



Jharkhand <jam.env2018@gmail.com>

Sub:- Regarding compliance for the period October, 2021 to March, 2022 to the conditions of Environment Clearance for Expansion of existing 1,20,000 TPA Sponge Iron Plant by installation of new facilities for production of Steel Melting Shop for 1,08,000 TPA of Billets, Rolling mill (90,000 TPA), Iron Ore crushing & Beneficiation plant (2,70,000TPA), Slag Crushing Plant (16,200 TPA), Captive Power Plant 18MW (4X2 MW WHRB:1X10 MW AFBC) and Briquetting unit for Iron ore fines (40,100 TPA).

1 message

Jharkhand <jam.env2018@gmail.com>

Sat, Jun 18, 2022 at 11:36 AM

To: ro.ranchi-mef@gov.in

Cc: rdkolkata.cpcb@gov.in, ranchijspcb@gmail.com, jspcb_hazaribagh@rediffmail.com

Bcc: Jharkhand <jam.env2018@gmail.com>

AS IPL/23/ 2022-23

15/06/2022

To,
The Additional Principal Chief Conservator of Forests (C),
Government of India,
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office (Eastern Central Zone),
2nd Floor, Headquarter-Jharkhand State Housing Board,
Harmu Chowk, Ranchi, Jharkhand- 834002

Sub:- Regarding compliance for the period October, 2021 to March, 2022 to the conditions of Environment Clearance for Expansion of existing 1,20,000 TPA Sponge Iron Plant by installation of new facilities for production of Steel Melting Shop for 1,08,000 TPA of Billets, Rolling mill (90,000 TPA), Iron Ore crushing & Beneficiation plant (2,70,000TPA), Slag Crushing Plant (16,200 TPA), Captive Power Plant 18MW (4X2 MW WHRB:1X10 MW AFBC) and Briquetting unit for Iron ore fines (40,100 TPA).

Ref: - Environment Clearance Letter No. F. NO. J-11011/205/2016-IA.II (I) Dated- 23rd July, 2018.

Dear Sir,


In reference to the above subject matter & reference letters, the point wise Half Yearly compliance status for the period of October, 2021 to March, 2022 is being submitted. The soft copy is also sent through e-mail for your kind perusal please.

Hope you will find this in order and oblige.

Thanking you.

Yours faithfully

For Alope Steels Industries Pvt Ltd.

 **AS IPL - EC Compliance - Oct 21 to March 22.pdf**
11611K

Aloke Steels Industries Private Limited

REGD OFFICE

: OPP. ASHOK CINEMA,
RANCHI ROAD, MARAR -829 117
DIST. - RAMGARH (JHARKHAND)
: U27103JH2004PTC010725
: asipl.ramgarh@gmail.com

CIN
Email

WORKS :

Vill : Budhakhap
Post : Karma -829137
Dist.-Ramgarh,(Jharkhand)

Ref. No.....

Date.....

ASIPL/23/ 2022-23

To,

The Additional Principal Chief Conservator of Forests (C),
Government of India,
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office (Eastern Central Zone),
2nd Floor, Headquarter-Jharkhand State Housing Board,
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Hope you will find this in order and oblige.

Thanking you.

Yours faithfully

For Aloke Steels Industries Pvt Ltd.

Authorized Signatory

Enclosures: Compliance status Report.

Cc to:-

- 1) The Zonal office Incharge, Central Pollution Control Board, Southernd Conclave, Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700 107 (W. B.).
- 2) The Member Secretary, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor), HEC Campus, P.O. Dhurwa, Ranchi - 834004, Jharkhand.
- 3) Regional Officer, Regional Office, State Pollution Control Board, Hazaribagh, Jharkhand.





Jharkhand
State Pollution Control Board

Online Consent Management & Monitoring System

Ministry of Environment, Forest and Climate Change
Government of India



Home Laboratory Management Waste Management CESS Management Knowledge Base Logout

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- ▶ Laboratory Monitoring Report
- ▶ Online Payment Verification
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- ▶ e-Wallet Management
- ▶ Delete InProgress Applications
- ▶ Delete InProgress LAB Applications
- ▶ View Notices 0



Welcome ALOKE STEELS INDUSTRIES PRIVATE LIMITED

Date : 15-6-2022

Your Compliance details has been Submitted. Your Acknowledgement Number is 13493199. Thank You!.

General

General Details

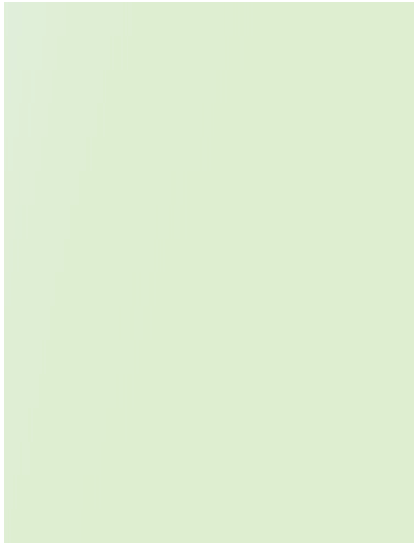
Industry Name:	ALOKE STEELS INDUSTRIES PRIVATE LIMITED
Industry Address:	VILL: BUDHAKHAP, PO: DIGWAR, RAMGARH
Industry Pin:	829137
Industry S.T.D. Code(Phone):	06553
Industry Phone No:	226846
Industry E-Mail Address:	asipl.ramgarh@gmail.com
Occupier Name:	KAMENDRA MISHRA
Occupier Designation:	DIRECTOR
Occupier Address:	NEAR PNB, MAIN ROAD
Occupier Pin:	829122
Occupier Mobile No:	
Occupier Email Address:	asipl.ramgarh@gmail.com
Industry Category:	RED
Industry Type:	Iron & Steel involving processing from ore/integrated steel plan
Last Consent Granted App. No:	<input type="text" value="10535965"/>
Last Consent Granted Uploaded Certificate:	View Uploaded Certificate
Last Consent Granted App. Type:	CTO
Authorization to file Compliance:	View File

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and suggestions



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Proposal No.	State	Proposal Name	Category	User Agency Name	Proposal Recieved on	File No	Date of grant
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General Condition:

[View](#)

Specific Condition:

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Environment Clearance Compliance Status
Period from October -2021 to March -2022

Name of Project:	Aloke Steels Industries Pvt. Ltd.
Capacity:	Expansion of existing 1,20,000 TPA Sponge Iron Plant by installation of new facilities for production of Steel Melting Shop for 1,08,000 TPA of Billets, Rolling mill (90,000 TPA), Iron Ore crushing & Beneficiation plant (2,70,000 TPA), Slag Crushing Plant (16,200 TPA), Captive Power Plant 18 MW (4X2 MW WHRB: 1X10 MW AFBC) and Briquetting unit for Iron ore fines (40,100 TPA).
Location:	Village - Budhakhap, P.O – Karma, Distt. – Ramgarh, Jharkhand.
EC letter No.	F. NO. J-11011/205/2016-IA.II (I) Dated- 23 rd July, 2018.

A. SPECIFIC CONDITION:

S.No	CONDITION	COMPLIANCE
i)	The project proponent shall revise the layout by removing the tailing pond, providing additional entry gate, sufficient parking area and green belt in 8.24 Ha, space for storage of filter cakes, etc.	Complied the layout is revised as directed.
ii)	The project proponent shall install the filter press/belt filter and make a filter cake of the tailing and sent to dispose to the users of the same.	Noted, will be complied with project installation.
iii)	The project proponent shall install the briquetting plant for briquetting/amalgamation of dust collected from air pollution control device including mill scales.	Noted, will be complied with project installation.
iv)	No ground water shall be extracted during construction and operation of the project.	Agree with. Surface Water drawl agreement executed with DVC for drawl of water from Damodar River.

GENERAL CONDITIONS:

S.No	CONDITION	COMPLIANCE
1	An amount of Rs 160 Lakhs proposed towards Corporate Environment Responsibility shall be utilized as capital expenditure in project mode. The project shall be completed in concurrence with the implementation of the expansion and estimated on the basis of Scheduled Rates.	Noted, will be complied in due course.

2	Green belt shall be developed in 8.24 Ha of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Being complied, for 8.24 ha will be completed in due course.
3	The Capital cost Rs. 945.0 Lakhs and annual recurring cost Rs. 105.50 Lakhs towards the environment protection measures shall be earmarked separately. The funds so provided shall not be diverted for any other purpose.	Noted, will be complied in due course.
4	The project proponent shall (Air Quality Monitoring):	
a)	Install 24x7 continuous emission monitoring system at process stacks to monitor stacks emission with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30 th May 2008 as amended from time to time S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (protection) Act, 1986 or NABL accredited laboratories.	Being complied for existing coal based Sponge Iron plant online monitoring systems are installed for monitoring of PM & SO ₂ emission of stack and it is connected online with Central Pollution Control Board and Jharkhand State Pollution Control Board URL server. Compliance regarding expansion project we have noted and will comply in due course.
b)	Monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Being complied for existing coal based Sponge Iron plant. Noted for compliance in expansion project. Test monitoring report is enclosed as Annexure - 1 .
c)	Install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NO _x in reference to SO ₂ and NO _x emission) within and outside the plant area (at least at four location one within and three outside the plant area at an angle of 120° each), covering upwind and downwind direction; and	As per direction of Jharkhand State Pollution Control Board vide letter no B-19 issued on 28/02/2019, we have installed Continuous Ambient Air Quality Monitoring Station for PM 10 parameter and it is connected online with Jharkhand State Pollution Control Board URL server. JSPCB submitted copy regarding

		<p>installation with commissioning of PM10 analyzer is enclosed as Annexure -2.</p> <p>Further we will comply in expansion project in due course.</p>
d)	<p>Submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emission to Regional office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-Monthly monitoring report.</p>	<p>Monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality report of existing plant is enclosed as Annexure - 3.</p> <p>Noted for compliance in expansion project.</p>
5	The project proponent shall (Water Quality Monitoring):	
a)	<p>Install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30th May 2008; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plant) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p>	<p>No industrial effluent is generated, domestic discharge are made in close circuit.</p> <p>In compliance to Zero Liquid Discharge (ZLD), the web camera and flow meter are installed and it is connected online with Central Pollution Control Board and Jharkhand State Pollution Control Board URL server.</p> <p>Noted for compliance in expansion project.</p>
b)	<p>Monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (protection) Act, 1986 and NABL accredited laboratories; and</p>	<p>Being complied on regular basis.</p> <p>Ground Water quality monitoring report & Piezometer reading are enclosed as Annexure - 4.</p>
c)	<p>Submit monthly summery report of continuous effluent monitoring and result of manual effluent testing and manual monitoring of ground water quality to Regional Office of SPCB along with six-monthly monitoring report.</p>	<p>No industrial effluent is generated, domestic discharge are made in close circuit.</p> <p>In compliance to Zero Liquid Discharge (ZLD), the web camera and flow meter are installed and it is connected online with</p>

		Central Pollution Control Board and Jharkhand State Pollution Control Board URL server. Noted for compliance in expansion project.
6	The project proponent shall (Air Pollution Control):	
a)	Provide appropriate Air Pollution Control (APC) system for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Being complied for existing plant, noted for compliance in expansion project.
b)	Provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags;	Being complied for existing plant, noted for compliance in expansion project.
c)	Provide pollution control system in the steel plant as per the CREP Guidelines of CPCB;	Noted, will be complied in due course.
d)	Provide sufficient number of mobile or stationary vacuum cleaners to clean plant roads, shop floors, roofs regularly;	Adequate arrangement of cleaning and sprinkling of water has been made. Noted, will be complied in due course in expansion project.
e)	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning device in the process after briquetting / agglomeration;	Being complied for existing plant, noted for compliance in expansion project.
f)	Ensure covered transportation and conveying of ore, coal and other raw material to prevent spilling and dust generation;	Being complied for existing plant, noted for compliance in expansion project.
g)	Provide wind shelter fence and chemical spraying on the raw material stocks pipe.	For existing plant, units has provided coved storage shed have been provided for all raw materials like coal, Iron ore etc. Noted, will be complied in due course in expansion project.
7	The project proponent shall (Water pollution Control):	
a)	Adhere to 'Zero liquid discharge,;	Being complied for existing coal based sponge iron plant, noted

		for compliance in expansion project.
b)	Provide Sewage Treatment Plant for domestic wastewater ; and	Being complied for existing plant, noted for compliance in expansion project.
c)	Provide garland drains and collected pits for each stock pipe to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run-off.	Being complied for existing plant, noted for compliance in expansion project.
8	The project proponent shall (Water Conservation)	
a)	Practice rainwater harvesting to maximum possible extent; and	Being complied for existing plant, noted for compliance in expansion project.
b)	Make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Being complied for existing plant, noted for compliance in expansion project.
9)	The project proponent shall (Energy Conservation):	
a)	Provide waste heat recovery system on the DRI kilns;	Being complied, installation of WHRB is the part of the project.
b)	Use dolochar generated for power generation;	Being complied, installation of AFBC is the part of the project.
c)	Provide solar power generation on roof tops of building, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly ; and	Noted, will be complied in due course.
d)	Provide the project proponent for LED lights in their offices and residential areas;	Being complied for existing plant, noted for compliance in expansion project.
10	Used refractories shall be recycled as far as possible.	Noted, will be complied in due course.
11	The project proponent shall prepare GHG emission inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	Noted, will be complied in due course.
12	Emergency preparedness plan based on the Hazard identification and Risk Assessment	Being complied for existing plant, noted for compliance in

	(HIRA) and Disaster Management Plan shall be implemented.	expansion project.
13	The project proponent shall carry out heat stress analysis for the workmen who work in the high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of factory Act.	In sponge iron unit PPE is provided. The high temperature work zone of expansion unit will be complied in due course.
14	The project proponent shall adhere to the corporate environmental policy and system of the reporting of any infringement/non-compliance of EC condition at least once in a year to the Board of Directors and the copy of the board resolution shall be submitted to the MoEF&CC as a part of six-monthly report.	Noted, will be complied in due course.
15	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel plants shall be implemented.	Being complied on regular basis.
16	A dedicated environmental cell with qualified personnel shall be established. The head of the environment cell shall report directly to the head of the organization.	Organization of Environment Management Cell is enclosed as Annexure - 5 .
17	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, Mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Noted for compliance in due course with start of the construction activities.
18	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted, will be complied in due course.
19	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).	Noted, will be complied in due course.
20	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management &	Being complied for existing plant, noted for compliance in

	Tranboundary Movement) Rules, 2016.	expansion project.
21	The ambient noise levels should confirm to the standards prescribed under EPA Rules, 1989 viz. 75 dB during day time and 70 dB during night time.	Being complied for existing coal based Sponge Iron plant. Test monitoring report is enclosed as Annexure – 1 . Noted for compliance in expansion project.
22	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Periodical health check-up are being carried and record are maintained.
23	The project proponent shall also comply with all the environment protection measures and safeguards recommended in the EIA/EMP report.	Being complied for existing plant, noted for compliance in expansion project.
24	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional Office.	Noted, will be complied in due course.
25	Kitchen waste shall be composted or converted to biogas for further use.	Being complied for existing plant, noted for compliance in expansion project.
26	The project proponent shall (Post-EC monitoring):	
a)	Send a copy of environment clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;	Complied.
b)	Put on the clearance letter on the web site of the company for access to the public.	Complied. The copy of environment clearance letter is available on the web site of www.asipl.in .
c)	Inform the public through advertisement within seven days from the date of issue of the clearance letter, at least two local newspaper that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environment clearance by the Ministry and copies of the clearance letter are available with the SPCB and may	Complied. The notice has been published (English language) in 2 newspapers "Dainik Jagran" dt-02/08/2018 and "Prabhat Khabar" dt-01/08/2018. As per direction it is published in

	also be seen at Website of the Ministry of Environment, Forest and Climate Change (MoEF&CC) at http://envfor.nic.in .	the vernacular language in 2 newspapers “Danik Jagaran” dt 15/07/2020 & “Prabhat Khabar” dt 12/07/2020. The copy of environment clearance letter is available on the web site of http://envfor.nic.in .
d)	Upload the status of compliance of the stipulated environment clearance conditions including results of monitored data on their website and update the same periodically;	Noted. Status of compliance available on the company web site www.asipl.in .
e)	Monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emission) or critical sectoral parameters, indicated for the project and display the same at a convenient location for disclosure to the public and put on the website of the company;	Being complied for existing plant, noted for compliance in expansion project. Display board has been displayed on main gate.
f)	Submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB;	Noted, will be complied in due course. Compliance report submitting on regular basis to the Regional Office of MoEF&CC, the Zonal office of CPCB and the SPCB. Last six monthly submitted compliance reports with email copy enclosed as Annexure -6 .
g)	Submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (protection) Rules, 1986 as amended subsequently and put on the website of the company;	Being complied for existing plant, noted for compliance in expansion project. Environment Statement Report has been uploaded on the company web site www.asipl.in . Environment Statement Report enclosed as Annexure -7 .
h)	Inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Noted, will be complied in due course.

24.0	The ministry may revoke or suspend the clearance, if implementation of any of the above condition is not satisfactory.	Noted the content to adhere the compliance.
25.0	The ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted the content, will be complied in due course.
26.0	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and that during their presentation to the EAC. The commitment made by the project proponent to the issue raised during Public Hearing shall be implemented by the proponent.	Noted, will be complied in due course.
27.0	The above condition shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of pollution) Act, 1974 the air (Prevention & Control of Pollution) Act, 1981, the environment (protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted the content, will be complied in due course.
28.0	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted the content to adhere the compliance.

Thanking you.

Yours faithfully

For Alope Steels Industries Pvt Ltd.

LPO
15/06/22
Authorized Signatory



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



Accredited by :- NABL accredited testing laboratory vide certificate Number TC-4032
 Jharkhand State Pollution Control Board (JSPCB)
 Certified by :- ISO 9001:2015 & ISO 45001:2018

TC-4032

Test Certificate

ULR (Unique Lab Report) No.		T C 4 0 3 2 2 2 0 0 0 0 8 4 3 F													
Discipline	Chemical	Group	Atmospheric Pollution				Sample Description				Ambient Air Quality				
Report Release Date	23 rd May, 2022				Report ID	YBAEEL-220505-114227-A01									
W. Order/ JSPCB App. No.	13130692				Work Order Date	04.05.2022									
Type of Industry (If any)	Sponge Iron Unit				Job code/ Ref. no.	YBAEEL/WA/LJA/May-22/28									
Report Issue to	M/s Alope Steels Industries Private Limited Vill - Budhakhap, PO - Digwar, Ramgarh, Jharkhand.														
Sampling Period	18/05/2022- 19/05/2022				Mode of sample collection	By YBAEEL Team									
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-1(NAAQM/36/2012-13)														
Sampling Locations	A. Near Main Gate				23°39'43.64"N, 85°33'15.00"E										
Meteorological Cond. of Field	W.C.- Partly Cloudy/Drizzling				RH % - 48		Temp. - 30°C		W.D.- West-East						
Sample receipt Date	19/05/2022		Analysis Started on	19/05/2022		Analysis completed on	21/05/2022								

*****Test Results*****

Parameters	Test Methods	Units	MU %	Sampling Location	Limits
				Site A	
Particulate matter (PM ₁₀)	IS:5182 (P-23) 2006, RA 2017	µg/m ³	2.68	89.5	100
Particulate matter (PM _{2.5})	IS:5182 (P-24) 2019	µg/m ³	2.60	49.5	60
Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001 RA 2017	µg/m ³	7.84	17.1	80
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2017	µg/m ³	4.17	37.0	80

*****End of Report*****

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C)
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples comply with prescribed limits.

Sample Drawn By - Angad Munda
 Tested By - Amit Kumar Sinha (Lab Analyst)

Only CONCERN for
 Jharkhand State Pollution Control Board
 Application No. 13130692
 Allotted Date 04.05.2022
 Submission Date 23.05.2022

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager

Authorized Signatory
 Atmospheric Pollution
 Yugantar Bharati Analytical &
 Environmental Engineering Laboratory

Technical Manager
 Yugantar Bharati Analytical &
 Environmental Engineering Laboratory

Branch Office :- Jamshedpur | Dhanbad | Hazaribag | Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
 Ph : 09835-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



ISO 9001:2015
 ISO 45001:2018



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - Jharkhand State Pollution Control Board (JSPCB)

Certified by: - An ISO 9001:2015 & ISO 45001:2018



Test Certificate

Discipline	Chemical	Group	Atmospheric Pollution	Sample Description	Fugitive Emission
Report Release Date	23 rd May, 2022		Report ID	YBAEEL-220505-114227-F01	
W. Order/ JSPCB App. No.	13130692		Work Order Date	04.05.2022	
Type of Industry (If any)	Sponge Iron Unit		Job code/ Ref. no.	YBAEEL/WA/LA/May-22/28	
Report Issue to	M/s Alope Steels Industries Private Limited Vill - Budhakhap, PO - Digwar, Ramgarh, Jharkhand.				
Sampling Period	18/05/2022	Mode of sample collection		By YBAEEL Team	
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-1(NAAQM/36/2012-13)				
Sampling Locations	A. Raw Material Handling Area (10 mtr. away from source)		23°39'49.52"N, 85°33'04.71"E		
	B. Product Handling Area (10 mtr. away from source)		23°39'48.93"N, 85°33'06.71"E		
Meteorological Cond. of Field	W.C.- Partly Cloudy/Drizzling	RH % - 48	Temp. - 30°C	W.D.- West-East	
Sample receipt Date	19/05/2022	Analysis Started on	19/05/2022	Analysis completed on	21/05/2022

Test Results

Parameters	Test Method	Units	Sampling Location		Limit
			Site A	Site B	
Suspended Particulate matter (SPM)	IS:5182 (P-IV) 1999	µg/m ³	1819.1	1639.4	2000
Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001 RA 2017	µg/m ³	11.5	9.2	-
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2017	µg/m ³	25.9	22.7	-

End of Report

Limit is specified as	Environmental (Protection) Rule - 1986. (8 hours basis)
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility.
	This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
	This report cannot be reproduced, except when in full, without the written permission of the CEO.
	The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise
Remarks	The liability of the laboratory is limited to the invoiced amount.
	All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples comply with prescribed limits.

Sample Drawn By - Angad Munda
 Tested By - Amit Kumar Sinha (Lab Analyst)

Only CONCERN for
 Jharkhand State Pollution Control Board
 Application No. 13130692
 Allotted Date 04.05.2022
 Submission Date 23.05.2022

Verified by	Issued by
Brij Nandan Kumar	Umesh Das
Section In-Charge	Technical Manager

Authorized Signatory
 Atmospheric Pollution
 Yugantar Bharati Analytical &
 Environmental Engineering Laboratory

Technical Manager
 Yugantar Bharati Analytical &
 Environmental Engineering Laboratory

Branch Office: - Jamshedpur | Dhanbad | Hazaribag | Pakur

Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand

Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



ISO 45001:2018



ISO 9001:2015



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



Accredited by: - NABL accredited testing laboratory vide certificate Number TC-4032
 Jharkhand State Pollution Control Board (JSPCB)
 Certified by: - ISO 9001:2015 & ISO 45001:2018

TC-4032

Test Certificate

ULR (Unique Lab Report) No.		T C 4 0 3 2 2 2 0 0 0 0 0 8 4 4 F													
Discipline	Chemical	Group	Atmospheric Pollution				Sample Description				Ambient Noise				
Report Release Date	23 rd May, 2022				Report ID				YBAEEL-220505-114227-N01						
W. Order / JSPCB App. No.	13130692				Work Order Date				04.05.2022						
Type of Industry (If any)	Sponge Iron Unit				Job code/ Ref. no.				YBAEEL/WA/LIA/May-22/28						
Report Issue to	M/s Aloke Steels Industries Private Limited Vill - Budhakhap, PO - Digwar, Ramgarh, Jharkhand..														
Sampling Period	18/05/2022- 19/05/2022				Mode of sample collection				By YBAEEL Team						
Sampling Protocol	IS 9989:1981 (RA 2020)														
Meteorological Cond. of Field	W.C.- Partly Cloudy/Drizzling				RH % - 48				Temp. - 30°C						
Sample receipt Date	19/05/2022		Analysis Started on		19/05/2022		Analysis completed on		21/05/2022						

*****Test Results*****

Sl	Locations	Parameters	Units	MU %	Day Time (6.00 a.m. to 10.00 p.m.)	Night Time (10.00 p.m. to 6.00 a.m.)	Limits
1.	Near Main Gate	Leq	dB (A)	3.32	63.5	46.4	Day - 75 Night - 70
2.	Near Pump House	Leq	dB (A)	3.32	58.1	43.3	
3.	West Side	Leq	dB (A)	3.32	57.3	42.8	

*****End of Report*****

<ul style="list-style-type: none"> Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority. dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale(A) which is relatable to human hearing. 	Area		Unit	Day Time	Night time
	A	Industrial Area	dB (A)	75.0	70.0
	B	Commercial Area	dB (A)	65.0	55.0
	C	Residential Area	dB (A)	55.0	45.0
	D	Silence Zone	dB (A)	50.0	40.0

Limit is specified as	Noise pollution (Regulation & Control) Rules, 2000.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Samples comply with prescribed limit.

Sample Drawn By - Angad Munda
 Tested By - Amit Kumar Sinha (Lab Analyst)

Only CONCERN for
 Jharkhand State Pollution Control Board
 Application No. 13130692
 Allotted Date 04.05.2022
 Submission Date 23.05.2022

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
---	---

Authorized Signatory
 Atmospheric Pollution
 Yugantar Bharati Analytical &
 Environmental Engineering Laboratory

Technical Manager
 Yugantar Bharati Analytical &
 Environmental Engineering Laboratory

Branch Office :- Jamshedpur | Dhanbad | Hazaribag | Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
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YUGANTAR BHARATI

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 Jharkhand State Pollution Control Board (JSPCB)
 Certified by :- ISO 9001:2015 & ISO 45001:2018



TC-4032

Test Certificate

ULR (Unique Lab Report) No.	T C 4 0 3 2 2 2 0 0 0 0 0 8 4 5 F																
Discipline	Chemical	Group	Atmospheric Pollution					Sample Description					Stationary Source Emission				
Report Release Date	23 rd May, 2022					Report ID					YBAEEL-220505-114227-S1						
W. Order/ JSPCB App. No.	13130692					Work Order Date					04.05.2022						
Type of Industry(if any)	Sponge Iron Unit					Job code/ Ref. no.					YBAEEL/WA/LIA/May-22/28						
Report issue to	M/s Aloke Steels Industries Private Limited Vill - Budhakhap, PO - Digwar, Ramgarh, Jharkhand.																
Sampling Period	18/05/2022					Mode of sample collection					By YBAEEL Team						
Sampling Protocol	IS: 11255 & CPCB Guideline (Lats/80/2013-14)																
Meteorological Cond. of Field	W.C.- Clear					RH % - 48					Temp.-32°C						
Sample receipt Date	19/05/2022					Analysis Started on					19/05/2022						
						Analysis completed on					21/05/2022						

General Information

As observed while sampling		As reported by customer	
Location	Port Hole	Type of fuel Used	Coal
Platform	Permanent	Quantity of Fuel Used	3.5 TPH/Each Kiln
Stack Description (Shape & Material)	Circular/Metal	Total production Capacity	100 TPD/Each Kiln
Sampling port	Available	Height of Stack from ground level	55.0 m
Stack Identification	Stack - 01 (Kiln 1 & 2)	Inner Diameter of Stack	1.8 m
Height of port hole from Ground level	27.0 m	Pollution Controlling Device (if any)	ESP
Running Oven during sampling (if any)	N/A	Total No. of Oven (if any)	N/A

Parameters	Test Method	Units	Results
Stack gas Temperature	IS 11255 (Part 3)2008	k	453.0
Stack gas Velocity	IS 11255 (Part 3)2008	m/s	21.0
Volumetric Flow Rate	IS 11255 (Part 3)2008	Nm ³ /hr	122158.9

*****Test Results*****

Sl. No	Parameters	Test Method	Units	MU %	Results	Limits
1.	Particulate Matter (PM)	IS 11255 (Part 1)1985:2019	mg/Nm ³	2.12	86.3	100
2.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)1985:2019	mg/Nm ³	3.06	192.7	
3.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	mg/Nm ³	2.70	68.8	
4.	Carbon Monoxide (CO)	IS 13270:1992, RA 2009	%		BDL (MDL 0.2)	

Emission Rate

Sl. No	Parameters	Test Method	Units	Results	Limits
1.	Particulate Matter (PM)	IS 11255 (Part 1)1985:2019	Kg/hr	10.54	-
2.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)1985:2019	Kg/hr	23.7	-
3.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	Kg/hr	8.4	-

*****End of Report*****

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limit.

Only CONCERN for

Sample Drawn By - Angad Munda
 Tested By - Amit Kumar Sinha (Lab Analyst)

Jharkhand State Pollution Control Board
 Application No. 13130692
 Allotted Date 04.05.2022
 Submission Date 23.05.2022

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
---	---

Authorized Signatory
 Atmospheric Pollution
 Yugantar Bharati Analytical &
 Environmental Engineering Laboratory

Technical Manager
 Yugantar Bharati Analytical &
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Branch Office :- Jamshedpur | Dhanbad | Hazaribag | Pakur

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 Jharkhand State Pollution Control Board (JSPCB)
 Certified by: - ISO 9001:2015 & ISO 45001:2018

TC-4032

Test Certificate

ULR (Unique Lab Report) No.	T	C	4	0	3	2	2	2	0	0	0	0	0	8	5	5	F
Discipline	Chemical	Group	Atmospheric Pollution			Sample Description			Stationary Source Emission								
Report Release Date	24 th May, 2022					Report ID			YBAEEL-220505-114227-S2								
W. Order/ JSPCB App. No.	13130692					Work Order Date			04.05.2022								
Type of Industry (if any)	Sponge Iron Unit					Job code/ Ref. no.			YBAEEL/WA/L/A/May-22/28								
Report issue to	M/s Aloke Steels Industries Private Limited Vill - Budhakhap, PO - Digwar, Ramgarh, Jharkhand.																
Sampling Period	19/05/2022					Mode of sample collection			By YBAEEL Team								
Sampling Protocol	IS: 11255 & CPCB Guideline (Lats/80/2013-14)																
Meteorological Cond. of Field	W.C.- Partly Cloudy					RH % - 56			Temp.-28°C								
Sample receipt Date	19/05/2022			Analysis Started on			19/05/2022			Analysis completed on			21/05/2022				

General Information

As observed while sampling		As reported by customer	
Location	Port Hole	Type of fuel Used	Coal
Platform	Permanent	Quantity of Fuel Used	3.5 TPH/Each Kiln
Stack Description (Shape & Material)	Circular/Metal	Total production Capacity	100 TPD/Each Kiln
Sampling port	Available	Height of Stack from ground level	55.0 m
Stack Identification	Stack - 02 (Kiln 3 & 4)	Inner Diameter of Stack	1.8 m
Height of port hole from Ground level	27.0 m	Pollution Controlling Device (if any)	ESP
Running Oven during sampling (if any)	N/A	Total No. of Oven (if any)	N/A

Parameters	Test Method	Units	Results
Stack gas Temperature	IS 11255 (Part 3)2008	k	458.0
Stack gas Velocity	IS 11255 (Part 3)2008	m/s	21.5
Volumetric Flow Rate	IS 11255 (Part 3)2008	Nm ³ /hr	123529.5

*****Test Results*****

Sl. No	Parameters	Test Method	Units	MU %	Results	Limits
1.	Particulate Matter (PM)	IS 11255 (Part 1)1985:2019	mg/Nm ³	2.12	89.2	100
2.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)1985:2019	mg/Nm ³	3.06	200.4	
3.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	mg/Nm ³	2.70	77.9	
4.	Carbon Monoxide (CO)	IS 13270:1992, RA 2009	%	-	BDL (MDL 0.2)	

Emission Rate

1.	Particulate Matter (PM)	IS 11255 (Part 1)1985:2019	Kg/hr	11.02	-
2.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)1985:2019	Kg/hr	24.76	-
3.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	Kg/hr	9.63	-

*****End of Report*****

Limit is specified as	Environmental (Protection) Rule - 1986.
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limit.

Only CONCERN for

Sample Drawn By - Angad Munda
 Tested By - Amit Kumar Sinha (Lab Analyst)

Jharkhand State Pollution Control Board
 Application No. ...13130692
 Allotted Date ...04.05.2022
 Submission Date...24.05.2022

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
---	---

Authorized Signatory
 Atmospheric Pollution
 Yugantar Bharati Analytical &
 Environmental Engineering Laboratory

Technical Manager
 Yugantar Bharati Analytical &
 Environmental Engineering Laboratory

Branch Office :- Jamshedpur | Dhanbad | Hazaribag | Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
 Ph : 09835-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



Aloke Steels Industries Private Limited

REGD OFFICE : OPP. ASHOK CINEMA,
RANCHI ROAD, MARAR - 829 117
DIST.- RAMGARH (JHARKHAND):
CIN : U27103JH2004PTC010725
Email : asipl.ramgarh@gmail.com

WORKS :
Vill : Budhakhap
Post : Karma -829137
Dist.-Ramgarh, (Jharkhand)

Ref. No.....
ASIPL/670/2019-20

Date.....
Date:-20/12/2019

To
The Member Secretary,
Jharkhand State Pollution Control Board,
T.A. Division Building (Ground Floor),
H.E.C., Dhurwa, Ranchi - 834004
Jharkhand

Sub: Regarding installation, commissioning and data transmission to Jharkhand State Pollution Control Board URL server of Online Continuous Ambient Air Quality Monitoring Station (CAAQMS) for PM 10 parameter.

Ref: Your letter no B-19, Dated 28/02/2019.

Respected Sir,

Kindly refer to above, we would like to inform your good self that online Continuous Ambient Air Quality Monitoring Station for PM 10 parameter are installed by M/s Environment SA India Pvt. Ltd., Navi Mumbai and it is connected online with Jharkhand State Pollution Control Board URL sever on 19/12/2019.

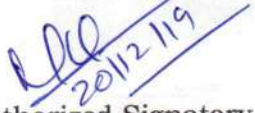
The location co-ordinate of CAAQMS for PM 10 parameter is given below:-

Sr. No.	CAAQMS location	CAAQMS location Co-ordinate
1	Near temple area	Lat - 23°39'34 (N) Long - 85°32'46 (E)

This is for your information.

Thanking you.

Yours faithfully,
For **Aloke Steels Industries Pvt. Ltd.**


Authorized Signatory

Cc to: - Regional Officer, Regional Office, State Pollution Control Board, Hazaribagh
(Jharkhand)

Encl.:- 1) PM 10 analyser photograph.



Alok Steels Industries Pvt. Ltd.

REGD. OFFICE
A-1, WIND ROAD, MARRA - 832 117
DIST. - HAZARIBAGH (JHARKHAND)
INDIA
TEL: 06562530175
E-MAIL: aoksteel@gmail.com

APR 2019-20

The Secretary,
State Pollution Control Board,
Ground Floor,
H. O. Building, Ranchi - 834004
Jharkhand

Quality Monitoring Station (QAQMS) for PM 10 parameter.
State Pollution Control Board Use server of QAQMS
commissioning and data transfer to the Board.

Ref: Your letter no B-19, Dated 28/02/2019.

Respected Sir,

We would like to inform you that we have received your letter dated 28/02/2019 regarding the quality monitoring station (QAQMS) for PM 10 parameter.



Alok Steels Industries Pvt. Ltd.

[Handwritten signature]

Regional Inspector

State Pollution Control Board, Ranchi

19/04/2019

Aloke Steels Industries Pvt Ltd

PM 10 Analyser



Fig. 1 - PM 10 analyser photograph

Aloke Steels Industries Pvt. Ltd.**Village- Bhudhakhap, Post – Karma, Distt – Ramgarh, Jharkhand - 829137****Stack emission Report (PM All values in mg/Nm³)**

Sl. No.	Month	Stack 1		Stack 2	
		PM		PM	
		Online data	Manual monitoring	Online data	Manual monitoring
1	October, 2021	63	88	64	84
2	November, 2021	66	85	69	88
3	December, 2021	72	89	74	85
4	January, 2022	80	93	79	90
5	February, 2022	72	83	74	79
6	March, 2022	69	84	73	83

Ambient Air Quality Monitoring

Location	Parameters	Unit	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
Nr. Main Gate	PM 10	µg/m ³	88	93	88	91	89	93
	PM 2.5		55	53	54	52	50	55
Nr. OHC	PM 10		92	89	91	88	94	78
	PM 2.5		54	53	51	54	56	53
Nr. North-west boundary wall	PM 10		91	89	91	92	90	88
	PM 2.5		52	55	57	55	57	54

Online Ambient Air Quality Monitoring Data (PM10)

Location	Unit	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
Nr. Temple	µg/m ³	69	70	72	72	73	71



YUGANTAR BHARATI

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 Certified by: - ISO 9001:2015 & ISO 45001:2018

TC-4032

Test Certificate

URL (Unique Lab Report) No.		T C 4 0 3 2 2 1 1 0 0 0 0 0 6 1 F													
Discipline	Chemical	Group	Water		Sample Description	Ground Water									
Report Release Date	11 th December 2021			Report ID	YBAEEL-211204-173716-GW01										
W. Order/ JSPCB App. No.	ASIPL/66/2021-22			Work Order Date	02.12.2021										
Type of Industry (if any)	Sponge Iron Unit			Job code/ Ref. no.	YBAEEL/WA/LC/Dec-21/04										
Report Issue to	M/s Aloke Steels Industries Pvt. Ltd. Ranchi Road, Marar - 829117, Dist. - Ramgarh, Jharkhand.														
Sample Received Date	04/12/2021			Mode of sample collection	By Customer										
Sampling Protocol	N/A			Sample Code	211204-GW-X02										
Sampling Location	Bore well			Sampling Source	Ground Water										
Sample pkg. Condition	Sealed Pack in PP Bottle			Sample Quantity	3000 ml										
Meteorological Cond. of Field	W.C.- N/A			RH % - N/A	Temp. - N/A										
Sample receipt Date	04/12/2021	Analysis Started on	04/12/2021	Analysis completed on	11/12/2021										

*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	1.77	8.25	6.5-8.5
2.	Colour	IS 3025 (P-04):1983	Hazen	--	5	5-15
3.	Conductivity	IS 3025 (P-14):2013	µs/cm	1.90	520.0	--
4.	Turbidity	IS 3025 (P-10):2002	NTU	3.63	1.0	1-5
5.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	3.68	138.0	200-600
6.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	1.35	182.0	200-600
7.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	282.0	500-2000
8.	Chlorine Residual	IS 3025 (P-26):2003	mg/l	30.64	BDL (MDL 0.07)	0.2-1
9.	Chloride (as Cl ⁻)	IS 3025 (P-32):2003	mg/l	3.41	2.49	250-1000
10.	Fluoride (as F ⁻)	APHA 4500 F-C 23 rd edition 2017	mg/l	12.22	1.4	1.0-1.5
11.	Nitrate (as NO ₃ ⁻)	APHA 4500 NO ₃ ⁻ (B) 23 rd edition 2017	mg/l	11.33	2.72	45-No relaxation
12.	Calcium (as Ca ²⁺)	IS 3025 (P-40): 2003	mg/l	4.19	38.4	75-200
13.	Magnesium (as Mg ²⁺)	APHA 3500 Mg B : 2017	mg/l	1.90	20.89	30-100
14.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24):2003	mg/l	5.42	6.80	200-400

*****End of Report*****

Limit is specified as #	IS 10500:2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample doesn't comply with the acceptable limit of IS 10500:2012, but in the absence of alternative source sample comply with the permissible limit of IS 10500:2012

Tested by Shivani Kumari Singh / Akash Lab Analyst	Verified by Brij Nandan Kumar Section In-Charge	Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory Pakur Issued by Umesh Das Technical Manager



Branch Office : - Jamshedpur Dhanbad Environmental Engineering Laboratory Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
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Jharkhand State Pollution Control Board (JSPCB)
Certified by: - ISO 9001:2015 & ISO 45001:2018

TC-4032

Test Certificate

URL (Unique Lab Report) No.		T C 4 0 3 2 2 1 5 0 0 0 0 3 3 F													
Discipline	Chemical	Group	Water		Sample Description	Residue in Water									
Report Release Date	11 th December 2021		Report ID		YBAEEL-211204-173716-GW01										
W. Order/ JSPCB App. No.	ASIPL/66/2021-22		Work Order Date		02.12.2021										
Type of Industry (if any)	Sponge Iron Unit		Job code/ Ref. no.		YBAEEL/WA/L/R/Dec-21/03										
Report Issue to	M/s Aloke Steels Industries Pvt. Ltd. Ranchi Road, Marar - 829117, Dist. - Ramgarh, Jharkhand.														
Sample Received Date	04/12/2021		Mode of sample collection		By Customer										
Sampling Protocol	N/A		Sample Code		211204-GW-X02										
Sampling Location	Bore well		Sampling Source		Ground Water										
Sample pkg. Condition	Sealed Pack in PP Bottle		Sample Quantity		3000 ml										
Meteorological Cond. of Field	W.C.- N/A		RH % - N/A		Temp. - N/A										
Sample receipt Date	04/12/2021	Analysis Started on	06/12/2021	Analysis completed on	11/12/2021										

*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Arsenic (as As)	APHA 3114 B 23 rd edition 2017	mg/l	10.34	BDL (MDL 0.003)	0.01
2.	Copper (as Cu)	APHA 3111 B 23 rd edition 2017	mg/l	11.11	BDL (MDL 0.01)	0.05
3.	Iron (as Fe)	APHA 3111 B 23 rd edition 2017	mg/l	2.34	0.19	0.3
4.	Lead (as Pb)	APHA 3111 B 23 rd edition 2017	mg/l	10.64	BDL (MDL 0.02)	0.01
5.	Zinc (as Zn)	APHA 3111 B 23 rd edition 2017	mg/l	15.35	0.03	5.0
6.	Cadmium (as Cd)	APHA 3111 B 23 rd edition 2017	mg/l	5.0	BDL (MDL 0.02)	0.003
7.	Mercury (as Hg)	APHA 3112 B 23 rd edition 2017	mg/l	8.47	BDL (MDL 0.003)	0.001
8.	Chromium (as Cr)	APHA 3111 B 23 rd edition 2017	mg/l	12.53	BDL (MDL 0.02)	0.05
9.	Nickel (as Ni)	APHA 3111 B 23 rd edition 2017	mg/l	13.72	BDL (MDL 0.02)	0.02

*****End of Report*****

Limit is specified as	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample Comply with prescribed limits

Tested by Shivani Kumari Singh Lab Analyst	Verified by Brij Nandan Kumar Section In-Charge	Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory Pakur Issued by Umesh Das Technical Manager



Branch Office : - Jamshedpur Dhanbad Hazaribag Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand

Ph : 09835-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



ISO 9001:2015
ISO 45001:2018



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



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Certified by: - An ISO 9001:2015 & ISO 45001:2018

Test Certificate

Discipline	Chemical	Group	Water	Sample Description	Ground Water
Report Release Date	11 th December 2021		Report ID	YBAEEL-211204-173716-GW01	
W. Order/ JSPCB App. No.	ASIPL/66/2021-22		Work Order Date	02.12.2021	
Type of Industry (if any)	Sponge Iron Unit		Job code/ Ref. no.	YBAEEL/WA/L/C/Dec-21/04 YBAEEL/WA/L/R/Dec-21/03	
Report Issue to	M/s Aloke Steels Industries Pvt. Ltd. Ranchi Road, Marar - 829117, Dist. - Ramgarh, Jharkhand.				
Sample Received Date	04/12/2021		Mode of sample collection	By Customer	
Sampling Protocol	N/A		Sample Code	211204-GW-X02	
Sampling Location	Bore well		Sampling Source	Ground Water	
Sample pkg. Condition	Sealed Pack in PP Bottle		Sample Quantity	3000 ml	
Meteorological Cond. of Field	W.C.- N/A		RH % - N/A	Temp. - N/A	
Sample receipt Date	04/12/2021	Analysis Started on	04/12/2021	Analysis completed on	11/12/2021

*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Odour	IS 3025 (P-05):2002	--	--	Agree.	Agreeable
2.	Taste	IS 3025 (P-07):2002	--	--	Agree.	Agreeable
3.	Aluminium (as Al)	IS 3025 (P-55):2003	mg/l	--	BDL (MDL 0.002)	0.03-0.2
4.	Cyanide(as CN ⁻)	IS 3025 (P-27)	mg/l	--	BDL (MDL-1)	0.05- No relaxation
5.	Phosphate (asPO ₄ ³⁻)	IS 3025 (P-31):2003	mg/l	--	0.028	--

*****End of Report*****

Limit is specified as	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample Comply with prescribed limits

Tested by Shivani Kumari Singh Lab Analyst	Verified by Brij Nandan Kumar Section in-Charge	Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory Issued by Umesh Das Technical Manager

Branch Office :- Jamshedpur Dhanbad Hazratbag Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand

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ISO 45001:2018



ISO 9001:2015



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



Accredited by: - NABL accredited testing laboratory vide certificate Number TC-4032
 Jharkhand State Pollution Control Board (JSPCB)
 Certified by: - ISO 9001:2015 & ISO 45001:2018

TC-4032

Test Certificate

URL (Unique Lab Report) No.		T C 4 0 3 2 2 1 4 0 0 0 0 0 7 1 F													
Discipline	Biological	Group	Water				Sample Description				Ground Water				
Report Release Date	11 th December 2021				Report ID				YBAEEL-211204-173716-GW01						
W. Order/ JSPCB App. No.	ASIP/L/66/2021-22				Work Order Date				02.12.2021						
Type of Industry (if any)	Sponge Iron Unit				Job code/ Ref. no.				YBAEEL/WA/LM/Dec-21/04						
Report Issue to	M/s Aloke Steels Industries Pvt. Ltd. Ranchi Road, Marar - 829117, Dist. - Ramgarh, Jharkhand.														
Sample Received Date	04/12/2021				Mode of sample collection				By Customer						
Sampling Protocol	N/A				Sample Code				211204-GW-X02						
Sampling Location	Bore well				Sampling Source				Ground Water						
Sample pkg. Condition	Sealed Pack in PP Bottle				Sample Quantity				250 ml						
Meteorological Cond. of Field	W.C. - N/A				RH % - N/A				Temp. - N/A						
Sample receipt Date	04/12/2021		Analysis Started on		06/12/2021		Analysis completed on		08/12/2021						

*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	Total coliform	APHA 9221B 23 rd Edition 2017	MPN/100 ml	BDL (MDL 1.1)	Shall not to be Detectable in any 100 ml sample
2.	Fecal coliform	APHA 9221E 23 rd Edition 2017	MPN/100 ml	BDL (MDL 1.1)	

*****End of Report*****

Limit is specified as	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit, <1.8 / < 1.1 MPN/100 ml denotes that the presence probability of bacteria is absent in the tested sample.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample Comply with prescribed limits

Tested by Madhuri Sinha Lab Analyst	Verified by Mukesh Kumar Section In-Charge	Authorized Signatory Nugant Bharati Analytical & Environmental Engineering Laboratory	Issued by Umesh Das Technical Manager
---	--	--	---



Branch Office : - Jamshedpur Dhanbad Hazaribag Pakur

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ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



Accredited by: - Jharkhand State Pollution Control Board (JSPCB)

Certified by: - An ISO 9001:2015 & ISO 45001:2018

Test Certificate

Report Release Date	11 th December 2021	Report ID	YBAEEL-211204-173716-GW01
W. Order/ JSPCB App. No.	ASIPL/66/2021-22	Work Order Date	02.12.2021
Type of Industry (if any)	Sponge Iron Unit	Job code/ Ref. no.	YBAEEL/WA/L/C/Dec-21/04 YBAEEL/WA/L/R/Dec-21/03
Report Issue to	M/s Aloke Steels Industries Pvt. Ltd. Ranchi Road, Marar - 829117, Dist. - Ramgarh, Jharkhand.		
Sampling Date	06/12/2021	Mode of sample collection	By YBAEEL Team
Meteorological Cond. of Field	W.C.- Clear	RH % - 63	Temp.-27°C

*****Test Results*****

Sl	Location	Total Depth from the measuring point in meter	Static water level from measuring point in meter	Measuring point i.e. MP distance above ground level in meter	Water level below ground level
1.	Near Occupational Health Center	30	5.5	0.91	4.59

*****End of Report*****

Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility
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	The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise
	The liability of the laboratory is limited to the invoiced amount.
	All disputes are subjected to the Ranchi Jurisdiction.

		
Verified by Brij Nandan Kumar Section In-Charge		Issued by Umesh Das Technical Manager

Branch Office :- Jamshedpur Dhanbad Hazaribag Pakur

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ISO 45001:2018



ISO 9001:2015



YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - NABL accredited testing laboratory vide certificate Number TC-4032

Certified by: - Jharkhand State Pollution Control Board (JSPCB)

ISO 9001:2015 & ISO 45001:2018



TC-4032

Test Certificate

ULR (Unique Lab Report) No.	T C 4 0 3 2 2 2 0 0 0 0 7 1 6 F														
Discipline	Chemical	Group	Water	Sample Description	Ground Water										
Report Release Date	03 rd May, 2022			Report ID	YBAEEL-220423-182031 -GW01										
W. Order/ JSPCB App. No.	ASIPL/008/2022-23			Work Order Date	22.04.2022										
Type of Industry (if any)	Sponge Iron Unit			Job code/ Ref. no.	YBAEEL/WA/LI/C/Apr-22/09										
Report Issue to	M/s Alope Steels Industries Private Limited Budhakhap, Post - Karma - 829137, Dist. - Ramgarh, Jharkhand.														
Sample Received Date	28/04/2022		Mode of sample collection	By Customer											
Sampling Protocol	N/A		Sample Code	2204028-GW-B01											
Sampling Location	Borewell		Sampling Source	Ground Water											
Sample pkg. Condition	Sealed Pack in PP Bottle		Sample Quantity	3000 ml											
Meteorological Cond. of Field	W.C.- N/A		RH % - N/A	Temp. - N/A											
Sample receipt Date	28/04/2022	Analysis Started on	28/04/2022	Analysis completed on	03/05/2022										

*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	1.77	7.41	6.5-8.5
2.	Colour	IS 3025 (P-04):1983	Hazen	-	5	5-15
3.	Conductivity	IS 3025 (P-14):2013	µs/cm	1.90	432.0	-
4.	Turbidity	IS 3025 (P-10):2002	NTU	3.63	1.0	1-5
5.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	3.68	196.0	200-600
6.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	1.35	180.0	200-600
7.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	222.0	500-2000
8.	Chlorine Residual	IS 3025 (P-26):2003	mg/l	30.64	BDL (MDL 0.07)	0.2-1
9.	Chloride (as Cl ⁻)	IS 3025 (P-32):2003	mg/l	3.41	6.5	250-1000
10.	Fluoride (as F ⁻)	APHA 4500 F-C 23 rd edition 2017	mg/l	12.22	1.3	1.0-1.5
11.	Nitrate (as NO ₃ ⁻)	APHA 4500 NO ₃ ⁻ (B) 23 rd edition 2017	mg/l	11.33	BDL (MDL 0.01)	45-No relaxation
12.	Calcium (as Ca ²⁺)	IS 3025 (P-40): 2003	mg/l	4.19	55.2	75-200
13.	Magnesium (as Mg ²⁺)	APHA 3500 Mg B : 2017	mg/l	1.90	10.2	30-100
14.	Sulphate (as SO ₄ ²⁻)	IS 3025 (P-24):2003	mg/l	5.42	15.0	200-400

*****End of Report*****

Limit is specified as	IS 10500: 2021
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Tested By - Shivani Kumari Singh (Lab Analyst)

Verified by	Issued by
Brij Nandan Kumar	Umesh Das
Section In-Charge	Technical Manager

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office : - Jamshedpur Dhanbad Hazaribag Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
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ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - Jharkhand State Pollution Control Board (JSPCB)

Certified by: - An ISO 9001:2015 & ISO 45001:2018

Test Certificate

Discipline	Chemical	Group	Water	Sample Description	Ground Water
Report Release Date	03 rd May, 2022		Report ID	YBAEEL-220423-182031 -GW01	
W. Order/ JSPCB App. No.	ASIPL/008/2022-23		Work Order Date	22.04.2022	
Type of Industry (if any)	Sponge Iron Unit		Job code/ Ref. no.	YBAEEL/WA/L/C/Apr-22/09	
Report Issue to	M/s Alope Steels Industries Private Limited Budhakhap, Post - Karma - 829137, Dist. - Ramgarh, Jharkhand.				
Sample Received Date	28/04/2022		Mode of sample collection	By Customer	
Sampling Protocol	N/A		Sample Code	2204028-GW-B01	
Sampling Location	Borewell		Sampling Source	Ground Water	
Sample pkg. Condition	Sealed Pack in PP Bottle		Sample Quantity	3000 ml	
Meteorological Cond. of Field	W.C.- N/A		RH % - N/A	Temp. - N/A	
Sample receipt Date	28/04/2022	Analysis Started on	28/04/2022	Analysis completed on	03/05/2022

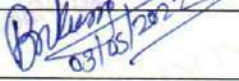

*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Odour	IS 3025 (P-05):2002	--	-	Agree.	Agreeable
2.	Taste	IS 3025 (P-07):2002	--	-	Agree.	Agreeable
3.	Cyanide(as CN ⁻)	IS 3025 (P-27)	mg/l	--	BDL (MDL 1.0)	0.05-No relaxation
4.	Phosphate (as PO ₄ ³⁻)	IS 3025 (P-31):2003	mg/l	-	BDL (MDL 0.003)	--

*****End of Report*****

Limit is specified as	IS 10500: 2021
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Tested By - Shivani Kumari Singh (Lab Analyst)

	
Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office : - Jamshedpur Dhanbad Hazaribag Pakur

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Accredited by: - NABL accredited testing laboratory vide certificate Number TC-4032
 Jharkhand State Pollution Control Board (JSPCB)
 Certified by: - ISO 9001:2015 & ISO 45001:2018

TC-4032

Test Certificate

ULR (Unique Lab Report) No.		T C 4 0 3 2 2 2 0 0 0 0 0 7 1 3 F											
Discipline	Chemical	Group	Water	Sample Description	Residue & Contaminants in Water								
Report Release Date	03 rd May, 2022			Report ID	YBAEEL-220423-182031 -GW01								
W. Order/ JSPCB App. No.	ASIPL/008/2022-23			Work Order Date	22.04.2022								
Type of Industry (If any)	Sponge Iron Unit			Job code/ Ref. no.	YBAEEL/WA/LI/R/Apr-22/04								
Report Issue to	M/s Alope Steels Industries Private Limited Budhakhap, Post - Karma - 829137, Dist. - Ramgarh, Jharkhand.												
Sample Received Date	28/04/2022			Mode of sample collection	By Customer								
Sampling Protocol	N/A			Sample Code	2204028-GW-B01								
Sampling Location	Borewell			Sampling Source	Ground Water								
Sample pkg. Condition	Sealed Pack in PP Bottle			Sample Quantity	3000 ml								
Meteorological Cond. of Field	W.C. - N/A			RH % - N/A	Temp. - N/A								
Sample receipt Date	28/04/2022	Analysis Started on	28/04/2022	Analysis completed on	03/05/2022								

*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Arsenic (as As)	APHA 3114 B 23 rd edition 2017	mg/l	10.34	BDL (MDL 0.003)	0.01-No relaxation
2.	Copper (as Cu)	APHA 3111 B 23 rd edition 2017	mg/l	11.11	BDL (MDL 0.01)	0.05-1.5
3.	Iron (as Fe)	APHA 3111 B 23 rd edition 2017	mg/l	2.34	0.16	1.0-No relaxation
4.	Lead (as Pb)	APHA 3111 B 23 rd edition 2017	mg/l	10.64	BDL (MDL 0.02)	0.01-No relaxation
5.	Zinc (as Zn)	APHA 3111 B 23 rd edition 2017	mg/l	15.35	BDL (MDL 0.1)	5-15
6.	Cadmium (as Cd)	APHA 3111 B 23 rd edition 2017	mg/l	5.0	BDL (MDL 0.02)	0.003-No relaxation
7.	Mercury (as Hg)	APHA 3112 B 23 rd edition 2017	mg/l	8.47	BDL (MDL 0.003)	0.001-No relaxation
8.	Chromium (as Cr)	APHA 3111 B 23 rd edition 2017	mg/l	12.53	BDL (MDL 0.02)	0.05-No relaxation
9.	Nickel (as Ni)	APHA 3111 B 23 rd edition 2017	mg/l	13.72	BDL (MDL 0.02)	0.02-No relaxation

*****End of Report*****

Limit is specified as	IS 10500: 2021
Abbreviation	MDL : Minimum detection limit. BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Tested By - Shivani Kumari Singh (Lab Analyst)

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager

Authorized Signatory
 Chemical Section
 Yugantar Bharati Analytical &
 Environmental Engineering Laboratory

Technical Manager
 Yugantar Bharati Analytical &
 Environmental Engineering Laboratory

Branch Office :- Jamshedpur Dhanbad Hazaribag Pakur

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YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by :- Jharkhand State Pollution Control Board (JSPCB)
Certified by :- An ISO 9001:2015 & ISO 45001:2018

Test Certificate

Discipline	Chemical	Group	Water	Sample Description	Residue & Contaminants in Water
Report Release Date	03 rd May, 2022		Report ID	YBAEEL-220423-182031 -GW01	
W. Order/ JSPCB App. No.	ASIPL/008/2022-23		Work Order Date	22.04.2022	
Type of Industry(if any)	Sponge Iron Unit		Job code/ Ref. no.	YBAEEL/WA/L/R/Apr-22/04	
Report Issue to	M/s Alope Steels Industries Private Limited Budhakhap, Post - Karma - 829137, Dist. - Ramgarh, Jharkhand.				
Sample Received Date	28/04/2022		Mode of sample collection	By Customer	
Sampling Protocol	N/A		Sample Code	2204028-GW-B01	
Sampling Location	Borewell		Sampling Source	Ground Water	
Sample pkg. Condition	Sealed Pack in PP Bottle		Sample Quantity	3000 ml	
Meteorological Cond. of Field	W.C.- N/A		RH % - N/A	Temp. - N/A	
Sample receipt Date	28/04/2022	Analysis Started on	28/04/2022	Analysis completed on	03/05/2022



*****Test Results*****

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Aluminium (as Al)	IS 3025 (P-55):2003	mg/l	--	BDL (MDL 0.02)	0.03-0.2

*****End of Report*****

Limit is specified as	IS 10500: 2021
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Tested By - Shivani Kumari Singh (Lab Analyst)

 08/05/2022	 3/5/22
Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office :- Jamshedpur Dhanbad Hazaribag Pakur

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 Certified by: - ISO 9001:2015 & ISO 45001:2018



Test Certificate

ULR (Unique Lab Report) No.		T C 4 0 3 2 2 2 0 0 0 0 0 7 1 0 F														
Discipline	Biological	Group	Water			Sample Description	Ground Water									
Report Release Date	03 rd May, 2022			Report ID	YBAEEL-220423-182031-GW01											
W. Order/ JSPCB App. No.	AS IPL/008/2022-23			Work Order Date	22.04.2022											
Type of Industry (If any)	Sponge Iron Unit			Job code/ Ref. no.	YBAEEL/WA/L/M/Apr-22/04											
Report issue to	M/s Aloke Steels Industries Private Limited Budhakhap, Post - Karma - 829137, Dist. - Ramgarh, Jharkhand.															
Sample Received Date	28/04/2022			Mode of sample collection	By Customer											
Sampling Protocol	N/A			Sample Code	2204028-GW-B01											
Sampling Location	Bore well			Sampling Source	Ground Water											
Sample pkg. Condition	Sealed Pack in PP Bottle			Sample Quantity	250ml											
Meteorological Cond. of Field	W.C. - N/A			RH % - N/A	Temp. - N/A											
Sample receipt Date	28/04/2022		Analysis Started on	30/04/2022		Analysis completed on	02/05/2022									

*****Test Results*****

Sl	Parameter	Test Method	Units	Results	Limits
1.	Total coliform	APHA 9221B 23 rd Edition 2017	MPN/100 ml	BDL (MDL 1.1)	Shall not to be Detectable in any 100 ml sample
2.	Fecal coliform	APHA 9221E 23 rd Edition 2017	MPN/100 ml	BDL (MDL 1.1)	

*****End of Report*****

Limit is specified as	IS 10500 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit, <1.8 / < 1.1 MPN/100 ml denotes that the presence probability of bacteria is absent in the tested sample.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C)
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limit.

Tested By - Madhuri Sinha (Lab Analyst)

Verified by Mukesh Kumar Section In-Charge	Issued by Umesh Das Technical Manager

Authorized Signatory
Microbiological Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory



Branch Office : - Jamshedpur | Dhanbad | Hazaribag | Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
 Ph : 09835-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in





YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - Jharkhand State Pollution Control Board (JSPCB)

Certified by: - An ISO 9001:2015 & ISO 45001:2018

Test Certificate

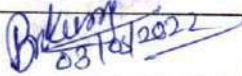

Report Release Date	03 rd May, 2022	Report ID	YBAEEL-220423-182031 -WL01
W. Order/ JSPCB App. No.	ASIPL/008/2022-23	Work Order Date	22.04.2022
Type of Industry (if any)	Sponge Iron Unit	Job code/ Ref. no.	YBAEEL/WA/L/C/Apr-22/09
Report Issue to	M/s Alope Steels Industries Private Limited Budhakhap, Post - Karma - 829137, Dist. - Ramgarh, Jharkhand.		
Sampling Date	30/04/2022	Mode of sample collection	By YBAEEL Team
Meteorological Cond. of Field	W.C.- Clear	RH % - 43	Temp.- 36

*****Test Results*****

Sl	Location	Ground Water Level (mbgl)
1.	Near Occupational Health Center	8.6

*****End of Report*****

Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit, MBGL : Meter below ground level.
Env. Condition of Lab	Laboratory is maintaining, Temperature $27 \pm 2^{\circ}\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing areas as per IS 196:1966 (C)
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	-----

 03/05/2022	 03/05/22
Verified by	Issued by
Brij Nandan Kumar	Umesh Das
Section In-Charge	Technical Manager

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office : - Jamshedpur | Dhanbad | Hazaribag | Pakur

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Ph : 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in

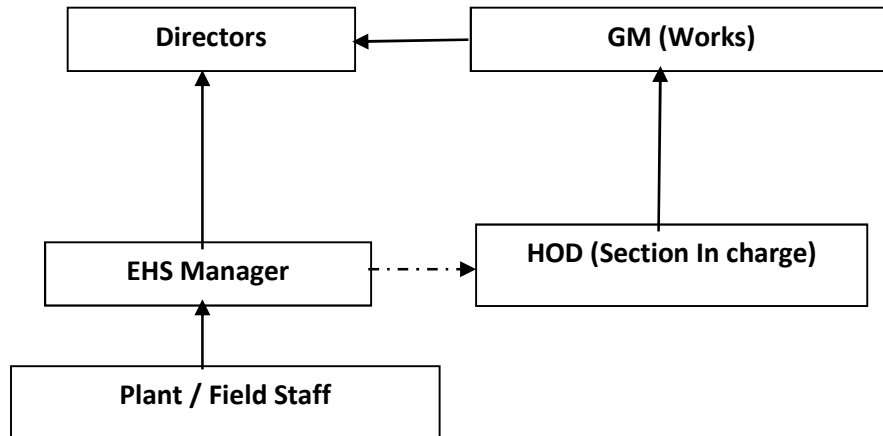


ISO 45001:2018



ISO 9001:2015

Organization of Environment Management Cell



Aloke Steels Industries Private Limited

REGD OFFICE : OPP. ASHOK CINEMA,
RANCHI ROAD, MARAR -829 117
DIST. - RAMGARH (JHARKHAND)
CIN : U27103JH2004PTC010725
Email : asipl.ramgarh@gmail.com

WORKS :
Vill : Budhakhap
Post : Karma -829137
Dist.-Ramgarh,(Jharkhand)

Ref. No.
ASIPL/64/2021-22

Date
15/11/2021

To,
The Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office (Eastern Central Zone),
Bungalow No. A-2, Shyamli colony,
Ranchi- 834002 (Jharkhand)

Sub:-Regarding compliance for the period April, 2021 to September, 2021 to the conditions of Environment Clearance for Expansion of existing 1,20,000 TPA Sponge Iron Plant by installation of new facilities for production of Steel Melting Shop for 1,08,000 TPA of Billets, Rolling mill (90,000 TPA), Iron Ore crushing & Beneficiation plant (2,70,000 TPA), Slag Crushing Plant (16,200 TPA), Captive Power Plant 18 MW (4X2 MW WHRB : 1X10 MW AFBC) and Briquetting unit for Iron ore fines (40,100 TPA).

Ref: -1) Environment Clearance Letter No.F.NO.J-11011/205/2016-IA.II(I) dt-23.07.2018
2) MoEF&CC R.O, Ranchi letter no. 103-517/ROR-2016/4764 dated 26/07/2021.

Dear Sir,
In reference to the above subject matter & reference letters, the point wise Half Yearly compliance status for the period of April, 2021 to September, 2021 & MoEF&CC letter reply are being submitted. The soft copy is also sent through e-mail for your kind perusal please.

Hope you will find this in order and oblige.

Thanking you.
Yours faithfully
For Aloke Steels Industries Pvt. Ltd.

Authorized Signatory

Enclosures: Compliance status Report.

Cc to:-

- 1) The Zonal office In-charge, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700 107 (W. B.).
- 2) The Member Secretary, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor), HEC Campus, P.O. Dhurwa, Ranchi - 834004, Jharkhand.
- 3) Regional Officer, Regional Office, State Pollution Control Board, Hazaribagh,



RL RANGARH CANTT H
Counter No:2,16/11/2021
To:THE REGIONAL OFFICE
PIN:825301, Hazaribagh
From:ALOKE STEEL INDUSTRIES, MARAR
Wt:165gms
Amt:62.00 (Cash)
<Track on www.indiapost.gov.in>
<Dial 18002666868> <Wear Masks, Stay Safe>

RJ249605087IN IVR:8274249605087
RL RANGARH CANTT H.O. K
Counter No:2,16/11/2021
To:THE ZONAL OFFICER, KOLKATA
PIN:700107, Macardana SO
From:ALOKE STEEL INDUSTRIES, MARAR
Wt:160gms
Amt:57.00 (Cash)
<Track on www.indiapost.gov.in>
<Dial 18002666868> <Wear Masks, Stay Safe>





Jharkhand <jam.env2018@gmail.com>

Regarding compliance for the period April, 2021 to September, 2021 to the conditions of Environment Clearance for Expansion of existing 1,20,000 TPA Sponge Iron Plant by installation of new facilities for production of Steel Melting Shop for 1,08,000 TPA of Billets, Rolling mill (90,000 TPA), Iron Ore crushing & Beneficiation plant (2,70,000TPA), Slag Crushing Plant (16,200 TPA), Captive Power Plant 18MW (4X2 MW WHRB:1X10 MW AFBC) and Briquetting unit for Iron ore fines (40,100 TPA).

1 message

Jharkhand <jam.env2018@gmail.com>

Thu, Nov 18, 2021 at 12:13 PM

To: ro.ranchi-mef@gov.in

Cc: zokolkatta.cpcb@nic.in, ranchijspcb@gmail.com, jspcb_hazaribagh@rediffmail.com

Bcc: Jharkhand <jam.env2018@gmail.com>

AS IPL/64/ 2021-22

15/11/2021

To,

The Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office (Eastern Central Zone),
Bungalow No. A-2, Shyamli colony,
Ranchi- 834002 (Jharkhand)

Sub:- Regarding compliance for the period April, 2021 to September, 2021 to the conditions of Environment Clearance for Expansion of existing 1,20,000 TPA Sponge Iron Plant by installation of new facilities for production of Steel Melting Shop for 1,08,000 TPA of Billets, Rolling mill (90,000 TPA), Iron Ore crushing & Beneficiation plant (2,70,000TPA), Slag Crushing Plant (16,200 TPA), Captive Power Plant 18MW (4X2 MW WHRB:1X10 MW AFBC) and Briquetting unit for Iron ore fines (40,100 TPA).

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Dear Sir,

In reference to the above subject matter & reference letters, the point wise Half Yearly compliance status for the period of April, 2021 to September, 2021 & MoEF&CC letter reply are being submitted. The soft copy is also sent through e-mail for your kind perusal please.

Hope you will find this in order and oblige.

Thanking you.

Yours faithfully


For Alope Steels Industries Pvt Ltd.**Authorized Signatory**

Enclosures: Compliance status Report.

Cc to:-

- 1) The Zonal office Incharge, Central Pollution Control Board, Southernrd Conclave, Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700 107 (W. B.).
- 2) The Member Secretary, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor), HEC Campus, P.O. Dhurwa, Ranchi - 834004, Jharkhand.

Regional Officer, Regional Office, State Pollution Control Board, Hazaribagh, Jharkhand.

 **AS IPL - EC Compliance - April 21 to Sep -2021.pdf**
6654K

Aloke Steels Industries Private Limited

REGD OFFICE

: OPP. ASHOK CINEMA,
RANCHI ROAD, MARAR -829 117
DIST. - RAMGARH (JHARKHAND)
: U27103JH2004PTC010725
: *ole*
asipl.ramgarh@gmail.com

CIN
Email

WORKS :

Vill : Budhakhap
Post : Karma -829137
Dist.-Ramgarh,(Jharkhand)

Ref. No.....

Date.....

ASIPL/046/202-22

21/09/2020

To,
The Member Secretary,
Jharkhand State Pollution Control Board,
HEC Campus, TA Division Building,
Durwa, Ranchi - 834 004.
Jharkhand

Sub: Submission of Environmental Statement Report from the period of April 2020 to March 2021 for our Coal based Sponge Iron.

Ref.:- CTO Ref. No.- JSPCB/HO/RNC/CTO-8127181/2020/1516, Dated 27/09/2020.

Dear Sir,

With reference to the above, we are enclosing herewith the Environmental Statement Report for the period from April 2020 to March 2021 of our Sponge Iron.

Please find above in order and do the needful.

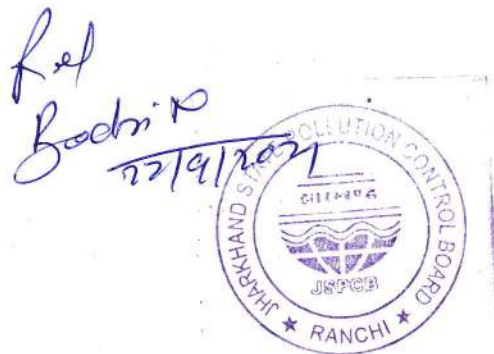
Thanking you,

Yours faithfully,
For ALOKE STEELS INDUSTRIES PVT.LTD.

Manoj Kumar
21/09/2021
Manoj Kumar
Manager (Environment)

Encl: As above.

CC to: - The Regional Officer, Regional Office, State Pollution Control Board, Hazaribagh (Jharkhand)



ENVIRONMENTAL STATEMENT
Aloke Steels Industries Private Limited
Period from: April 2020 to March 2021

FORM – V

PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	Aloke Steels Industries Pvt. Ltd. Occupier name – Kamendra Mishra Village – Budhakhap, P.O. – Digwar, Dist. – Ramgarh, Jharkhand – 829137
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	Sponge Iron – 400 TPD
4.	Year of Establishment	06.05.2004
5.	Date of the last Environmental Statement Submitted	18/09/2020

PART – B

WATER AND RAW MATERIAL CONSUMPTION

(I) Water consumption in m3/day:

Process & Cooling : 228.20 m3/day

Domestic : 7.06 m3/day

Name of Product	Process Water Consumption per Unit of Product Output	
	During Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
Sponge Iron	1.08	0.92



(II) RAW MATERIAL CONSUMPTION:

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output	
		During Current Financial Year (2019-20)	During Current Financial Year (2020-21)
Iron ore	Sponge Iron	1.90	1.58
Iron Ore Pellet		0.26	0.69
Dolomite		0.03	0.03
Coal		0.98	1.66

(III) POWER CONSUMPTION (KWH/MT of Sponge Iron):

During Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
70.65	68.05

(IV) TOTAL PRODUCTION (MT):

During Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
107539.00	90388.00

PART – C

DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT

Pollutants	Quantity of Pollutants Discharged (Mass/Day)	Concentration of Pollutants in Discharge (Mass/Volume)	Percentage of variation from prescribed standard with reasons
(a) Water	<ul style="list-style-type: none">No industrial effluent is generated. In compliance to Zero Liquid Discharge (ZLD), the web camera and flow meter are also installed with online monitoring facilities.The waste water generated from the office toilet and mess has been discharged via septic tank and soaks pits.		
(b) Air	<ul style="list-style-type: none">Online continuous emission monitoring system of PM & SO₂ are installed with web connectivity with CPCB & SPCB.Continuous Ambient Air Quality Monitoring System (CAAQMS) PM 10 parameter is installed.		



PART – D

HAZARDOUS WASTE

(As specified under Hazardous Wastes (Management, Handling & Trans boundary Movement Rule, 2010))

Hazardous Waste	Total Quantity (Ltrs.)	
	During Current Financial Year (2019-20)	During Current Financial Year (2020-21)
a) From Process	Used gear oil and lubricant are stored in drum and used in different Chain Drive within plant campus. Hazardous waste authorization application has been applied before JSPCB vide application no. 8150679 dated 30/05/2020.	Used gear oil and lubricant are stored in drum and used in different Chain Drive within plant campus. Hazardous waste authorization issued vide letter no JSPCB / HO /RNC/HWM-8150679/2021/13 dated 04/03/2021 valid up to 07/08/2025.
(b) From Pollution Control Facilities	Not applicable	Not applicable

PART – E
SOLID WASTE

		Total Quantity (MT)	
		During Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
(a)	From Process		
	1) Dolachar (Coal Chai)	65430.00	81210.00
	2) Other waste	72975.09	11720.20
(b)	Quantity recycled or re- utilized within the unit		
	1) Sold	71859.85	30661.510
	2) Dispose	Nil	Nil



PART – F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both the categories of wastes.

- Used gear oil and lubricant are stored in drum and used in different Chain Drive within plant campus.
- Coal Char (Chhai), the solid waste generated in process are being sold at present, the earlier stock of coal char are also being sold as per demand. ASIPL entered into MOU to supply coal char to M/s Inland power Ltd.

PART – G

Impact Of The Pollution Control Measures On Conservation Of Natural Resources And Consequently On The Cost Of Production

- Unit has installed four numbers of ESP at kiln stack- 1 & 2 to control stack emission.
- Unit has installed ten numbers of bag filters at various material transfer points to control fugitive emissions.
- Unit has installed eighty numbers of water sprinklers at various places within plant premises to control dust emission / fugitive emission from haul roads.
- All conveyor belts are covered with M.S.Plates.
- All raw materials are kept in covered shed.

PART – H

Additional Measures/Investments Proposal For Environment Protection Including Abatement of Pollution

- Plantation are made at plant site besides the boundary. We are also doing support for plantation in nearby village during rainy season every year. New plantations are also made every year in the plant during rainy season.
- EC issued vide letter no F.No.J-11011/205/2016-IA.II(I)dated – 23rd July,2018.
- The application of CTE has been applied before JSPCB vide application no 7886295 dated 21/03/2020.

PART – I

Any other particulates for improving the quality of environment

- Unit has installed two numbers of online Continuous Emission Monitoring System (CEMS) for measurement of particulate matter (PM) & SO₂.
- The web camera & flow meter has installed with online monitoring facilities.
- Continuous Ambient Air Quality Monitoring System (CAAQMS) PM 10 parameter has installed with online monitoring facilities.
- Data of CEMS, Camera & flow meter are continuously updated on CPCB & SPCB server.
- The nine numbers of CCTV cameras has been installed within plant premises to monitor the operationalization status of Air pollution Control Devices.

100