

**BEFORE THE NATIONAL GREEN TRIBUNAL
EASTERN ZONE KOLKATA BENCH**

Original Application No. 43 of 2024 / EZ.

Akash Kalo

..... Petitioner / Appellant

Vs.

**M/s JSW Bhusan Power
& Steel Ltd. & Ors.**

.....Respondent / Defendant

INDEX

Sl. No.	Description of the documents	Page Nos.
1.	Additional Affidavit.	196-200
2.	<u>ANNEXURE-R3/3 Colly.</u> Photocopy of Inspection Report carried out on dtd.07.10.2024 along with its annexures.	201-233
3.	<u>ANNEXURE-R3/4</u> Photocopy of Show Cause Notice No.16756, Dtd.21.10.2024.	234-235

By the Respondent.No.7

Through

Papiya Banerjee Bihani

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.43 of 2024/EZ.**

21 OCT 2024

Akash Kalo

..... Petitioner / Appellant

Vs.

**M/s. JSW Bhushan Power and
Steel Limited & Ors.**

.....Respondent / Defendant

**ADDITIONAL AFFIDAVIT ON BEHALF OF STATE
POLLUTION CONTROL BOARD, RESPONDENT
NO.3 IN COMPLIANCE TO ORDER DTD.23.08.2024
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



MANJULA KUMAR PRADHAN
NOTARY PUBLIC
BHUBANESWAR
REGD.NO.ON-71/2005
PH-9437627119 (M)

21/09/24

circumstances with the case and competent to swear this affidavit.

2. That this Hon'ble Tribunal in their order dtd.23.08.2024 has been pleased to taken note of the affidavit dtd.09.07.2024 filed by the R-3 Board as well as the submission of the learned counsel of the R-3 Board regarding issuance of direction dtd.21.08.2024 by the R-3 Board to the R-1 unit and directed to file affidavit dealing with the outcome of the proceedings / directions.
3. That further, it is humbly submitted that during the course of hearing of this case on 23.08.2024 the Hon'ble Tribunal was also pleased to make certain observations regarding the finding of the committee report, copy of which has already been annexed as ANNEXURE – R3/2 COLLY in the affidavit dtd.09.07.2024 filed by the R-3 Board and directed the Board through its counsel to clarify on the following issues, which has been communicated by the learned counsel of the Board in our e-mail dtd.02.09.2024, which are as follows:

[Handwritten signature]



MANJULA KUMAR PRADHAN
NOTARY PUBLIC
BHUBANESWAR
REGD.NO.ON-71/2005
PH-9437627119 (M)

- (i) Whether the manufacturing procedure that was explained in the said report, of the said industry is in violation of any environmental norms.
- (ii) Whether the level of iron in the ground water is exceeding its permissible limit in the entire village area.
- (iii) Whether the high level of iron in the ground water is due to the leaching of iron pond or for any natural reason as the place is rich in iron ore.
- (iv) If there is any lack on the part of the industry then what would be the steps to overcome it.

4. That in the meantime, the R-3 Board through its Regional Officer at Sambalpur has carried out inspection of the R-1 unit on 07.10.2024 in order to verify the compliance status of the unit to the direction dtd.21.08.2024 issued by the R-3 Board along with other observations communicated by the learned counsel of the Board in her e-mail dtd.07.10.2024 and submitted a detail report along with remarks and recommendations. Copy of the Inspection Report carried out



MANJULA KUMAR PRADHAN
NOTARY PUBLIC
BHUBANESWAR
REGD.NO. ON-71/2004
PH-9437627119 (M)

on dtd.07.10.2024 alongwith its annexures is annexed to this affidavit and marked as ANNEXURE – R3/3 Colly.

5. That it is humbly submitted that the inspection report at Annexure-R3/3 Colly was carefully examined by the R-3 Board and a show cause issue U/s-25, 33A of the Water (PCP) Act, 1974 and Sec.21 & 31A of the Air (PCP) Act, 1981 has been issued to the R-1 unit vide letter No.16756 dtd.21.10.2024 to show cause within 15 days from the date of issuance of the notice as to why consent to operate granted in favour of 1200 TPH Iron Ore Beneficiation Plant valid upto 31.03.2025 shall not be revoked and direction of closure shall not be issued. After receipt / non-receipt of the reply of the show cause notice, the same will be considered and the case will be disposed of in accordance with law. Copy of the show cause notice No.16756 dtd.21.10.2024 is annexed to this affidavit and marked as ANNEXURE – R3/4.
6. That this affidavit is filed in compliance to direction dtd.23.08.2024 of this Hon'ble Tribunal.



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

[Handwritten signature]

- 7. That the Respondent No.3 Board craves the leave of this Hon'ble Tribunal to file further affidavit if necessary for proper adjudication of the case.
- 8. That the annexures annexed to the present affidavit are true and correct copies of their originals.
- 9. 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.

[Handwritten signature]

DEPONENT
Member Secretary
State Pollution Control Board
Odisha, Bhubaneswar

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 21st day of October, 2024.

SWORN BEFORE ME



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

[Handwritten signature]

DEPONENT
Member Secretary
State Pollution Control Board
Odisha, Bhubaneswar

[Handwritten signature]

ANNEXURE-R3/3 Colly.**Inspection report of visit regarding verification of observations of the Hon'ble NGT in the matter of O.A. No. 43/2024/EZ – Akash Kalo & Others – Vrs. M/s. JSW Bhusan Power and Steel Limited, At- Thelkoloji, PO- Lapanga, Dist.- Sambalpur, Odisha**

In pursuance of the order dtd. 23.08.2024 of the Hon'ble NGT, EZB, Kolkata in the matter of O.A. No. 43/2024/EZ – Akash Kalo & others – Vrs. JSW (BPSL) Power and Steel Limited & Ors., the above site of M/s. JSW Bhusan Power and Steel Limited, At- Thelkoloji, PO- Lapanga, Dist.- Sambalpur, Odisha was inspected on dtd **07.10.2024** to verify the compliance to Direction u/s 31 (A) of Air (PCP) Act, & U/s 33(A) of Water (PCP) Act, 1974 amendments thereunder issued vide Head Office letter no. 13279 dtd 21.08.2024. (**Copy Enclosed Annexure-1**). and further clarification of the Hon'ble NGT, EZB, Kolkata which are not reflected in the above order but forwarded to the Head Office, SPCB, Odisha, via E-mail dtd. 02.09.2024 The above site was last inspected by a joint inquiry committee comprising of Scientist-D, Regional Directorate, CPCB, Kolkotta, Addl District Magistrate, Sambalpur and Regional Officer, State Pollution Control Board Sambalpur on dt.**28.06.2024** and certain corrective measures as per the recommendation of joint inquiry committee were suggested. Based on the recommendation of the joint inquiry committee report the industry was issued Direction u/s 31 (A) of Air (PCP) Act, & U/s 33(A) of Water (PCP) Act, 1974 amendments thereunder issued vide Head Office letter no. 13279 dtd 21.08. 2024.. The industry has replied to the above directions to the Board vide their letter no. JSWBPSL/ENV/24-25/042 dtd 21st August 2024. (**Copy Enclosed Annexure-2**). The unit was again inspected on dt.**07.10.2024** for verification of the above Directions. Sri Akul Senapati, DGM-Environment, M/s. JSW Bhushan Power & Steel Ltd., Sambalpur, and Sri Niranjana Parida, Sr. Mgr, Environment, M/s JSW Bhusan Power & Steel Ltd., Sambalpur were present during the visit along with other representatives of the industry.

Background of the industry:

M/s. JSW Bhushan Power & Steel Limited, Sambalpur is operating an integrated steel plant of capacity 4.5 MTPA with a captive power plant of 506 MW at village Thelkoloji, PO- Lapanga, Tahasil: Rengali under Sambalpur district. The Company has valid consent to operate issued by OSPCB vide letter no. 3439/IND-I-CON-4650, dated 12.03.2024 valid till 31.03.2025.

Tailing is a mixture of crushed rock and processing fluids from mills washeries or concentrators that remain after extracting economic metals from the mine source. It is the by-product of iron ore beneficiation. The tailing contains mainly silica, alumina, iron oxide, and calcium oxide and a small fraction of metal oxide like magnesium oxide, sodium oxide, potassium oxide, titanium oxide, etc. Tailings are heterogeneous. There are 14 nos. of Tailing ponds. The tailings from the iron ore beneficiation process come into the paste thickener and the high molecular weight polymer is added into the paste thickener to concentrate the tailings and clarified water from the paste thickener is taken back into the beneficiation process. The tailings stored in the tailing ponds are sun-dried and taken back into the sinter plants and small amounts of water from the tailing yard are taken back into the beneficiation plant.

Observation to the points raised in the Direction issued from the Head Office, SPCB, Odisha vide letter no. 13279 dtd. 21.08.2024

Sl.N o.	Points raised	Observation on dtd 07.10.2024
1.	Construct stone pitching around the tailing pond facing towards the Pond of village Bisadihi to protect any spillage towards the village Pond.	It was observed that the embankment of the tailing pond facing the Pond of the village Bisadihi was not stone pitched and no work commenced for stone pitching during the day of inspection..
2.	Engage an accredited organization for carrying periodical monitoring of groundwater and Pond, dug well, and tube well of the alleged village as well as ambient air quality monitoring at the dump site and the report shall be submitted to the Board.	The unit has not submitted a periodical monitoring report of groundwater and Pond, dug well, and tube well of the alleged village as well as ambient air quality monitoring at the dump site to the Board. The unit submitted a monitoring report in July 2024 on 21 st August 2024 (Copy Enclosed Annexure-3)
3.	Carry out plantation activity beside the tailing pond towards	The unit did not carry out plantation activity beside the tailing pond towards

	the Bisadihi village.	the Bisadihi village during the day of inspection
4.	Engage a third party to study the environmental impact of the iron ore tailing pond around a 10 km radius of the Tailing Pond in consultation with the State Pollution Control Board.	The industry has not complied to this point to date.

The following observations were made as per E-mail dtd. 02.09.2024 by Head Office,

Sl.no.	Points raised in the E-mail	Observations
1.	Whether the manufacturing procedure that was explained in the said report, of the said industry violates any environmental norms	The industry has obtained Consent to Operate from the Board vide letter no. 3439/IND-I-CON-4650, dated 12.03.2024 valid till 31.03.2025. The tailings stored in the tailing ponds are sun-dried and taken back into both the sinter plants and small amounts of water from the tailing yard is taken back into the beneficiation plant. This process is not in violation of any environmental norms.
2.	Whether the level of iron in the groundwater is exceeding its permissible limit in the entire village area.	The nearby village area was visited and water samples were collected from 13 (Thirteen) locations as follows: <ol style="list-style-type: none"> 1. Water sample from Bisadihi village pond no.1 near iron ore tailing pond of M/s JSW Bhushan Power & Steel Ltd., Thekoloji, Sambalpur. 2. Water sample from Bisadihi village pond no.2 near iron ore

		<p>tailing pond of M/s JSW Bhushan Power & Steel Ltd., Thekoloji, Sambalpur.</p> <ol style="list-style-type: none"> 3. Groundwater of Test well -1 near iron ore tailing pond-3 of M/s. JSW Bhushan Power & Steel Ltd, Thekoloji, Sambalpur. 4. Groundwater of test wells- 3 near iron ore tailing pond-4 & 12 of M/s. JSW Bhushan Power & Steel Ltd., Thekoloji, Sambalpur. 5. Groundwater of Test well -3 near iron ore tailing pond-2 of M/s. JSW Bhushan Power & Steel Ltd, Thekoloji, Sambalpur. 6. Groundwater from tube well at Banji berna village entrance. 7. Groundwater from tube well at Gandapada in front of Siba Nayak house, Bisadihi village. 8. Ground water from the tube well at Govt. Primary School, Bisadihi village. 9. Ground water from the tube well at Brahamanpada, Bisadihi village. 10. Groundwater sample from Dug well of Santosh Kalo house, Bisadihi village. 11. Ground water sample from Tube well in front of Santosh Kalo house, Bisadihi village. 12. Ground water from tube well at
--	--	---

		<p>Sunamal village – 1 13. Groundwater from tube well at Sunamal village – 2.</p> <p>The samples were sent to the Central Laboratory, State Pollution Control Board, Odisha for analysis and the analysis report is enclosed with this report. It is revealed from the analysis report that the iron in the water samples is under the prescribed standards of the Board except for the water sample collected from the tube well in front of Sri Santosh Kalo residence which is highly exceeding the standard parameter of the Board.</p>
3.	Whether the high level of iron in the groundwater is due to the leaching of iron pond or for any natural reason as the place is rich in iron ore.	<p>From the analysis report of the water samples, it is revealed that the iron in the water samples are under the prescribed standards of the Board except for the water sample collected from the tube well in front of Sri Santosh Kalo residence which highly exceeds the standard parameter of the Board. During the inquiry with the villagers, it was known that the particular tube well in front of Sri Santosh Kalo had not been used for many months which is why the rust formation in the bore pipe must have been the reason for the increase in iron content in the water sample collected from the Tube well.</p>
4.	If there is any lack on the part of the industry, then what would be	No. There is no lack on the part of the industry to exceed the Standards of the

	<p>the steps to overcome it.</p>	<p>Tube well of Sri Santosh Kalo of Bisadihi village. One village Pond is also situated in between M/s. JSW Bhushan Power & Steel Ltd, Iron ore tailing Pond and Tube well of Sri Santosh Kalo. The Village Pond of Bisadihi village situated adjacent to the iron ore tailing Pond is within the prescribed Standard of the Board. This concludes that there is no seepage or contamination of the iron ore tailing pond to the nearby Tube well used for drinking water in the Bisadihi village</p>
--	----------------------------------	---

Some Photographs taken during the visit to Nearby Village areas

<p>Groundwater of the Test well -1 near iron ore tailing pond-3</p>	<p>Groundwater of the test well-3 near iron ore tailing pond-4 & 12</p>	<p>Groundwater of theTest well -3 near iron ore tailing pond-2</p>
<p>Ground water from the tube well at Banji berna village entrance</p>	<p>Ground water from the tube well at at Gandapada in front of Siba Nayak house</p>	<p>Ground water from the tube well at Govt. Primary School, Bisadihi village</p>
<p>Ground water from the tube well at Brahamanpada , Bisadihi village</p>	<p>Ground water sample from the Dug well of Santosh Kalo house, Bisadihi village</p>	<p>Ground water sample from the Dug well of Santosh Kalo house, Bisadihi village</p>



Water sample from Bisadihi village pond no.1 near iron ore tailing pond of M/s. JSW BPSL., Thelkolo, Sambalpur



Water sample from Bisadihi village pond no.2 near iron ore tailing pond of M/s. JSW BPSL., Thelkolo, Sambalpur



Ground water from the tube well at Sunamal village – 1



Ground water from the tube well at Sunamal village – 2



Fig. Google Earth image of the water sample taken in the vicinity of the tailing pond in the village area.

Remarks & Recommendations:

1. The iron ore tailings are pumped to the tailing ponds in highly concentrated slurry form. However, after drying the iron ore tailing, heavy vehicles transport it back to the industry. The industry has provided mobile water tankers and multi-utility vehicles for dust suppression on the bund road and approach road to the industry. In addition to that, 15 nos of fixed type 360 deg. Rotation water sprinklers are installed on the bund of the tailing pond towards the Bisadihi village.
2. Thirteen nos. of water samples were collected from different areas of the periphery village areas as mentioned above and the water samples were collected and sealed and sent to Central Laboratory, SPCB, Bhubaneswar for analysis. **The analysis reports are enclosed. (Copy Enclosed Annexure- 4 & 5). The analysis reports reveal that the Iron (Fe) of the groundwater sample taken in front of the residence of Sri Santosh Kalo exceeds the standard parameter of the Board which is unsuitable for drinking purposes.**
3. The revenue authority of Jharsuguda district is advised to take needful action for booking encroachment cases of the forest land against the industry authority and further necessary action.
4. The water from the tube well near the residence of Sri Santosh Kalo shall not be used by the villagers for drinking purposes as Iron (Fe) content is high. Proper advisory shall be given to the villagers by M/s. JSW Bhushan Power & Steel Limited, Sambalpur.



Asst. Env. Scientist
SPC Board, Sambalpur
Asst. Environmental Scientist
Regional Office of State Pollution
Control Board, Sambalpur.



Asst. Env. Engineer
SPC Board, Sambalpur
Asst. Environmental Engineer
State Pollution Control Board
Regional Office, Sambalpur.



STATE POLLUTION CONTROL BOARD, ODISHA

(DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVT. OF ODISHA)

A/118, Nilakanthanagar, Unit-VIII, Bhubaneswar 751012

EPABX-2560929, 2561909, Tel: 2564573, 2562368,

Email : cto17category@ospboard.org, Website : www.ospboard.org

No 13279 /IND-I-CON- 465D

Dt 21.08.2024 /

By Speed Post / Email

anilkumar.singh@jswbpl.in

prakash.baral@jswbpl.in

DIRECTION U/S. 31A OF THE AIR (PCP) ACT, 1981 & U/S. 33A OF WATER (PCP) ACT, 1974 AMENDMENTS THEREUNDER.

WHEREAS, you are operating an Integrated Steel Plant in the name & style of M/s. Bhushan Power and Steel Ltd. At: Thelkoloji, Po:Lapanga, Dist: Sambalpur with Consent of the Board valid up to 31.03.2025, subject to strict compliance to consent conditions;

AND WHEREAS, in pursuance of the order of Hon'ble NGT, EZB, Kolkata dtd. 12.03.2024 in the matter of O.A. No. 43/2024/EZ - Akash Kalo & others - Vrs. JSW (BPSL) Power and Steel Limited & Ors., a joint enquiry committee comprising of Scientist-D, Regional Directorate, CPCB, Kolkata, Addl. District Magistrate, Sambalpur and Regional Officer, SPC Board, Sambalpur had conducted inspection on 28.06.2024. (Copy of inspection report is enclosed). From the inspection report, following non-compliances were observed;

- The analysis result of groundwater sample collected from tube well of Bisadihi Village reveals that the Iron (Fe) concentration exceeded the prescribed standard for potable water rendering it unsuitable for drinking purposes.

NOW THEREFORE, by virtue of the power conferred under section 31A of the Air (PCP) Act, 1981 & U/s. 33A of Water (PCP) Act, 1974 as amended thereafter, the competent authority in the State Pollution Control Board, Odisha do hereby direct you to take the following corrective measures as per the recommendation of joint enquiry committee and furnish action taken report to the Board within 15 days:

- Construct stone pitching around the tailing pond facing towards the Pond of village Bisadihi to protect any spillage towards the village Pond.
- Engage an accredited organization for carrying periodical monitoring of groundwater and Pond, dug well, and tube well of the alleged village as well as ambient air quality monitoring at the dump site and the report shall be submitted to the Board.
- Carry out plantation activity beside the tailing pond towards the Bisadihi village.

- d) Engage a third party to study the environmental impact of the iron ore tailing pond around a 10 km radius of the Tailing Pond in consultation with the State Pollution Control Board.

Encl: As above


MEMBER SECRETARY

To

The Director,
M/s. Bhushan Power and Steel Ltd.
At: Thelkoloi Po: Lapanga,
Dist: Sambalpur

Memo No. 13280 /Dt. 21.08.2024

By Speed Post/E-mail
Copy forwarded to the Regional Officer, State Pollution Control Board,
Sambalpur for information and necessary action.


CHIEF ENV. ENGINEER





Annexure - 2
JSWBPSL/ENV/24-25/042
21st August 2024.

 To,
 The Member Secretary,
 State Pollution Control Board, Odisha
 Paribesh Bhawan, A/118, Nilakantha Nagar,
 Unit-VIII, Bhubaneswar-751012.

Subject- Compliance to the Direction under section 31(A) of Air (PCP) act, 1981 and 33A of Water (PCP) Act, 1974 Amendment there under.

Reference-Your Letter No-13297/IND-I-CON-4650, dated.21.08.2024

Dear Sir,

Inviting your kind attention to the subject cited above, we would like to submit point wise compliance status of the direction issued to take corrective measures as per the recommendation of Joint enquiry committee.

Sl.No	Recommendation	Compliance Status
a	Construct stone pitching around the tailing pond facing towards the pond of village Bisadihi to protect any spillage towards the village pond	The embankment of the tailing pond facing towards the village Bisadihi is regularly inspected and maintained. As recommended, the stone pitching work will be started after the rainy season around the tailing pond facing towards Bisadihi village to protect any spillage towards the village pond.
b	Engage an accredited organization for carrying periodical monitoring of ground water, pond and dug well and tube well of the alleged village as well as ambient air quality monitoring at the dump site and the report shall be submitted to the Board.	We have already engaged NABL & MOEF accredited Laboratory for monitoring of ground water, pond and dug well and tube well of the alleged village as well as ambient air quality periodic monitoring at the dump site. The latest monitoring reports are attached in Annexure-1 .
c	Carryout plantation activity besides the tailing pond towards the Bisadihi village.	We have started plantation besides the pond. Recently 500 new trees planted. More sapling will be planted towards the Bisadihi village.
d	Engage a third party to study the	We will engage third party to study the


environmental impact of the iron ore tailing pond around a 10 KM radius of the tailing Pond in consultation with the state pollution Control Board.	environmental impact of the iron ore tailing pond around a 10 KM radius of the tailing Pond in consultation with the State pollution Control Board.
---	---

We are continuously working to improve the environmental condition and sustainable development. We are committed to comply with all the recommendations stipulated in the direction.

Thanking You,

Yours faithfully,

For **Bhushan Power & Steel Limited**



Anil Kumar Singh
President & WTD

Copy to: The Regional Officer, Odisha State Pollution Control Board, Sambalpur

Annexure-3



NABL Scope

Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/005

Issue Date: 2024-07-15

Your Ref:
and Date: 2024-07-04

Lab Ref No.: 1764811

LIMS Report No.: 556893-A


Page 1 of 3

Kind Attn:Mr. Alóká Datta
Customer Provided Details :

Sample Name:	Ground Water- Tailing Pond Tube Well No-1		
Batch Number:	NA	AR/Sample Code:	NA
Mfg. Date:	NA	Exp. Date:	NA
Test Required:	Colour, Odour, Taste, Turbidity, pH, Dissolved Solid, Residual free chlorine, Total Hardness, Calcium, Magnesium, Alkalinity, Chloride, Fluoride, Sulphate, Nitrate, Chromium, Phenolic Compounds, Iron, Cyanide, Copper, Manganese, Mercury, Cadmium, Selenium, Arsenic, Lead, Zinc, Aluminium, Boron, Anionic Detergents, Mineral Oil		
Other Details if Any:	NA		

Lab Provided Details :

Sample Received Date:	2024-07-04	Sample Registration Date:	2024-07-05
Analysis Starting Date:	2024-07-05	Analysis Completion Date:	2024-07-09
Quantity Received:	1 Ltr Bottle X 2No's		
Sampling Details:	Sampling Date:2024.06.30		
Other Details if Any:	NA		

ULR-TC541824000026358F

**Chemical
Water**
TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
1	pH at 25°C		APHA 24th Ed 4500 H+	6.70
2	Color	PC/Co units	APHA 24th 2120-C	<1.0
3	Residual Free Chlorine as RFC	mg/l	IS 3025 (Part-26)	<0.05
4	Arsenic as As	mg/l	APHA 3125_24th_EDITION	<0.001
5	Mercury as Hg	mg/l	APHA 3125_24th_EDITION	<0.0002
6	Lead as Pb	mg/l	APHA 3125_24th_EDITION	<0.005



Scan the QR
code to check
the report
authenticity

Name and Designation of Authorized Signatory

Dr.Subbareddy Mallampati
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.

Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



NABL Scope

Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/005

Issue Date: 2024-07-15

Your Ref:
and Date: 2024-07-04

Lab Ref No.: 1764811

LIMS Report No.: 556893-A



Page 2 of 3

Kind Attn:Mr. Alope Datta
ULR-TC541824000026358F
Chemical
Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
7	Cadmium as Cd	mg/l	APHA 3125_24th_EDITION	<0.0005
8	Copper as Cu	mg/l	APHA 3125_24th_EDITION	<0.01
9	Total Chromium as Cr	mg/l	APHA 3125_24th_EDITION	<0.005
10	Selenium as Se	mg/l	APHA 3125_24th_EDITION	<0.001
11	Boron as B	mg/l	APHA 3125_24th_EDITION	0.01
12	Phenolic Compounds as C6H5OH	mg/l	APHA 24th 5530D	<0.001
13	Manganese as Mn	mg/l	APHA 3125_24th_EDITION	0.01
14	Total Dissolved Solids at 180°C	mg/l	APHA 24th Edition 2540 C	135
15	Turbidity	NTU	APHA 24th Edition 2130 B	<0.1
16	Nitrate Nitrogen as NO3-	mg/l	APHA 24th 4500 NO3 B	5.12
17	Sulphates as SO4	mg/l	APHA 24th Ed 4500 SO4E	16.5
18	Cyanide as CN-	mg/l	APHA 24th 4500 CN E	<0.02
19	Calcium as Ca	mg/l	APHA 24th Ed 3500 Ca B	22.04
20	Magnesium as Mg	mg/l	APHA 24th Ed 3500 Mg B	7.29
21	Total Alkalinity as CaCO3	mg/l	APHA 24th Ed 2320 B	55
22	Total Hardness as CaCO3	mg/l	APHA23RD2340B	85
23	Zinc as Zn	mg/l	APHA 3125_24th_EDITION	0.02
24	Iron as Fe	mg/l	APHA 3125_24th_EDITION	0.01
25	Chloride as Cl	mg/l	APHA 24th Ed 4500 Cl B	20
26	Fluoride as F	mg/l	APHA 24th Ed 4500 F-D	0.52
27	Odour	---	IS 3025 (Part 5)	Agreeable
28	Anionic Surfactants as MBAS	mg/l	APHA 24th Edition 5540 C	<0.02
29	Mineral Oil	mg/l	IS 3025 (Part 39): 1991	<0.01
30	Taste	---	IS:3025 PART 7 & 8:1984	Agreeable



Scan the QR
code to check
the report
authenticity

Name and Designation of Authorized Signatory

Dr.Subbareddy Mallampati
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.

Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),

Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India, Phone : +91-40-6740 4040



NABL Scope

Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/005

Issue Date: 2024-07-15

Your Ref: and Date: 2024-07-04

Lab Ref No.: 1764811

LIMS Report No.: 556893-A



Page 3 of 3

Kind Attn:Mr. Aloka Datta
ULR-TC541824000026358F
Chemical
Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
31	Aluminium as Al	mg/l	APHA 3125_24th EDITION	<0.001

Results relate only to the sample tested.

Remarks:

- END OF THE TEST REPORT -



Scan the QR code to check the report authenticity

Name and Designation of Authorized Signatory



**Dr. Subbareddy Mallampati
Manager - Environment**

Note : This report is subject to the terms and conditions mentioned at the end of the report.

Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),

Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



NABL Scope

Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/006

Issue Date: 2024-07-15
Your Ref: and Date: 2024-07-04
Lab Ref No.: 1764812
LIMS Report No.: 556894-A



Page 1 of 3

Kind Attn:Mr. Aloke Datta

Customer Provided Details :			
Sample Name:	Ground Water- Tailing Pond Tube Well No-2		
Batch Number:	NA	AR/Sample Code:	NA
Mfg. Date:	NA	Exp. Date:	NA
Test Required:	Colour, Odour, Taste, Turbidity, pH, Dissolved Solid, Residual free chlorine, Total Hardness, Calcium, Magnesium, Alkalinity, Chloride, Fluoride, Sulphate, Nitrate, Chromium, Phenolic Compounds, Iron, Cyanide, Copper, Manganese, Mercury, Cadmium, Selenium, Arsenic, Lead, Zinc, Aluminium, Boron, Anionic Detergents, Mineral Oil		
Other Details if Any:	NA		
Lab Provided Details :			
Sample Received Date:	2024-07-04	Sample Registration Date:	2024-07-05
Analysis Starting Date:	2024-07-05	Analysis Completion Date:	2024-07-09
Quantity Received:	1 Ltr Bottle X 2No's		
Sampling Details:	Sampling Date:2024.06.30		
Other Details if Any:	NA		

ULR-TC541824000026359F

Chemical
Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
1	pH at 25°C		APHA 24th Ed 4500 H+	7.13
2	Color	Pt/Co units	APHA 24th 2120-C	<1.0
3	Residual Free Chlorine as RFC	mg/l	IS 3025 (Part-26)	<0.05
4	Arsenic as As	mg/l	APHA 3125_24th_EDITION	<0.001
5	Mercury as Hg	mg/l	APHA 3125_24th_EDITION	<0.0002
6	Lead as Pb	mg/l	APHA 3125_24th_EDITION	<0.005



Scan the QR code to check the report authenticity

Name and Designation of Authorized Signatory

Dr.Subbareddy Mallampati
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.

Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park), Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



NABL Scope

Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLAI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: VLLVLS/24/06493/006

Issue Date: 2024-07-15

Your Ref:
and Date: 2024-07-04

Lab Ref No.: 1764812

LIMS Report No: 556894-A



Page 2 of 3

Kind Attn:Mr. Aloke Datta

ULR-TC541824000026359F

Chemical
Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
7	Cadmium as Cd	mg/l	APHA 3125_24th_EDITION	<0.0005
8	Copper as Cu	mg/l	APHA 3125_24th_EDITION	<0.01
9	Total Chromium as Cr	mg/l	APHA 3125_24th_EDITION	<0.005
10	Selenium as Se	mg/l	APHA 3125_24th_EDITION	<0.001
11	Boron as B	mg/l	APHA 24th Ed 3120 B	0.04
12	Phenolic Compounds as C6H5OH	mg/l	APHA 24th 5530D	<0.001
13	Manganese as Mn	mg/l	APHA 3125_24th_EDITION	0.03
14	Total Dissolved Solids at 180°C	mg/l	APHA 24th Edition 2540 C	254
15	Turbidity	mg/l	APHA 24th Edition 2130 B	<0.1
16	Nitrate Nitrogen as NO3-	NTU	APHA 24th 4500 NO3 B	9.52
17	Sulphates as SO4	mg/l	APHA 24th Ed 4500 SO4E	31.2
18	Cyanide as CN-	mg/l	APHA 24th 4500 CN E	<0.02
19	Calcium as Ca	mg/l	APHA 24th Ed 3500 Ca B	32.06
20	Magnesium as Mg	mg/l	APHA 24th Ed 3500 Mg B	14.59
21	Total Alkalinity as CaCO3	mg/l	APHA 24th Ed 2320 B	100
22	Total Hardness as CaCO3	mg/l	APHA23RD2340B	140
23	Zinc as Zn	mg/l	APHA 3125_24th_EDITION	0.03
24	Iron as Fe	mg/l	APHA 3125_24th_EDITION	0.02
25	Chloride as Cl	mg/l	APHA 24th Ed 4500 Cl B	45
26	Fluoride as F	mg/l	APHA 24th Ed 4500 F-D	0.68
27	Odour	—	IS 3025 (Part 5)	Agreeable
28	Anionic Surfactants as MBAS	mg/l	APHA 24th Edition 5540 C	<0.02
29	Mineral Oil	mg/l	IS 3025 (Part 39): 1991	<0.01
30	Taste	—	IS:3025 PART 7 & 8:1984	Agreeable



Scan the QR
code to check
the report
authenticity

Name and Designation of Authorized Signatory

Dr.Subbareddy Mailampati
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.

Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA, IND
Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/006

Issue Date: 2024-07-15

Your Ref. and Date: 2024-07-04

Lab Ref No.: 1764812

LIMS Report No.: 556894-A



Page 3 of 3

Kind Attn: Mr. Alok Datta
ULR-TC541824000026359F
Chemical
Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
31	Aluminium as Al	mg/l	APHA 3125_24th_EDITION	<0.001

Results relate only to the sample tested.
Remarks:

- END OF THE TEST REPORT -



Scan the QR
code to check
the report
authenticity

Name and Designation of Authorized Signatory

Dr. Subbareddy Mallampati
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.
Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



NABL Scope

Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/007

Issue Date: 2024-07-16

Your Ref: and Date: 2024-07-04

Lab Ref No.: 1764813

LIMS Report No.: 557198-A



Page 1 of 3

Kind Attn:Mr. Aloke Datta

Customer Provided Details :

Sample Name:	Ground Water-Tailing Pond Old Tube Well		
Batch Number:	NA	AR/Sample Code:	NA
Mfg. Date:	NA	Exp. Date:	NA
Test Required:	Colour, Odour, Taste, Turbidity, pH, Dissolved Solid, Residual free chlorine, Total Hardness, Calcium, Magnesium, Alkalinity, Chloride, Fluoride, Sulphate, Nitrate, Chromium, Phenolic Compounds, Iron, Cyanide, Copper, Manganese, Mercury, Cadmium, Selenium, Arsenic, Lead, Zinc, Aluminium, Boron, Anionic Detergents, Mineral Oil		
Other Details if Any:	NA		

Lab Provided Details :

Sample Received Date:	2024-07-04	Sample Registration Date:	2024-07-05
Analysis Starting Date:	2024-07-05	Analysis Completion Date:	2024-07-09
Quantity Received:	1 Ltr Bottle X 2No's		
Sampling Details:	Sampling Date:2024.06.30		
Other Details if Any:	NA		

ULR-TC541824000026360F

Chemical
Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
1	pH at 25°C	—	APHA 24th Ed 4500 H+	6.96
2	Color	Pt/Co units	APHA 24th 2120-C	<1.0
3	Residual Free Chlorine as RFC	mg/l	IS 3025 (Part-26)	<0.05
4	Arsenic as As	mg/l	APHA 3125_24th_EDITION	<0.001
5	Mercury as Hg	mg/l	APHA 3125_24th_EDITION	<0.0002
6	Lead as Pb	mg/l	APHA 3125_24th_EDITION	<0.005



Scan the QR code to check the report authenticity

Name and Designation of Authorized Signatory



Dr.Subbareddy Mallampati
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.

Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park), Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



NABL Scope

Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/007

Issue Date: 2024-07-16

Your Ref:
and Date: 2024-07-04

Lab Ref No.: 1764813

LIMS Report No.: 557198-A



Page 2 of 3

Kind Attn:Mr. Alope Datta
ULR-TC541824000026360F
Chemical
Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
7	Cadmium as Cd	mg/l	APHA 3125_24th_EDITION	<0.0005
8	Copper as Cu	mg/l	APHA 3125_24th_EDITION	<0.01
9	Total Chromium as Cr	mg/l	APHA 3125_24th_EDITION	<0.005
10	Selenium as Se	mg/l	APHA 3125_24th_EDITION	<0.001
11	Boron as B	mg/l	APHA 24th Ed 3120 B	0.05
12	Phenolic Compounds as C6H5OH	mg/l	APHA 24th 5530D	<0.001
13	Manganese as Mn	mg/l	APHA 3125_24th_EDITION	0.03
14	Total Dissolved Solids at 180°C	mg/l	APHA 24th Edition 2540 C	490
15	Turbidity	mg/l	APHA 24th Edition 2130 B	<0.1
16	Nitrate Nitrogen as NO3-	NTU	APHA 24th 4500 NO3 B	9.4
17	Sulphates as SO4	mg/l	APHA 24th Ed 4500 SO4E	42.1
18	Cyanide as CN-	mg/l	APHA 24th 4500 CN E	<0.02
19	Calcium as Ca	mg/l	APHA 24th Ed 3500 Ca B	44.08
20	Magnesium as Mg	mg/l	APHA 24th Ed 3500 Mg B	19.10
21	Total Alkalinity as CaCO3	mg/l	APHA 24th Ed 2320 B	130
22	Total Hardness as CaCO3	mg/l	APHA23RD2340B	190
23	Zinc as Zn	mg/l	APHA 3125_24th_EDITION	0.07
24	Iron as Fe	mg/l	APHA 3125_24th_EDITION	0.04
25	Chloride as Cl	mg/l	APHA 24th Ed 4500 Cl B	140
26	Fluoride as F	mg/l	APHA 24th Ed 4500 F-D	0.69
27	Odour	---	IS 3025 (Part 5)	Agreeable
28	Anionic Surfactants as MBAS	mg/l	APHA 24th Edition 5540 C	<0.02
29	Mineral Oil	mg/l	IS 3025 (Part 39): 1991	<0.01
30	Taste	---	IS:3025 PART 7 & 8:1984	Agreeable



Scan the QR
code to check
the report
authenticity

Name and Designation of Authorized Signatory

Dr.Subbareddy Mallampati
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.

Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/007

Issue Date: 2024-07-16

Your Ref:

and Date: 2024-07-04

Lab Ref No.: 1764813

LIMS Report No.: 557198-A



Page 3 of 3

Kind Attn:Mr. Aloke Datta
ULR-TC541824000026360F
Chemical
Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
31	Aluminium as Al	mg/l	APHA 3125_24th_EDITION	<0.001

Results relate only to the sample tested.

Remarks: This report is superceded to report with Reg. No. VLL/VLS/23/06493.007 with copy bearing Lims Report NO. 556896-A

- END OF THE TEST REPORT -



Scan the QR code to check the report authenticity

Name and Designation of Authorized Signatory

Dr.Subbareddy Mallampati
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.
Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



NABL Scope

Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/017

Issue Date: 2024-07-15

Your Ref: 2024-07-04

and Date: 2024-07-04

Lab Ref No.: 1764823

LIMS Report No.: 556907-A



Page 1 of 3

Kind Attn: Mr. Aloke Datta

Customer Provided Details :

Sample Name:	Ground Water-Bisidhi Village Tubewell,N-21007'06" E-84004'12"		
Batch Number:	NA	AR/Sample Code:	NA
Mfg. Date:	NA	Exp. Date:	NA
Test Required:	Colour, Odour, Taste, Turbidity, pH, Dissolved Solid, Residual free chlorine, Total Hardness, Calcium, Magnesium, Alkalinity, Chloride, Fluoride, Sulphate, Nitrate, Chromium, Phenolic Compounds, Iron, Cyanide, Copper, Manganese, Mercury, Cadmium, Selenium, Arsenic, Lead, Zinc, Aluminium, Boron, Anionic Detergents, Mineral Oil		
Other Details if Any:	NA		

Lab Provided Details :

Sample Received Date:	2024-07-04	Sample Registration Date:	2024-07-05
Analysis Starting Date:	2024-07-05	Analysis Completion Date:	2024-07-09
Quantity Received:	1 Ltr Bottle X 2No's		
Sampling Details:	Sampling Date:2024.06.30		
Other Details if Any:	NA		

ULR-TC541824000026372F

Chemical
Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
1	pH at 25°C		APHA 24th Ed 4500 H+	7.22
2	Color	Pl/Co units	APHA 24th 2120-C	<1.0
3	Residual Free Chlorine as RFC	mg/l	IS 3025 (Part-26)	<0.05
4	Arsenic as As	mg/l	APHA 3125_24th_EDITION	<0.001
5	Mercury as Hg	mg/l	APHA 3125_24th_EDITION	<0.0002
6	Lead as Pb	mg/l	APHA 3125_24th_EDITION	<0.005



Scan the QR
code to check
the report
authenticity

Name and Designation of Authorized Signatory

Dr. Subbareddy Mallampati
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.

Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



NABL Scope

Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/017

Issue Date: 2024-07-15

Your Ref: 2024-07-04
and Date:

Lab Ref No.: 1764823

LIMS Report No.: 556907-A



Page 2 of 3

Kind Attn:Mr. Alope Datta
ULR-TC541824000026372F
Chemical
Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
7	Cadmium as Cd	mg/l	APHA 3125_24th_EDITION	<0.0005
8	Copper as Cu	mg/l	APHA 3125_24th_EDITION	<0.01
9	Total Chromium as Cr	mg/l	APHA 3125_24th_EDITION	<0.005
10	Selenium as Se	mg/l	APHA 3125_24th_EDITION	<0.001
11	Boron as B	mg/l	APHA 24th Ed 3120 B	0.08
12	Phenolic Compounds as C6H5OH	mg/l	APHA 24th 5530D	<0.001
13	Manganese as Mn	mg/l	APHA 3125_24th_EDITION	0.05
14	Total Dissolved Solids at 180°C	mg/l	APHA 24th Edition 2540 C	618
15	Turbidity	NTU	APHA 24th Edition 2130 B	<0.1
16	Nitrate Nitrogen as NO3-	mg/l	APHA 24th 4500 NO3 B	12.2
17	Sulphates as SO4	mg/l	APHA 24th Ed 4500 SO4E	72.5
18	Cyanide as CN-	mg/l	APHA 24th 4500 CN E	<0.02
19	Calcium as Ca	mg/l	APHA 24th Ed 3500 Ca B	56.02
20	Magnesium as Mg	mg/l	APHA 24th Ed 3500 Mg B	23.1
21	Total Alkalinity as CaCO3	mg/l	APHA 24th Ed 2320 B	170
22	Total Hardness as CaCO3	mg/l	APHA23RD2340B	235
23	Zinc as Zn	mg/l	APHA 3125_24th_EDITION	0.09
24	Iron as Fe	mg/l	APHA 3125_24th_EDITION	0.08
25	Chloride as Cl	mg/l	APHA 24th Ed 4500 Cl B	160
26	Fluoride as F	mg/l	APHA 24th Ed 4500 F-D	0.64
27	Odour	—	IS 3025 (Part 5)	Agreeable
28	Anionic Surfactants as MBAS	mg/l	APHA 24th Edition 5540 C	<0.02
29	Mineral Oil	mg/l	IS 3025 (Part 39): 1991	<0.01
30	Taste	—	IS:3025 PART 7 & 8:1984	Agreeable



Scan the QR
code to check
the report
authenticity

Name and Designation of Authorized Signatory

Dr.Subbareddy Mallampati
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.

Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),

Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



Test Report

Issued To:
 BHUSHAN POWER & STEEL LIMITED
 THELKOLOI,
 TEH-RENGALI
 SAMBALPUR-768232
 ODISHA,IND
 Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/017
Issue Date: 2024-07-15
Your Ref. and Date: 2024-07-04
Lab Ref No.: 1764823
LIMS Report No.: 556907-A



Page 3 of 3

Kind Attn:Mr. Alope Datta
 ULR-TC541824000026372F
 Chemical
 Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
31	Aluminium as Al	mg/l	APHA 3125_24th_EDITION	<0.001

Results relate only to the sample tested.
Remarks:

- END OF THE TEST REPORT -



Scan the QR code to check the report authenticity

Name and Designation of Authorized Signatory



Dr. Subbareddy Mallampati
 Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.
 Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
 Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



NABL Scope

Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/018

Issue Date: 2024-07-15

Your Ref:
and Date: 2024-07-04

Lab Ref No.: 1764824

LIMS Report No.: 556908-A


Page 1 of 2

Kind/Attn: Mr. Alope Datta

Customer Provided Details :

Sample Name:	Surface Water-Bisidhi Village Talab-1,N-21007'06" E-84003'09"		
Batch Number:	NA	AR/Sample Code:	NA
Mfg. Date:	NA	Exp. Date:	NA
Test Required:	Colour, Turbidity, pH, Electrical Conductivity, Chemical Dissolved Oxygen (COD), BOD (3 days at 27°C), Total Hardness, Iron as Fe, Chloride, Fluoride, Total Dissolved Solids, Calcium, Magnesium, Copper, Manganese, Sulphates, Nitrate, Phenolic Compounds, Mercury, Cadmium, Selenium, Arsenic, Cyanide, Lead, Zinc & Anionic Surfactants.		
Other Details if Any:	NA		
Lab Provided Details :			
Sample Received Date:	2024-07-04	Sample Registration Date:	2024-07-05
Analysis Starting Date:	2024-07-05	Analysis Completion Date:	2024-07-10
Quantity Received:	1 Ltr Bottle X 2No's		
Sampling Details:	Sampling Date:2024.06.30		
Other Details if Any:	NA		

ULR-TC541824000026373F

**Chemical
Water**
TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
1	pH at 25°C		APHA 24th Ed 4500 H+	7.74
2	Electrical Conductivity at 25°C	µS/cm	APHA 24rd Ed 2510 B	460
3	Color	PC/Co units	APHA 24th 2120-C	<1.0
4	Arsenic as As	mg/l	APHA 3125_24th_EDITION	<0.001
5	Mercury as Hg	mg/l	APHA 3125_24th_EDITION	<0.0002
6	Lead as Pb	mg/l	APHA 3125_24th_EDITION	<0.005


 Scan the QR
code to check
the report
authenticity

Name and Designation of Authorized Signatory
**Dr. Subbareddy Mallampati
Manager - Environment**
Note : This report is subject to the terms and conditions mentioned at the end of the report.

 Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/018

Issue Date: 2024-07-15

Your Ref and Date: 2024-07-04

Lab Ref No.: 1764824

LIMS Report No.: 556908-A



Page 2 of 2

Kind Attn:Mr. Alope Datta
ULR-TC541824000026373F
Chemical
Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
7	Cadmium as Cd	mg/l	APHA 3125_24th_EDITION	<0.0005
8	Copper as Cu	mg/l	APHA 3125_24th_EDITION	<0.01
9	Selenium as Se	mg/l	APHA 3125_24th_EDITION	<0.001
10	Phenolic Compounds as C6H5OH	mg/l	APHA 24th 5530D	<0.001
11	Manganese as Mn	mg/l	APHA 3125_24th_EDITION	0.01
12	Total Dissolved Solids at 180°C	mg/l	APHA 24th Edition 2540 C	284
13	Turbidity	NTU	APHA 24th Edition 2130 B	<0.1
14	Nitrate Nitrogen as NO3-	mg/l	APHA 24th 4500 NO3 B	26.8
15	Sulphates as SO4	mg/l	APHA 24th Ed 4500 SO4E	9.56
16	Cyanide as CN-	mg/l	APHA 24th 4500 CN E	<0.02
17	Calcium as Ca	mg/l	APHA 24th Ed 3500 Ca B	18.04
18	Magnesium as Mg	mg/l	APHA 24th Ed 3500 Mg B	9.72
19	Total Hardness as CaCO3	mg/l	APHA23RD2340B	85
20	Biochemical Oxygen Demand 3days at 27°C	mg/l	IS 3025 Part 44 :2023	<3
21	Chemical Oxygen Demand at 150 °C	mg/l	APHA 23rd Ed 5220 B	<5
22	Zinc as Zn	mg/l	APHA 3125_24th_EDITION	0.05
23	Iron as Fe	mg/l	APHA 3125_24th_EDITION	0.02
24	Chloride as Cl	mg/l	APHA 24th Ed 4500 Cl B	45
25	Fluoride as F	mg/l	APHA 4500 FD-(SPADNS) 23rd Edition	0.22
26	Anionic Surfactants as MBAS	mg/l	APHA 24th Edition 5540 C	<0.02

Results relate only to the sample tested.

Remarks:

- END OF THE TEST REPORT -



Scan the QR code to check the report authenticity

Name and Designation of Authorized Signatory

Dr.Subbareddy Mallampati
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.

Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park), Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



NABL Scope

Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/019

Issue Date: 2024-07-15

Your Ref: and Date: 2024-07-04

Lab Ref No.: 1764825

LIMS Report No.: 556909-A



Page 1 of 2

Kind Attn:Mr. Aloke Datta

Customer Provided Details :

Sample Name:	Surface Water-Bisidhi Village Talab-2,N-21007'06" E-84004'01"		
Batch Number:	NA	AR/Sample Code:	NA
Mfg. Date:	NA	Exp. Date:	NA
Test Required:	Colour, Turbidity, pH, Electrical Conductivity, Chemical Dissolved Oxygen (COD), BOD (3 days at 27°C), Total Hardness, Iron as Fe, Chloride, Fluoride, Total Dissolved Solids, Calcium, Magnesium, Copper, Manganese, Sulphates, Nitrate, Phenolic Compounds, Mercury, Cadmium, Selenium, Arsenic, Cyanide, Lead, Zinc & Anionic Surfactants.		
Other Details if Any:	NA		

Lab Provided Details :

Sample Received Date:	2024-07-04	Sample Registration Date:	2024-07-05
Analysis Starting Date:	2024-07-05	Analysis Completion Date:	2024-07-10
Quantity Received:	1 Ltr Bottle X 2No's		
Sampling Details:	Sampling Date:2024.06.30		
Other Details if Any:	NA		

ULR-TC541824000026374F

Chemical
Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
1	pH at 25°C	—	APHA 24th Ed 4500 H+	7.74
2	Electrical Conductivity at 25°C	µS/cm	APHA 24rd Ed 2510 B	975
3	Color	Pt/Co units	APHA 24th 2120-C	<1.0
4	Arsenic as As	mg/l	APHA 3125_24th_EDITION	<0.001
5	Mercury as Hg	mg/l	APHA 3125_24th_EDITION	<0.0002
6	Lead as Pb	mg/l	APHA 3125_24th_EDITION	<0.005



Scan the QR
code to check
the report
authenticity

Name and Designation of Authorized Signatory

Dr.Subbareddy Mallampati
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.

Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
Genome Valley, Shamirpet, Medchal - Malkajiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



NABL Scope

Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: VLL/VLS/24/06493/019

Issue Date: 2024-07-15

Your Ref: and Date: 2024-07-04

Lab Ref No.: 1764825

*LIMS Report No.: 556909-A



Page 2 of 2

Kind Attn:Mr. Alope Datta
ULR-TC541824000026374F
Chemical
Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
7	Cadmium as Cd	mg/l	APHA 3125_24th_EDITION	<0.0005
8	Copper as Cu	mg/l	APHA 3125_24th_EDITION	<0.01
9	Selenium as Se	mg/l	APHA 3125_24th_EDITION	<0.001
10	Phenolic Compounds as C6H5OH	mg/l	APHA 24th 5530D	<0.001
11	Manganese as Mn	mg/l	APHA 3125_24th_EDITION	0.06
12	Total Dissolved Solids at 180°C	mg/l	APHA 24th Edition 2540 C	618
13	Turbidity	NTU	APHA 24th Edition 2130 B	<0.1
14	Nitrate Nitrogen as NO3-	mg/l	APHA 24th 4500 NO3 B	31.5
15	Sulphates as SO4	mg/l	APHA 24th Ed 4500 SO4E	52.16
16	Cyanide as CN-	mg/l	APHA 24th 4500 CN E	<0.02
17	Calcium as Ca	mg/l	APHA 24th Ed 3500 Ca B	32.06
18	Magnesium as Mg	mg/l	APHA 24th Ed 3500 Mg B	24.32
19	Total Hardness as CaCO3	mg/l	APHA23RD2340B	180
20	Biochemical Oxygen Demand 3days at 27°C	mg/l	IS 3025 Part 44 :2023	<3
21	Chemical Oxygen Demand at 150 °C	mg/l	APHA 23rd Ed 5220 B	<5
22	Zinc as Zn	mg/l	APHA 3125_24th_EDITION	0.11
23	Iron as Fe	mg/l	APHA 3125_24th_EDITION	0.08
24	Chloride as Cl	mg/l	APHA 24th Ed 4500 Cl B	210
25	Fluoride as F	mg/l	APHA 4500 FD-(SPADNS) 23rd Edition	0.19
26	Anionic Surfactants as MBAS	mg/l	APHA 24th Edition 5540 C	<0.02

Results relate only to the sample tested.

Remarks:

- END OF THE TEST REPORT -



Scan the QR
code to check
the report
authenticity

Name and Designation of Authorized Signatory

Dr. Subbareddy Mallampati
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.

Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



NABL Scope

Test Report

Issued To:

**BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569**

Registration/Report Number: VLL/VLS/24/02332/023
Issue Date: 2024-05-11
Your Ref: 2024-05-06
and Date: 1708535
Lab Ref No.: 536799-A
LIMS Report No.: 636799-A

VLL/VLS/24/02332/023

Page 1 of 2

Kind Attn: Mr. Aloke Datta

Customer Provided Details :

Sample Name:	AAQM -Tailing Pond		
Manufacturer:	NA		
Batch Number:	NA	A.R. Number/Sample Code:	NA
Mfg. Date:	NA	Exp. Date:	NA
Test Required:	PM(10),PM(2.5),Pb,Ni,As,BaP,SO2,NOx,NH3,O3,CO,C6H6		
Other Details if Any:	NA		

Lab Provided Details :

Sample Received Date:	2024-05-06	Sample Registration Date:	2024-05-06
Analysis Starting Date:	2024-05-06	Analysis Completion Date:	2024-05-09
Quantity Received:	2 Filter papers X 2 Nos+ Abs Sol 30ml X 4 Nos+ Co tube X 01 No		
Sampling Details:	Sampling Date & Time: 2024-04-25;10:45 AM to 2024-04-26;10:45 AM		
Other Details if Any:	NA		

Chemical

Atmospheric Pollution



Scan the QR code to check the report authenticity

Name and Designation of Authorized Signatory

Dr.SUBBAREDDY MALLAMPATI
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.
 Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
 Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



Test Report

Issued To:

BHUSHAN POWER & STEEL LIMITED
THELKOLOI,
TEH-RENGALI
SAMBALPUR-768232
ODISHA,IND
Ph: Mob:9437150569

Registration/Report Number: **VLL/VLS/24/02332/023**
Issue Date: 2024-05-11
Your Ref:
and Date: 2024-05-06
Lab Ref No.: 1708535
LIMS Report No.: 536799-A

VLL/VLS/24/02332/023

Page 2 of 2

Kind Attn:Mr. Aloke Datta

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Requirements	Results
1	Particulate Matter (PM10)	µg/m ³	IS 5182 (PART-23) RA 2017	100	92.3
2	Particulate Matter (PM2.5)	µg/m ³	IS 5182 (Part-24) 2019	60	44.9
3	Sulphurdioxide as SO2	µg/m ³	IS 5182 (Part-2) RA 2017	80	30.7
4	Oxides of Nitrogen as NO2	µg/m ³	IS 5182 (Part-6) RA 2017	80	36.4
5	Ozone as O3	µg/m ³	IS 5182 (Part-9) RA 2019	100	12.4
6	Ammonia as NH3	µg/m ³	APHA 401	400	19.4
7	Carbonmonoxide as CO	mg/m ³	IS5182PART10 RA 2019	2.0	0.82
8	Lead as Pb	µg/m ³	USEPA IO 3.4	1.0	<0.1
9	Nickel as Ni	ng/m ³	USEPA IO 3.4	20	12.2
10	Arsenic as As	ng/m ³	USEPA IO 3.4	6.0	<1.0
11	Benzene as C6H6	µg/m ³	IS5182 (PART-11) RA 2017	5.0	BDL
12	Benzo(a)Pyrene	ng/m ³	IS 5182 (Part-12) RA 2019	1.0	BDL

Results relate only to the sample tested.

Remarks: Requirements as per National Ambient Air Quality Standards:2009, Instrument used GC MS/MS & GC MS Head Space (Limit of quatification-0.00001 ppb).

- END OF THE TEST REPORT -



Scan the QR code to check the report authenticity

Name and Designation of Authorized Signatory

[Signature]

Dr.SUBBAREDDY MALLAMPATI
Manager - Environment

Note : This report is subject to the terms and conditions mentioned at the end of the report.

Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park), Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone : +91-40-6740 4040



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



TC-12740

Annexure - 4

TEST REPORT

Page 1 of 1

1. ULR No. : TC127402400000872F
- 2 (i). Report No. : OS/829/10/2024
- 2 (ii). Amendment No. : ---
- 3 (i) Date : 15.10.2024
- 3 (ii) Amendment Date : ---
4. Sample Submitted By : Sri B. K. Nayak, FA
(Name and address) Regional Office, SPCB, Odisha, Sambalpur
5. Reference Letter No. : 3396/ VI -Lab(Misc) -13/2018-19 dt.08.10.2024
6. Date of sample receipt : 09.10.2024
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 : 09.10.2024 – 14.10.2024
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	Sample collected from Water body near iron ore tailing pond of M/s Bhushan Power & Steel Ltd., (BPSL) Thekoloi, Lapanga, Sambalpur	
		Applicable for Sl. No. Others/Oct - 24/SW/1742 & Others/Oct -24/ SW/1743			Others/Oct - 24/ SW/ 1742	Others/Oct -24/ SW/ 1743
		IS : 2296, (1982) Class -B *	G.S.R.742 (E) **		Water sample from Bisadihi village pond no.1 near iron ore tailing pond of M/s BPSL, Thekoloi, Sambalpur	Water sample from Bisadihi village pond no.2 near iron ore tailing pond of M/s BPSL, Thekoloi, Sambalpur
					Results	
1.	pH	6.5-8.5	6.5-8.5	4500-H* -B, APHA, 23 rd Edn., 2017	7.8	7.7
2.	Total Dissolved Solids (TDS), mg/L	-	-	2540 C, APHA, 23 rd Edn., 2017	204.0	316.0
3.	Iron (Fe), mg/L	-	-	3500 Fe - B, APHA, 23 rd Edn., 2017	0.258	0.249

* Tolerance limit for inland surface water subject to pollution (IS : 2296-1982), for Class 'B' (Outdoor bathing)

** Primary water quality criteria for bathing water (water used for organised outdoor bathing)

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
15.10.2024
Authorised Signatory
(Water/wastewater)

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

N. Mallick
15/10/24
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.

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@ospceboard.org Website : www.ospceboard.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



Annexure - 5

TEST REPORT

Page 1 of 2

1. ULR No. : TC127402400000873F
- 2 (i). Report No. : OS/830/10/2024
- 2(ii). Amendment No : ---
- 3 (i) Date : 15.10.2024
- 3(ii) Amendment Date : ---
4. Sample Submitted By : Sri B.K. Nayak, FA
(Name and address) Regional Office, SPCB, Odisha, Sambalpur
5. Reference Letter No. : 3396/ VI -Lab(Misc) -13/2018-19 dt.08.10.2024
6. Date of sample receipt : 09.10.2024
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 : Ground water
(Surface water/ Ground water/ Drinking water / Wastewater/ Effluent/ Ambient Air/ Stack/ Soil and Hazardous Waste)
8. Analysis Starting Date-Analysis Completion Date : 09.10.2024 – 14.10.2024
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	Ground water samples collected from nearby village from iron ore tailing pond of M/s Bhushan Power & Steel Ltd., (BPSL) Thekolo, Lapanga, Sambalpur
		Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		
					Others/Oct - 24/ GW/1744
					Ground water of Test well -1 near iron ore tailing pond-3 of M/s. BPSL., Thekolo, Sambalpur
					Results
1.	pH	6.5-8.5	No relaxation	4500-H* -B, APHA, 23 rd Edn., 2017	7.8
2.	Total Dissolved Solids (TDS), mg/L	500, max	2000, max	2540 C, APHA, 23 rd Edn., 2017	140.0
3.	Iron (Fe), mg/L	1.0	No relaxation	3500 Fe - B, APHA, 23 rd Edn., 2017	0.273

Sl. No.	Parameter, Unit	Ground water samples collected from nearby village from iron ore tailing pond of M/s Bhushan Power & Steel Ltd., (BPSL) Thekolo, Lapanga, Sambalpur				
		Others/Oct - 24/ GW/1745	Others/Oct - 24/ GW/1746	Others/Oct - 24/ GW/1747	Others/Oct - 24/ GW/1748	Others/Oct - 24/ GW/1749
		Ground water of Test well -2 near iron ore tailing pond - 4 & 12 of M/s. BPSL., Thekolo, Sambalpur	Ground water of Test well -3 near iron ore tailing pond-2 of M/s. BPSL., Thekolo, Sambalpur	Ground water from tube well at Banji bererna village entrance	Ground water from tube well at Gandapada in front of Siba Nayak house, Bisadishi village	Ground water from Tube well at Govt. Primary School, Bisadihi village
						Results
1.	pH	7.6	7.3	7.7	7.5	7.2
2.	Total Dissolved Solids (TDS), mg/L	244.0	736	148	192	292
3.	Iron (Fe), mg/L	0.408	0.050	0.137	0.994	0.736

(Cont.)

Sl. No	Parameter, Unit	Ground water samples collected from nearby village from iron ore talling pond of M/s Bhushan Power & Steel Ltd., (BPSL) Thekoloī, Lapanga, Sambalpur				
		Others/Oct - 24/ GW/1750	Others/Oct - 24/ GW/1751	Others/Oct - 24/ GW/1752	Others/Oct - 24/ GW/1753	Others/Oct - 24/ GW/1754
		Ground water from tube well at Brahamanpada, Bisadihi village	Ground water from Dug well of Santosh Kalo house, Bisadihi village	Ground water sample from tube well in front of Santosh Kalo house, Bisadihi village	Ground water from tube well at Sunamal village -1	Ground water from tube well at Sunamal village -2
Results						
1.	pH	7.4	7.5	7.4	6.9	7.1
2.	Total Dissolved Solids (TDS), mg/L	256.0	172.0	188.0	484.0	516.0
3.	Iron (Fe), mg/L	0.348	0.035	16.153	0.994	0.447

* Drinking water specification, IS 10500: 2012, and its amendments, applicable for Sl. No. Others/Oct - 24/ GW/1744 to Others/Oct - 24/ GW/1754

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-----

U. Patnaik
15-10-2024

Authorised Signatory
(Water/wastewater)

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

N. Mallick
15/10/24

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.

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, Website : www.osp-board.org



STATE POLLUTION CONTROL BOARD, ODISHA
 (FOREST, ENVIRONMENT & CLIMATE CHANGE DEPARTMENT, GOVT. OF ODISHA)
 A/118, Nilakanthanagar, Unit-VIII, Bhubaneswar 751012
 EPABX-2560929,2561909, Tel: 2564573,2562368,
 Email :paribesh1@ospboard.org, Website : www.ospboard.org

No 16756 /IND-I-CON-4650

Dt 21.10.2024 /

By Speed Post / Email
anilkumar.singh@jswbpsi.in
Prakash.baral@jswbpsi.in

SHOW CAUSE NOTICE U/S. 21 & 31A OF THE AIR (PCP) ACT, 1981 & U/S. 25 & 33A OF WATER (PCP) ACT, 1974 AND AMENDMENTS THEREUNDER.

WHEREAS, you are operating an Integrated Steel Plant of capacity 4.5 MTPA along with captive power plant of 506 MW in the name & style of M/s. Bhushan Power and Steel Ltd. At: Thelkoloi, P.O.: Lapanga, Dist: Sambalpur with consent of the Board valid up to 31.03.2025 subject to strict compliance to consent conditions.

AND WHEREAS, a joint enquiry was conducted by the committee comprising of Scientist-D, Regional Directorate, CPCB, Kolkata, Addl. District Magistrate, Sambalpur and Regional Officer, SPC Board, Sambalpur on 28.06.2024 in compliance to the order dt. 12.03.2024 of Hon'ble NGT, EZB, Kolkata in the matter of O.A. No. 43/2024/EZ - Akash Kalo & others Vrs. JSW (BPSL) Power and Steel Limited & Ors., and certain lapses were observed by the committee.

AND WHEREAS, a direction under section 31A of the Air (PCP) Act, 1981 & U/s. 33A of Water (PCP) Act, 1974 as amended thereafter was issued to your unit vide Board's letter no. 13279 dt. 21.08.2024 to take the following corrective measures as per the recommendation of joint enquiry committee and furnish action taken report to the Board within 15 days:

- Construct stone pitching around the tailing pond facing towards the Pond of village Bisadihi to protect any spillage towards the village Pond.
- Engage an accredited organization for carrying periodical monitoring of groundwater and Pond, dug well, and tube well of the alleged village as well as ambient air quality monitoring at the dump site and the report shall be submitted to the Board.
- Carry out plantation activity beside the tailing pond towards the Bisadihi village.
- Engage a third party to study the environmental impact of the iron ore tailing pond around a 10 km radius of the Tailing Pond in consultation with the State Pollution Control Board.

AND WHEREAS, you have submitted your reply in pursuance to above direction vide letter no. JSWBPSL/ENV/24-25/042 dt. 21.08.2024.

AND WHEREAS, your unit was inspected on 07.10.2024 by Regional Office, Sambalpur (**Copy of inspection enclosed**) to verify the compliance status in pursuance to the order dt. 23.08.2024 of the Hon'ble NGT, Kolkata and following non compliances are observed:

- The embankment of the tailing pond facing the Pond of the village Bisadihi was not stone pitched and no work has been commenced for stone pitching till date.

- b) You have not submitted a periodical monitoring report of groundwater and Pond, dug well, and tube well of the alleged village as well as ambient air quality monitoring at the dump site to the Board.
- c) You have not yet carried out plantation activity beside the tailing pond towards the Bisadihi village.
- d) You have not yet engaged a third party to study the environmental impact of the iron ore tailing pond around a 10 km radius of the Tailing Pond in consultation with the State Pollution Control Board.

AND WHEREAS, the non-compliances mentioned above establishes that you have failed to failed to comply with the direction issued on 21.8.2024 and in controlling pollution created by your industry .

NOW, THEREFORE, you are directed to show cause under Section 25 & 33A of the Water (PCP) Act, 1974 and Section 21 & 31 A of the Air (PCP) Act, 1981 as amended thereafter and Rules framed there under within 15 (fifteen) days from the date of issue of this notice as to why consent to operate granted in favour of 1200 TPH Iron Ore beneficiation Plant vide Board's CTO order No-3439 Dt 12/3/2024 in favour of your unit shall not be revoked and direction of closure shall not be issued to the said process unit . In case your explanation is not received within the stipulated time period or the explanation is found to be not satisfactory, appropriate action as deemed proper shall be taken against your industry.

Encl: As above.


MEMBER SECRETARY

To

**The Director
M/s Bhusan Power and Steel Ltd.
At-Thelkoi, P.O.-Lapanga
Dist-Sambalpur, Odisha**

Memo No. 16757 /Dt. 21.10.2024 / (By E-mail)

Copy forwarded to the Regional Officer, State Pollution Control Board, Sambalpur for information and necessary action.


CHIEF ENV. ENGINEER

