Water (River Water)		
Sampling Location	: Lupungdhi Subamarekha River polluted site, East Singbhum, Jharkhand-831001, Lat:22.7820112N, Long:86.29601E		
Sample Identification No.	: SW- 729-2022		
Test Requirement	: Chemical		
Sampling Method	: APHA 23 rd Edition, 1060B		
Sample Collected By	: Scientific Research Laboratory		
Sample Preservation	: Preserved	Environmental Condition	: Clear
Water Sampling Date	: 06.12.2022	Sample Receiving Date	: 06.12.2022
Analysis Started On	: 06.12.2022	Analysis Completed On	: 19.12.2022

B. RESULTS

Sl. No	Characteristic	Minimum Detection Limit	Results	Test Method Specification
			SW-729-2022	
Organoleptic and Physical Parameters				
i)	Colour, Hazen Units	5	<5	APHA 23 rd Edition, 2120 B
ii)	pH Value	2	7.26	APHA 23 rd Edition, 4500-H+ B
iii)	Dissolve Oxygen, mg/L	1	6.8	APHA 23 rd Edition, 4500-O C
iv)	Conductivity at 25°C, $\mu\text{hos/cm}$	10 $\mu\text{s/cm}$	354.0	APHA 23 rd Edition, 2510 B
v)	Total Dissolved Solids, mg/L	10	204.0	APHA 23 rd Edition, 2540 C
General Parameters Concerning Substances Undesirable in Excessive Amounts				
i)	Chloride (as Cl), mg/L	2	19.0	APHA 23 rd Edition, 4500-Cl B
ii)	Copper (as Cu), mg/L	0.05	<0.05	APHA 23 rd Edition, 3111 B
iii)	Fluoride (as F), mg/L	0.05	0.32	APHA 23 rd Edition, 4500-F D
iv)	Iron (as Fe), mg/L	0.1	0.22	APHA 23 rd Edition, 3500-Fe B
v)	Manganese (as Mn), mg/L	0.05	0.111	APHA 23 rd Edition, 3111 B
vi)	Nitrate (as NO ₃), mg/L	0.5	0.75	APHA 23 rd Edition, 4500-NO ₃ -B
vii)	Sulphate (as SO ₄), mg/L	2.5	37.0	APHA 23 rd Edition, 4500-SO ₄ -E
viii)	Sulphide (as S), mg/L	0.5	<0.5	APHA 23 rd Edition, 4500-S ²⁻ F
ix)	Total Hardness (as CaCO ₃), mg/L	5	137.0	APHA 23 rd Edition, 2340 C
x)	Phosphate (as PO ₄), mg/L	0.03	0.024	APHA 23 rd Edition, 4500-P D
xi)	Oil and Grease (Hexane Extract), mg/L	5.0	<5.0	APHA 23 rd Edition, 5520 B
xii)	Zinc (as Zn), mg/L	0.01	0.022	APHA 23 rd Edition, 3111 B
Parameters Concerning Toxic Substances				
i)	Cadmium (as Cd), mg/L	0.02	<0.02	APHA 23 rd Edition, 3111 B
ii)	Cyanide (as CN), mg/L	0.02	<0.02	APHA 23 rd Edition, 4500-CN E
iii)	Cobalt (as Co), mg/L	0.1	<0.1	APHA 23 rd Edition, 3111 B
iv)	Lead (as Pb), mg/L	0.1	<0.1	APHA 23 rd Edition, 3111 B
v)	Mercury (as Hg), mg/L	0.001	<0.001	APHA 23 rd Edition, 3112 B
vi)	Nickel (as Ni), mg/L	0.05	<0.05	APHA 23 rd Edition, 3111 B
vii)	Total Arsenic (as As), mg/L	0.01	<0.01	APHA 23 rd Edition, 3114 C
viii)	Total Chromium (as Cr), mg/L	0.05	<0.05	APHA 23 rd Edition, 3111 B
ix)	Chromium (as Cr ⁶⁺), mg/L	0.01	<0.01	APHA 23 rd Edition, 3500-Cr B

Dr. Jyotirmoy Majumdar
(Authorized Signatory)

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Website : www.srkolkata.com

[ULR- TC764922008003242F]

[Format No. : SRL / FRM /17]

TEST REPORT

[Report No. SRL / JSPCB / SW- 725-2022 Dated: 20.12.2022]

A. SAMPLE DETAILS:-

Name & Address of the Customer	: JHARKHAND STATE POLLUTION CONTROL BOARD Jamshedpur Regional Office M.15, New Housing Colony, Adityapur Jamshedpur - 839018		
Sample Type	: Surface Water (River Water)		
Sampling Location	: Manikul-Chandi swarnarekha river polluted site, seraikela kharswan, Jharkhand Lat:22.835772N, Long:86.160685E		
Sample Identification No.	: SW- 725-2022		
Test Requirement	: Chemical		
Sampling Method	: APHA 23 rd Edition, 1060B		
Sample Collected By	: Scientific Research Laboratory		
Sample Preservation	: Preserved	Environmental Condition	: Clear
Water Sampling Date	: 05.12.2022	Sample Receiving Date	: 06.12.2022
Analysis Started On	: 06.12.2022	Analysis Completed On	: 19.12.2022

B. RESULTS

Sl. No	Characteristic	Minimum Detection Limit	Results	Test Method Specification
			SW-725-2022	
Organoleptic and Physical Parameters				
i)	Colour, Hazen Units	5	<5	APHA 23 rd Edition, 2120 B
ii)	pH Value	2	6.04	APHA 23 rd Edition, 4500-H ⁺ B
iii)	Dissolve Oxygen, mg/L	1	8.5	APHA 23 rd Edition, 4500-O C
iv)	Conductivity at 25°C, μ hos/cm	10 μ s/cm	214.0	APHA 23 rd Edition, 2510 B
v)	Total Dissolved Solids, mg/L	10	116.0	APHA 23 rd Edition, 2540 C
General Parameters Concerning Substances Undesirable in Excessive Amounts				
i)	Chloride (as Cl), mg/L	2	15.0	APHA 23 rd Edition, 4500-Cl B
ii)	Copper (as Cu), mg/L	0.05	<0.05	APHA 23 rd Edition, 3111 B
iii)	Fluoride (as F), mg/L	0.05	0.23	APHA 23 rd Edition, 4500-F D
iv)	Iron (as Fe), mg/L	0.1	<0.1	APHA 23 rd Edition, 3500-Fe B
v)	Manganese (as Mn), mg/L	0.05	0.058	APHA 23 rd Edition, 3111 B
vi)	Nitrate (as NO ₃), mg/L	0.5	0.51	APHA 23 rd Edition, 4500-NO ₃ -B
vii)	Sulphate (as SO ₄), mg/L	2.5	13.5	APHA 23 rd Edition, 4500-SO ₄ -E
viii)	Sulphide (as S), mg/L	0.5	<0.5	APHA 23 rd Edition, 4500-S ²⁻ F
ix)	Total Hardness (as CaCO ₃), mg/L	5	69.0	APHA 23 rd Edition, 2340 C
x)	Phosphate (as PO ₄), mg/L	0.03	0.021	APHA 23 rd Edition, 4500-P D
xi)	Oil and Grease (Hexane Extract), mg/L	5.0	<5.0	APHA 23 rd Edition, 5520 B
xii)	Zinc (as Zn), mg/L	0.01	0.012	APHA 23 rd Edition, 3111 B
Parameters Concerning Toxic Substances				
i)	Cadmium (as Cd), mg/L	0.02	<0.02	APHA 23 rd Edition, 3111 B
ii)	Cyanide (as CN), mg/L	0.02	<0.02	APHA 23 rd Edition, 4500-CN E
iii)	Cobalt (as Co), mg/L	0.1	<0.1	APHA 23 rd Edition, 3111 B
iv)	Lead (as Pb), mg/L	0.1	<0.1	APHA 23 rd Edition, 3111 B
v)	Mercury (as Hg), mg/L	0.001	<0.001	APHA 23 rd Edition, 3112 B
vi)	Nickel (as Ni), mg/L	0.05	<0.05	APHA 23 rd Edition, 3111 B
vii)	Total Arsenic (as As), mg/L	0.01	<0.01	APHA 23 rd Edition, 3114 C
viii)	Total Chromium (as Cr), mg/L	0.05	<0.05	APHA 23 rd Edition, 3111 B
ix)	Chromium (as Cr ⁶⁺), mg/L	0.01	<0.01	APHA 23 rd Edition, 3500-Cr B

Dr. Jyotirmoy Majumdar
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SL No.	Parameters	Method of Analysis ^a	Units	Norms ^a	Result
1	Ammonical Nitrogen (as N)	APHA 23 rd Edition 2017; 4500 NH ³ B, C	mg/L	< 50	17.13
2	Biochemical Oxygen demand	IS 3025 (Part 44)	mg/L	< 30	8.8
3	Cadmium (as Cd)	APHA 23 rd Edition 2017; 3120 B	mg/L	< 2.0	< 0.01
4	Chemical Oxygen Demand	APHA 23 rd Edition 2017; 5220 D	mg/L	< 250	91
5	Copper (as Cu)	APHA 23 rd Edition 2017; 3120 B	mg/L	< 3.0	< 0.10
6	Cyanide (as CN)	APHA 23 rd Edition 2017; 4500 CN- C, F	mg/L	< 0.2	0.18
7	Dissolved Phosphates (as P)	APHA 23 rd Edition 2017; 4500 P D	mg/L	< 5.0	0.09
8	Hexavalent Chromium (as Cr (VI))	APHA 23 rd Edition 2017; 3500 Cr B	mg/L	< 0.1	0.08
9	Iron (as Fe)	APHA 23 rd Edition 2017; 3120 B	mg/L	< 3.0	0.06
10	Lead (as Pb)	APHA 23 rd Edition 2017; 3120 B	mg/L	< 0.1	< 0.01
11	Manganese (as Mn)	APHA 23 rd Edition 2017; 3120 B	mg/L	< 2.0	< 0.02
12	Nickel (as Ni)	APHA 23 rd Edition 2017; 3120 B	mg/L	< 3.0	0.1
13	Nitrate Nitrogen	APHA 23 rd Edition 2017; 4500 NO ₃ - B	mg/L	< 10.0	9.3
14	pH Value	APHA 23 rd Edition 2017; 4500-H+ B	—	5.5 – 9.0	8.22
15	Phenolic Compounds	APHA 23 rd Edition, 2017; 5530 B, D	mg/L	< 1.0	0.23
16	Selenium (as Se)	APHA 23 rd Edition 2017; 3120 B	mg/L	< 0.05	< 0.01
17	Sulphide (as S)	APHA 23 rd Edition 2017; 4500 S ₂ - F	mg/L	< 2.0	< 0.10
18	Suspended Solids	APHA 23 rd Edition 2017; 2540 D	mg/L	< 100	52
19	Total Chromium (as Cr)	APHA 23 rd Edition 2017; 3120 B	mg/L	< 2.0	< 0.02
20	Total Residual Chlorine	APHA 23 rd Edition 2017; 4500 Cl B	mg/L	< 1.0	< 1.0
21	Zinc (As Zn)	APHA 23 rd Edition 2017; 3120 B	mg/L	< 5.0	0.07
22	Arsenic (as As)	APHA 23 rd Edition 2017; 3120; B	mg/L	< 0.2	< 0.02
23	Free ammonia (as NH ₃)	APHA 23 rd Edition 2017; 4500 NH ₃ D	mg/L	< 5.0	4.8
24	Mercury (as Hg)	APHA 23 rd Edition 2017; 3120 B	mg/L	< 0.01	NT
25	Oil and grease	APHA 23 rd Edition 2017; 5520 B	mg/L	< 10	2.4
26	Total Kjeldahl Nitrogen (as NH ₃)	APHA 23 rd Edition 2017; 4500 Norg B	mg/L	< 100	28.34
27	Vanadium (as V)	APHA 23 rd Edition 2017; 3120 B	mg/L	< 0.2	NT

NOTE:

Standards applicable as per Environment (Protection) (Third Amendment) Rules, 2012 issued in Gazette of India Notification vide No.: G. S. R. 277 (E) dated March 31, 2012

UoM - Unit of Measurement

APHA – American Public Health Association

NT- Not Traced

§ This test report was generated by TATA STEEL LIMITED JSR EMD LAB having NABL Accreditation No.TC-8363

SL No.	Parameters	Method of Analysis ^a	Units	Norms ^a	Result
1	Ammonical Nitrogen (as N)	APHA 23rd Edition 2017; 4500 NH3 B, C	mg/L	< 50	17.91
2	Biochemical Oxygen demand	IS 3025 (Part 44)	mg/L	< 30	9
3	Cadmium (as Cd)	APHA 23rd Edition 2017; 3120 B	mg/L	< 2.0	< 0.01
4	Chemical Oxygen Demand	APHA 23rd Edition 2017; 5220 D	mg/L	< 250	82
5	Copper (as Cu)	APHA 23rd Edition 2017; 3120 B	mg/L	< 3.0	< 0.05
6	Cyanide (as CN-)	APHA 23rd Edition 2017; 4500 CN- C, F	mg/L	< 0.2	0.18
7	Dissolved Phosphates (as P)	APHA 23rd Edition 2017; 4500 P D	mg/L	< 5.0	0.11
8	Hexavalent Chromium (as Cr (VI))	APHA 23rd Edition 2017; 3500 Cr B	mg/L	< 0.1	< 0.05
9	Iron (as Fe)	APHA 23rd Edition 2017; 3120 B	mg/L	< 3.0	0.07
10	Lead (as Pb)	APHA 23rd Edition 2017; 3120 B	mg/L	< 0.1	< 0.01
11	Manganese (as Mn)	APHA 23rd Edition 2017; 3120 B	mg/L	< 2.0	< 0.02
12	Nickel (as Ni)	APHA 23rd Edition 2017; 3120 B	mg/L	< 3.0	0.1
13	Nitrate Nitrogen	APHA 23rd Edition 2017; 4500 NO3- B	mg/L	< 10.0	4.31
14	pH Value	APHA 23rd Edition 2017; 4500-H+ B	---	5.5 – 9.0	7.93
15	Phenolic Compounds	APHA 23rd Edition, 2017; 5530 B, D	mg/L	< 1.0	0.15
16	Selenium (as Se)	APHA 23rd Edition 2017; 3120 B	mg/L	< 0.05	< 0.01
17	Sulphide (as S)	APHA 23rd Edition 2017; 4500 S2- F	mg/L	< 2.0	< 0.10
18	Suspended Solids	APHA 23rd Edition 2017; 2540 D	mg/L	< 100	68
19	Total Chromium (as Cr)	APHA 23rd Edition 2017; 3120 B	mg/L	< 2.0	< 0.02
20	Total Residual Chlorine	APHA 23rd Edition 2017; 4500 Cl B	mg/L	< 1.0	< 1.0
21	Zinc (As Zn)	APHA 23rd Edition 2017; 3120 B	mg/L	< 5.0	< 0.05
22	Arsenic (as As)	APHA 23rd Edition 2017; 3120; B	mg/L	< 0.2	< 0.02
23	Free ammonia (as NH3)	APHA 23rd Edition 2017; 4500 NH3 D	mg/L	< 5.0	< 5.0
24	Mercury (as Hg)	APHA 23rd Edition 2017; 3120 B	mg/L	< 0.01	NT
25	Oil and grease	APHA 23rd Edition 2017; 5520 B	mg/L	< 10	2
26	Total Kjeldahl Nitrogen (as NH3)	APHA 23rd Edition 2017; 4500 Norg B	mg/L	< 100	30.24
27	Vanadium (as V)	APHA 23rd Edition 2017; 3120 B	mg/L	< 0.2	NT

NOTE:

Standards applicable as per Environment (Protection) (Third Amendment) Rules, 2012 issued in Gazette of India Notification vide No.: G. S. R. 277 (E) dated March 31, 2012

UoM - Unit of Measurement

APHA – American Public Health Association

NT- Not Traced

§ This test report was generated by TATA STEEL LIMITED JSR EMD LAB having NABL Accreditation No.TC-8363



14

ISSUED:

M/s.TATAMOTORS LIMITED
Jamshedpur 831010
Jharkhand, India.

Report Number: VLL/VLS/22/MW/17019/067
Issue date: 2023.02.08
P.O. No. & date: 3430053969 & 25.04.2022,
AMD 05.01.2023

01 of 01

Customer Provided Details :	
Sample Name:	Package STP OUTLET
Test Required:	pH, TSS, TDS, O&G, BOD, COD, Total Nitrogen, Total Po4,Cr+6,Cu,Zn,CN-,Ni,Fe,Cl, SO ₄ and Fecal Coliform
Lab Provided Details :	
Sampling Date:	2023.01.27
Analysis Starting Date:	2023.01.30
Quantity Received :	1000 ml X 2 No's
Sampling Details :	Package STP OUTLET
Method of Testing :	As per APHA 23 rd Edition & IS 3025 Part-44
Other Details if Any :	NA

TEST RESULTS

S. No	Test parameters	Unit of Measurement	Method of Testing	Results	CPCB Limits
1	pH	-	APHA 23 rd ed.(4500-H+ B)	7.37	5.5-9.0
2	Total Suspended Solids	mg/l	APHA 23 rd ed.(2540 D)	21.2	<100
3	Total Dissolved Solids	mg/l	APHA 23 rd ed.(2540 C)	397	<2100
4	Oil and Grease	mg/l	APHA 23 rd ed.(5520 C)	<1.0	<10
5	Biochemical Oxygen Demand 3 Day at 27 °C	mg/l	IS:3025 (Part-44):2009	7.4	<30
6	Chemical Oxygen Demand	mg/l	APHA 23 rd ed.(5220 B)	40	<250
7	Total Nitrogen as N	mg/l	APHA-23 rd ed. 4500-Norg-B 2012	<1.0	100
8	Total Phosphate as PO ₄	mg/l	APHA - 23 rd ed. (4500-P.D)	0.24	5.0
9	Hexavalent Chromium as Cr ⁶⁺	mg/l	APHA 23 rd ed.(5220 B)	<0.05	0.1
10	Copper as Cu	mg/l	APHA 23 rd ed.(3120 B)	<0.01	3.0
11	Zinc as Zn	mg/l	APHA 23 rd ed.(3120 B)	<0.01	5.0
12	Cyanide as CN	mg/l	APHA 23 rd ed.(5220 B)	<0.02	0.2
13	Nickel as Ni	mg/l	APHA 23 rd ed.(3120 B)	<0.01	3.0
14	Iron as Fe	mg/l	APHA 23 rd ed.(3120 B)	0.06	3.0
15	Chloride as Cl	mg/l	APHA-23 rd ed.(4500-Cl B)	140	-
16	Sulphate as SO ₄	mg/l	APHA 23 rd ed.(5220 B)	50.5	-
17	Fecal Coliform	MPN per 100ml	EPA Method 1681	140	<1000

Remarks: Results relate to the sample tested.

Instrument used: BOD Incubator (Make: Technico, S.No. LV-C-149, Calibration on: 24/11/2022, Calibration due date: 3/05/2023, ID No. VLS-EC/BOD/01), COD Digester (Make: B&K COD Digester, S. No: 170437, Calibration on: 16/09/2022, Calibration due date:15/09/2023.ID No.: VLL/COD/001).

- END OF THE TEST REPORT -

Name and Designation of Authorized Signatory

Dr. Subbarreddy Mallampati

Dr. SUBBAREDDY MALLAMPATI
Dy. Manager-Environment

Vimta Labs Limited

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TC-5418

15

ISSUED:

M/s.TATAMOTORS LIMITED
Jamshedpur 831010
Jharkhand, India.

Report Number:
Issue date:
P.O. No. & date:

VLL/VLS/22/MW/17019/065
2023.02.08
3430053969 & 25.04.2022,
AMD 05.01.2023

01 of 01

Customer Provided Details :			
Sample Name :	WWTP UNIT-A Outlet		
Test Required :	PH, TSS, TDS, O&G, BOD, COD, Temperature.		
Lab Provided Details :			
Sampling Date:	2023.01.27	Sample Registration Date:	2023.01.30
Analysis Starting Date:	2023.01.30	Analysis Completion Date:	2023.02.03
Quantity Received :	500 ml X 2 No's		
Sampling Details :	WWTP UNIT-A Outlet		
Method of Testing :	As per APHA 23 rd Edition & IS 3025 Part-44		

TEST RESULTS

S. No.	Test parameters	Unit of Measurement	Method of Testing	Results	CPCB Limits
1	pH	--	APHA-23rd ed. (4500-H+-B)	7.48	5.5 - 9.0
2	Total Suspended Solids	mg/l	APHA-23rd ed. (2540- D)	10.7	<100
3	Total Dissolved Solids	mg/l	APHA-23rd ed. (2540-C)	408	<2100
4	Oil and Grease	mg/l	APHA-23rd ed (5520 C)	<1.0	<10
5	Biochemical Oxygen Demand 3 Day at 27°C	mg/l	IS:3025 (Part-44):2009	4.2	<30
6	Chemical Oxygen Demand	mg/l	APHA-23rd ed (5220-B)	20	<250
7	Temperature	°C	APHA-23rd ed (2550-B)	23.5	--

Remarks: Results relate to the sample tested.

Instrument used: BOD Incubator (Make: Technico, S.No. LV-C-149, Calibration on: 24/11/2022, Calibration due date: 3/05/2023, ID No. VLS-EC/BOD/01), COD Digester (Make: DBK COD Digester, S. No: 170437, Calibration on: 16/09/2022, Calibration due date:15/09/2023, ID No.: VLL/COD/001).

- END OF THE TEST REPORT

Name and Designation of Authorized Signatory

Dr. SUBBAREDDY MALLAMPATI
Dy. Manager-Environment

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CIN : L24110TG1990PLC011977

Vimta Labs Limited

Registered Office

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TC-5418

16

ISSUED:

M/s.TATAMOTORS LIMITED

Jamshedpur 831010

Jharkhand, India.

Report Number:

VLL/VLS/22/MW/17019/061

Issue date:

2023.02.08

P.O. No. & date:

3430053969 & 25.04.2022,

AMD 05.01.2023

01 of 01

Customer Provided Details:			
Sample Name:	WWTP Unit-B Outlet		
Test Required:	pH, TSS, TDS, O&G, BOD, COD, Nitrate, E.coli, Total Coliforms		
Lab Provided Details:			
Sampling Date:	2023.01.16	Sample Registration Date:	2023.01.25
Analysis Starting Date:	2023.01.25	Analysis Completion Date:	2023.01.31
Quantity Received:	1000 ml X 2 No's		
Sampling Details:	WWTP Unit-B Outlet		
Method of Testing:	As per APHA 23 rd Edition & IS 3025 Part-44		
Other Details if Any:	NA		

TEST RESULTS

S. No.	Test parameters	Unit of Measurement	Method of Testing	Results	CPCB Limits
1	pH	--	APHA 23 rd ed. (4500-H+ B)	7.46	5.5-9.0
2	Total Suspended Solids	mg/l	APHA 23 rd ed. (2540 D)	11.4	<100
3	Total Dissolved Solids	mg/l	APHA 23 rd ed. (2540 C)	422	<2100
4	Oil and Grease	mg/l	APHA 23 rd ed. (5520 C)	<1.0	<10
5	Biochemical Oxygen Demand 3 Day at 27 °C	mg/l	IS:3025 (Part-44):2009	4.5	<30
6	Chemical Oxygen Demand	mg/l	APHA 23 rd ed. (5220 B)	20	<250
7	Nitrate	mg/l	APHA 23 rd ed (4500-NO3 B)	5.7	--
8	E.coli	MPN/100ml	APHA 9221: 2017	<1.8	--
9	Total Coliforms	MPN/100ml	APHA 9221: 2017	1.50	--

Remarks: Results relate to the sample tested.

Instrument used: BOD Incubator (Make: Technico, S.No. LV-C-149, Calibration on: 24/11/2022, Calibration due date: 3/05/2023, ID No. VLS-EC/BOD/01), COD Digester (Make: DBK COD Digester, S. No: 170437, Calibration on: 16/09/2022, Calibration due date:15/09/2023.ID No.: VLL/COD/001).

- END OF THE TEST REPORT -

Name and Designation of Authorized SignatoryDr. SUBBAREDDY MALLAMPATI
Dy. Manager-EnvironmentLife Sciences Campus, # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, Telangana, India
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CIN : L24110TG1990PLC011977



TC-S418

17

ISSUED:

M/s.TATAMOTORS LIMITED
Jamshedpur 831010
Jharkhand, India.

Report Number:
Issue date:
P.O. No. & date:

VLL/VLS/22/MW/17019/059
2023.02.08
3430053969 & 25.04.2022.
AMD 05.01.2023

01 of 01

Customer Provided Details :			
Sample Name :	CETP OUTLET		
Test Required :	PH, TSS, TDS, O&G, BOD, COD, Zn, Ni, Temp.		
Lab Provided Details :			
Sampling Date:	2023.01.16	Sample Registration Date:	2023.01.25
Analysis Starting Date:	2023.01.25	Analysis Completion Date:	2023.01.31
Quantity Received :	1000 ml X 2 No's		
Sampling Details :	CETP OUTLET		
Method of Testing :	As per APHA 23 rd Edition & IS 3025 Part-44		
Other Details if Any :	NA		

TEST RESULTS

S. No	Test parameters	Unit of Measurement	Method of Testing	Results	CPCB Limits
1	pH	-	APHA 23 rd ed.(4500-H+ B)	6.74	5.5-9.0
2	Total Suspended Solids	mg/l	APHA 23 rd ed.(2540 D)	48.6	<100
3	Total Dissolved Solids	mg/l	APHA 23 rd ed.(2540 C)	772	<2100
4	Oil and Grease	mg/l	APHA 23 rd ed.(5520 C)	5.2	<10
5	Biochemical Oxygen Demand 3 Day at 27 °C	mg/l	IS:3025 (Part-44):2009	28.5	<30
6	Chemical Oxygen Demand	mg/l	APHA 23 rd ed.(5220 B)	160	<250
7	Zinc as Zn	mg/l	APHA 23 rd ed.(3120 B)	0.07	<5.0
8	Nickel as Ni	mg/l	APHA 23 rd ed.(3120 B)	<0.01	<3.0
9	Temperature	°C	APHA 23 rd ed.(2550 B)	23.8	-

Remarks: Results relate to the sample tested.

Instrument used: BOD Incubator (Make: Technico, S.No. LV-C-149, Calibration on: 24/11/2022, Calibration due date: 3/05/2023, ID No. VLS-EC/BOD/01), COD Digester (Make: DBK COD Digester, S. No: 170437, Calibration on: 16/09/2022, Calibration due date:15/09/2023, ID No.: VLL/COD/001).

- END OF THE TEST REPORT -

Name and Designation of Authorized Signatory

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TC-5418

18

ISSUED:

M/s. TATA MOTORS LIMITED
Jamshedpur 831010
Jharkhand, India.

Report Number:
Issue date:
P.O. No. & date:

VLL/VLS/22/MW/15052/054
2023.01.06
3430053969 & 25.04.2022,
AMD 04.08.2022

01 of 01

Customer Provided Details:			
Sample Name:	WWTP Unit-B Outlet		
Test Required:	pH, TSS, TDS, O&G, BOD, COD, Nitrate, E.coli, Total Coliforms		
Lab Provided Details:			
Sampling Date:	2022.12.20	Sample Registration Date:	2022.12.30
Analysis Starting Date:	2022.12.30	Analysis Completion Date:	2023.01.05
Quantity Received:	1000 ml X 2 No's		
Sampling Details:	WWTP Unit-B Outlet		
Method of Testing:	As per APHA 23 rd Edition & IS 3025 Part-44		
Other Details if Any:	NA		

TEST RESULTS

S. No.	Test parameters	Unit of Measurement	Method of Testing	Results	CPCB Limits
1	pH	-	APHA 23 rd ed. (4500-H+ B)	7.42	5.5-9.0
2	Total Suspended Solids	mg/l	APHA 23 rd ed. (2540 D)	12.4	<100
3	Total Dissolved Solids	mg/l	APHA 23 rd ed. (2540 C)	418	<2100
4	Oil and Grease	mg/l	APHA 23 rd ed. (5520 C)	<1.0	<10
5	Biochemical Oxygen Demand 3 Day at 27 °C	mg/l	IS:3025 (Part-44):2009	4.2	<30
6	Chemical Oxygen Demand	mg/l	APHA 23 rd ed. (5220 B)	20	<250
7	Nitrate	mg/l	APHA 23 rd ed (4500-NO3 B)	5.6	—
8	E.coli	MPN/100ml	APHA 9221: 2017	<1.8	—
9	Total Coliforms	MPN/100ml	APHA 9221: 2017	160	—

Remarks: Results relate to the sample tested.

Instrument used: BOD Incubator (Make: Technico, S.No. LV-C-149, Calibration on: 24/11/2022, Calibration due date: 3/05/2023, ID No. VLS-EC/BOD/01). COD Digester (Make: DBK COD Digester, S. No: 170437, Calibration on: 16/09/2022, Calibration due date: 15/09/2023, ID No.: VLL/COD/001).

- END OF THE TEST REPORT -

Name and Designation of Authorized Signatory

Dr. SUBBAREDDY MALLAMPATI
Dy. Manager-Environment



19

ISSUED:

M/s. TATA MOTORS LIMITED
Jamshedpur 831010
Jharkhand, India.

Report Number:
Issue date:
P.O. No. & date:

VLL/VLS/22/MW/15052/052
2023.01.06
3430053969 & 25.04.2022,
AMD 04.08.2022

01 of 01

Customer Provided Details :			
Sample Name :	CETP OUTLET		
Test Required :	PH, TSS, TDS, O&G, BOD, COD, Zn, Ni, Temp.		
Lab Provided Details :			
Sampling Date:	2022.12.20	Sample Registration Date:	2022.12.30
Analysis Starting Date:	2022.12.30	Analysis Completion Date:	2023.01.05
Quantity Received :	1000 ml X 2 No's		
Sampling Details :	CETP OUTLET		
Method of Testing :	As per APHA 23 rd Edition & IS 3025 Part-44		
Other Details if Any :	NA		

TEST RESULTS

S. No	Test parameters	Unit of Measurement	Method of Testing	Results	CPCB Limits
1	pH	-	APHA 23 rd ed.(4500-H+ B)	7.12	5.5-9.0
2	Total Suspended Solids	mg/l	APHA 23 rd ed.(2540 D)	33.2	<100
3	Total Dissolved Solids	mg/l	APHA 23 rd ed.(2540 C)	852	<2100
4	Oil and Grease	mg/l	APHA 23 rd ed.(5520 C)	5.1	<10
5	Biochemical Oxygen Demand 3 Day at 27°C	mg/l	IS:3025 (Part-44):2009	28.2	<30
6	Chemical Oxygen Demand	mg/l	APHA 23 rd ed.(5220 B)	160	<250
7	Zinc as Zn	mg/l	APHA 23 rd ed.(3120 B)	0.08	<5.0
8	Nickel as Ni	mg/l	APHA 23 rd ed.(3120 B)	<0.01	<3.0
9	Temperature	°C	APHA 23 rd ed.(2550 B)	23.4	-

Remarks: Results relate to the sample tested.

Instrument used: BOD Incubator (Make: Technico, S.No. LV-C-149, Calibration on: 24/11/2022, Calibration due date: 3/05/2023, ID No. VLS-EC/BOD/01), COD Digester (Make: DBK COD Digester, S. No: 170437, Calibration on: 16/09/2022, Calibration due date:15/09/2023.ID No.: VLL/COD/001).

- END OF THE TEST REPORT -

Name and Designation of Authorized Signatory

Dr. SUBBAREDDY MALLAMPATI
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TC-541B

20

ISSUED:

M/s. TATA MOTORS LIMITED
Jamshedpur 831010
Jharkhand, India.

Report Number:

VLL/VLS/22/MW/15052/060

Issue date:

2023.01.06

P.O. No. & date:

3430053969 & 25.04.2022,
AMD 04.08.2022

01 of 01

Customer Provided Details :	
Sample Name:	Package STP OUTLET
Test Required:	pH, TSS, TDS, O&G, BOD, COD, Total Nitrogen, Total Po ₄ , Cr+6, Cu, Zn, CN, Ni, Fe, Cl, SO ₄ and Fecal Coliform
Lab Provided Details :	
Sampling Date:	2022.12.26
Sample Registration Date:	2022.12.30
Analysis Starting Date:	2022.12.30
Analysis Completion Date:	2023.01.05
Quantity Received :	1000 ml X 2 No's
Sampling Details :	Package STP OUTLET
Method of Testing :	As per APHA 23 rd Edition & IS 3025 Part-44
Other Details if Any :	NA

TEST RESULTS

S. No	Test parameters	Unit of Measurement	Method of Testing	Results	CPCB Limits
1	pH	-	APHA 23 rd ed. (4500-H+ B)	7.45	5.5-9.0
2	Total Suspended Solids	mg/l	APHA 23 rd ed. (2540 D)	20.5	<100
3	Total Dissolved Solids	mg/l	APHA 23 rd ed. (2540 C)	387	<2100
4	Oil and Grease	mg/l	APHA 23 rd ed. (5520 C)	<1.0	<10
5	Biochemical Oxygen Demand 3 Day at 27 °C	mg/l	IS:3025 (Part-44):2009	6.2	<30
6	Chemical Oxygen Demand	mg/l	APHA 23 rd ed. (5220 B)	20	<250
7	Total Nitrogen as N	mg/l	APHA-23 rd ed. 4500-Norg-B 2012	<1.0	100
8	Total Phosphate as PO ₄	mg/l	APHA - 23 rd ed. (4500-P, D)	0.28	5.0
9	Hexavalent Chromium as Cr ⁶⁺	mg/l	APHA 23 rd ed. (5220 B)	<0.05	0.1
10	Copper as Cu	mg/l	APHA 23 rd ed. (3120 B)	<0.01	3.0
11	Zinc as Zn	mg/l	APHA 23 rd ed. (3120 B)	<0.01	5.0
12	Cyanide as CN	mg/l	APHA 23 rd ed. (5220 B)	<0.02	0.2
13	Nickel as Ni	mg/l	APHA 23 rd ed. (3120 B)	<0.01	3.0
14	Iron as Fe	mg/l	APHA 23 rd ed. (3120 B)	0.07	3.0
15	Chloride as Cl	mg/l	APHA-23 rd ed. (4500-Cl B)	135	-
16	Sulphate as SO ₄	mg/l	APHA 23 rd ed. (5220 B)	51.2	-
17	Fecal Coliform	MPN per 100ml	EPA Method 1681	125	<1000

Remarks: Results relate to the sample tested.

Instrument used: BOD Incubator (Make: Technica, S.No. LV-C-149, Calibration on: 24/11/2022, Calibration due date: 3/05/2023, ID No. VLS-EC/BOD/01), COD Digester (Make: DBK COD Digester, S. No: 170437, Calibration on: 16/09/2022, Calibration due date: 15/09/2023, ID No.: VLL/COD/001).

- END OF THE TEST REPORT -

Name and Designation of Authorized Signatory

Dr. SUBBAREDDY MALLAMPATI
Dy. Manager-Environment

Life Sciences Campus, # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, Telangana, India
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CIN : L24110TG1990PLC011977

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TC-3418

21

ISSUED:

M/s. TATA MOTORS LIMITED
Jamshedpur 831010
Jharkhand, India.

Report Number:

VLL/VLS/22/MW/15052/058

Issue date:

2023.01.06

P.O. No. & date:

3430053969 & 25.04.2022,
AMD 04.08.2022

01 of 01

Customer Provided Details :			
Sample Name :	WWTP UNIT-A Outlet		
Test Required :	PH, TSS, TDS, O&G, BOD, COD, Temperature.		
Lab Provided Details :			
Sampling Date:	2022.12.26	Sample Registration Date:	2022.12.30
Analysis Starting Date:	2022.12.30	Analysis Completion Date:	2023.01.05
Quantity Received :	500 ml X 2 No's		
Sampling Details :	WWTP UNIT-A Outlet		
Method of Testing :	As per APHA 23 rd Edition & IS 3025 Part-44		

TEST RESULTS

S. No.	Test parameters	Unit of Measurement	Method of Testing	Results	CPCB Limits
1	pH	-	APHA-23rd ed. (4500-H+B)	7.45	5.5 - 9.0
2	Total Suspended Solids	mg/l	APHA-23rd ed. (2540-D)	16.1	<100
3	Total Dissolved Solids	mg/l	APHA-23rd ed. (2540-C)	373	<2100
4	Oil and Grease	mg/l	APHA-23rd ed (5520 C)	<1.0	<10
5	Biochemical Oxygen Demand 3 Day at 27°C	mg/l	IS:3025 (Part-44):2009	3.4	<30
6	Chemical Oxygen Demand	mg/l	APHA-23rd ed (5220-B)	10	<250
7	Temperature	°C	APHA-23rd ed (2550-B)	23.2	--

Remarks: Results relate to the sample tested.

Instrument used: BOD Incubator (Make: Technico, S.No. LV-C-149, Calibration on: 24/11/2022, Calibration due date: 3/05/2023, ID No. VLS-EC/BOD/01), COD Digester (Make: DBK COD Digester, S. No: 170437, Calibration on: 16/09/2022, Calibration due date: 15/09/2023, ID No.: VLL/COD/001).

- END OF THE TEST REPORT

Name and Designation of Authorized Signatory

Dr. SUBBAREDDY MALLAMPATI
Dy. Manager-Environment

Life Sciences Campus, # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, Telangana, India
T : +91 40 6740 4040 E : mdoffice@vimta.com URL : www.vimta.com

CIN : L24110TG1990PLC011977



Amexure - 2
JSPCB RANCHI <ranchijspcb@gmail.com>

22

URGENT

1 message

JSPCB RANCHI <ranchijspcb@gmail.com>
To: "JSPCB, Jamshedpur" <jspcb.jsr@gmail.com>

Thu, Feb 23, 2023 at 3:30 PM

Sir,

In the light of OA No. 124/2023 title s" jamshedpur industrial wastes" adding to pollution level in river Swarnrekha, You are directed to inspect and send inspection report ensuring collection and analysis of the water samples at the mentioned sites in OA latest by 24.02.2023 at 1: PM. You have also been requested on telephone on Tuesday 20.02.2023.

(S K Srivastava)
Section Head, Jamshedpur

Jharkhand State Pollution Control Board

Dhurwa Ranchi. (Head Office)