

Ref: FACL/BDK/MOEF/040/2026-27
Dtd: 30.05.2026

To

Member Secretary

State Environment Impact Assessment Authority (SEIAA), Odisha,
Ministry of Environment, Forest & CC, Government of India
Qr. No. - 5RF-2/1, Unit-IX
Bhubaneswar - 751022, (Odisha).
Email: seiaaodisha@gmail.com

Ref : 1. **Environment Clearance letter Ref No. 538 /SEIAA dtd. 21.10.2011**
2. **Name of the Project:** Environment Clearance for expansion of CPP from 45 MW to 100 MW of
M/s. FACOR Power Ltd. at Randia in the District of Bhadrak.

Sub : **Submission of Six Monthly Compliances Report against Environment Clearance letter No. :
Ref No. 538 /SEIAA dtd. 21.10.2011, issued to M/s. FACOR Power Ltd., presently named as
M/s Ferro Alloys Corporation Ltd. (Power Plant) for the period from October 2025 to March
2026.**

Dear Sir,

In compliance to the Stipulated Condition No.29 of the Environment Clearance letter No.538/SEIAA dtd. 21.10.2011 issued by your good office, we are submitting herewith Six-Monthly Compliance Report with respect to M/s Facor Power Limited presently known as M/s Ferro Alloys Corporation Limited (Power Plant) for the period from October 2025 to March 2026.

The monthly Environmental Monitoring data and other required information with respect to compliance of the said Six-Monthly compliance for the period from October 2025 to March 2026 are also enclosed herewith for your kind perusal and records.

Thanking you

Yours faithfully

For Ferro Alloys Corporation Ltd.


G C Mohanty
Factory Manager- Power Plant

Enclosed: As above.

M/s. Ferro Alloys Corporation Ltd. (A subsidiary of Vedanta Ltd.)

Registered Office:

D.P.Nagar, PO : Randia, Dist.: Bhadrak, Odisha, India - 756 135

T +91-6784 240320/240347, Email: facor.mines@vedanta.co.in / facor.ccp@vedanta.co.in

Website: www.facorgroup.in, CIN: U45201OR1955PLC008400.

Six Monthly Environmental Compliance Report of M/S Ferro Alloys Corporation Limited, (Powerplant) for the period from October 2025 up to March 2026

SI No	Stipulated Conditions	Compliance to conditions
i	The applicant (Project proponent) will take necessary measures for prevention, control and mitigation of Air Pollution, Water Pollution, Noise Pollution and Land Pollution including Solid waste management as mentioned by him in Form-1, Final EIA reports and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and conditions.	All necessary measures for prevention and control of air pollution, water pollution, Noise pollution and land pollution have been taken as per prescribed norms and conditions. Online as well as third party (OSPCB authorized agency) monitoring and analysis of all the above parameters are being carried out on a regular basis.
ii	The applicant will take necessary steps for socio economic development of the people of the area on need based assessment for providing employment, education, health care, drinking water and sanitation, road and communication facilities etc. after a detailed primary socio-economic survey.	A professional CSR Team has been engaged for need based assessment and to take necessary steps for socio economic development of the area for providing employment, education, health care, drinking water and sanitation, road and communication facilities etc. after a detailed primary socio -economic survey. However, in the meantime we have taken some steps for socio-economic development such as local employment, development of infrastructure for education, black topping of village road, supply of drinking water for villagers, health care facility etc.
iii	The applicant will comply to the points, concerns and issues raised by the people during public hearing on 24.02.2011 in accordance with the commitments made by him thereon.	The points, concerns and issue raised by the people during public hearing on 24.02.2011 have already been complied.
iv	The applicant will take statutory clearance/ approval / permissions from the concerned authorities in respect of his project as and when required.	All statutory clearance / approval / permission from the concerned authorities in respect of project have been obtained as and when required.

v	For post environmental clearance monitoring, the applicant will submit half-yearly compliance report in respect of the stipulated terms and conditions of Environmental Clearance to the State Environmental Clearance to the State Environmental Impact Assessment Authority (SEIAA), Odisha on 1st June and 1st December of each calendar year.	Half yearly compliance report in respect of the stipulated terms and conditions of Environmental clearance are being submitted to the SEIAA, Odisha on stipulated date.
vi	High efficiency electrostatic precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	ESP installed to maintain SPM emissions below 50mg/ Nm ³ . We have also installed an online monitoring facility with RT-DAS as well as manual monitoring and analysis by an OSPCB approved outsource agency, which shows the particulate emission is within the standard. Report is enclosed as Annexure-1 .
vii	Excess water along with storm water during monsoon should not be discharged into the surrounding low-lying area. The storm water during monsoon will be collected in a pond and after appropriate treatment shall be stored in a reservoir for use in plantation, dust suppression etc.	Excess water along with storm water during monsoon are not being discharged into the surrounding low-lying area. Separate drains are provided to collect storm water during monsoon and Surface Runoff Treatment Facility has been implemented to treat the water and reuse in process and dust suppression.
viii	Under no circumstances the process water shall be discharged to nearby water body. It should be properly treated, stored and 100% recycled in the process.	100% recycling of process water is done through ETP (R.O. Plant). Zero discharge scheme is adopted to ensure no discharge to outside.
ix	The proponent shall obtain permission from Water Resources Department, Govt. of Odisha for drawl of water.	Permission for drawl of water from river Salandi has already obtained from Water Resource Dept., Govt. of Odisha.
x	No ground water shall be extracted for the project work at any stage.	No ground water is being extracted for this project.



xi	The technical specification of CFBC system, lime requirement along with point of injection into the bed, peak temperature of combustion, SO ₂ and NO _x emission potential etc. from the manufacturer to ensure the pollution potential (both qualitative and quantitative) of the proposed project with respect to bed ash, fly ash, effluents, emissions etc. to be submitted to SEIAA before commissioning of the plant.	All technical specifications of CFBC system along with pollution potential had been submitted to the authority before commissioning of the plant. Online monitoring for SO _x , NO _x & SPM has been carried out. Evacuation of Fly ash and Bed ash from Boiler to silo is being done through pneumatic conveying system. Zero discharge has been adopted.
xii	The proponent shall treat the flue gas through Flue Gas De-sulfurisation (FGD), if SO ₂ emission level exceeds the prescribed norm.	SO ₂ emission level is very less than the prescribed standard. Hence treatment of Flue gas is not required. Regular monitoring by third party on monthly basis has also been carried out. Copies of monitoring reports are enclosed herewith as Annexure-1 .
xiii	Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Dust suppression and Dust extraction systems have been provided in Coal Handling Plant transfer areas, Wagon Tippler etc. Sprinkling and spray arrangements have been provided in coal stockpile area and Ash Handling Points. Photocopies are enclosed as Annexure-2
xiv	Fly ash shall be collected in dry form and storage facility (silos) shall be provided 100% fly ash utilization shall be ensured as per fly ash notification of MoEF, Govt. of India. Unutilized fly ash and bottom ash shall be stored in the ash pond separately through high concentration slurry disposal method. Mercury levels along with other heavy metals (Pb,Cr,As etc) should be monitored in the fly ash/ bottom ash, leachates and effluents emanating from the ash pond.	Pneumatic conveying system has been provided for dry ash disposal along with silos. Almost 100% ash utilization is being achieved. There are no effluents emanating from ash pond. However, ground water monitoring near ash pond is being conducted regularly. Test report is attached as Annexure 3 .
xv	Ash Pond shall be lined with HDPE/ LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be	Lining with HDPE sheet was done in Ash Pond. Grass turfing and plantation has done in ash pond dyke to avoid erosion.

	implemented to protect the ash dyke from getting breached.	
xvi	The treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary. Arrangements shall be made so that effluents and storm water do not get mixed.	Effluent from process is being treated through ETP and recycled in process. ETP reject water is being used in dust suppression in ash silos. There is no discharge of wastewater outside the plant boundary. Arrangement has been made so that effluents and storm water do not get mixed. Runoff from plant is being treated through Surface Runoff Treatment System (SRTP).
xvii	A sewage treatment plant shall be provided, and the treated sewage shall be used for raising green belt/ plantation.	10 KLD STP is in operational condition. All the treated water is being used for green belt development. Report of the treated water is enclosed herewith as Annexure- 4.
xviii	The project proponent shall undertake proactive water harvesting measures and water storage for a larger period not less than 30 days storage shall be developed. The rainwater harvesting system shall be put in place before commissioning of the plant. Central Ground water Authority, Board shall be consulted for finalization of appropriate rainwater harvesting technology/ design within a period of three months from the date of this clearance and details shall be furnished. The design of rainwater harvesting shall comprise of rainwater collection from the built up and open area in the plant premises. Action plan and road map for implementation shall be submitted to the SEIAA within six months.	There are two nos of reservoir of 290000 m ³ total capacity for storage of water which are adequate to provide storage of water more than 30days. Two nos. of rooftop rainwater harvesting structures in admin building and control room has been provided to emphasize water harvesting. Photographs are attached as Annexure 5.
xix	Adequate safety measures shall be provided in the plant area to check/ minimize spontaneous fires in coal yard, especially during summer season. Details of these measures to be taken along with	Hydrant firefighting system & sprinkler system have been incorporated to meet such situation. Fire hydrant line super impose with plant layout is enclosed in Annexure-6.

	location plant layout shall be submitted to the SEIAA, Odisha.	Details of these measures and plant layout has been submitted to the SEIAA, Odisha.
xx	Storage facilities for auxiliary liquid fuel such as LDO and HFO/ LSHS shall be made in the plant area where risk is minimum. On site and off site Disaster Management Plans shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be incorporated in the Disaster Management Plan (DMP). Sulfur content in the liquid fuel will not exceed 0.5%.	A separate storage facility has been provided for HSD. Onsite and off-site Disaster Management Plans are available. Mock drills are being conducted as per approved plan. Approval of onsite emergency plan is enclosed for reference in Annexure-7 . Sulphur content in the liquid fuel is not exceeding 0.5%.
xxi	Regular monitoring of ground water in and around the ash pond area shall be carried out records maintained, and half yearly reports shall be furnished to the SEIAA, Odisha.	Regular monitoring of ground water near the ash pond area has been carried out and records are maintained. Monitoring Report has been attached with half yearly reports, sent to the SEIAA, Odisha. Report enclosed herewith as Annexure-3
xxii	A green belt of adequate width and density, preferably with local species along with periphery of the plant & alongside roads etc. shall be raised so as to provide protection against particulates and noise. It must be ensured that at least 33% of the total land area shall be under permanent green belt throughout the year & for this purpose they may engage professionals in this field for creation and accordingly submitted to the SEIAA, Odisha.	Power Plant has achieved 36.43% greenbelt coverage. However, we are continuing greenbelt development in and around the plant vacant areas of different species which can provide protection against particulate matter and noise. Greenbelt Report is attached herewith Annexure 3A .
xxiii	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First aid and sanitation arrangement were provided during construction phase.



xxiv	Noise levels emanating from turbines and air compressors shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipments like earplugs/ earmuffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy areas.	Acoustic enclosure has been provided for turbines and air compressors to restrict the noise level below 75dBA in nearby areas. Site workers are provided with ear plugs. Periodical health check-ups are being carried out and no such abnormality of hearing loss has been found yet. Noise Reports are attached as Annexure -8
xxv	Regular monitoring of ground level concentration of SO ₂ , NO _x , RSPM (PM ₁₀ & PM _{2.5}) etc. shall be carried out in the impact zone and records to be maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB, Odisha.	Regular monitoring of ambient air (SO _x , NO _x , PM ₁₀ & PM _{2.5}) has been carried out and the results are within the prescribed limits. The reports of above parameters are enclosed herewith in Annexure-9
xxvi	Management and disposal of other solid waste and hazardous waste generated shall be done by the project proponent as per the provisions of the relevant statutory rules.	Management and disposal of other solid waste and hazardous waste generated are being done by the project proponent as per the provisions of the relevant statutory rules. Water sprinkling is done to suppress dust and all other solid waste. Hazardous waste is being disposed to authorized vendors.
xxvii	Provision shall be made for housing of construction labourers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	It was provided during construction.

xxvii i	An Environmental cell comprising of at least one expert in environmental science/ engineering, occupational health and social scientist, shall be created at the project site itself and shall be headed by an officer or appropriate superiority and qualification. It shall be ensured that the Head of the cell shall directly report to the head of the organisation and he shall be held responsible for implementation of environmental regulations and social impact improvement/ mitigation measures.	An environment Cell consisting of expert in environmental science / engineering has been created and being followed accordingly. Enclosed in Annexure-10 .
xxix	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to the appropriate authorities (SEIAA, Odisha)	Half yearly compliance report of the stipulated conditions is being submitted to the SEIAA, Odisha.
xxx	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported.	Separate budget has been allocated for implementation of environment protection measures and the same is being utilized for the said purposes. Year wise expenditure is being reported in Environmental Statement (Form V). Enclosed in Annexure-11 .
xxxii	The need of the local people should be appropriately addressed in the CSR activities to be undertaken by the project proponent in the area. An action plan in this regard should be prepared and submitted to SEIAA, Odisha.	CSR activities are continuing by the help of local people. It includes health camp ie, health check-up, blood donation camp, distribution of medicines from village to village, facilitate drinking water to the villagers, construction of college science block, renovation of village roads and plantation of trees on and around the villages, school, college, banks etc.



xxxii	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter informing that the project has been accorded environmental clearance and copies of clearance letter area available with the State Pollution Control Board and SEIAA.	The project proponent was advertised in the local newspaper dated 11.05.2009. Copy enclosed herewith as Annexure-12 .
xxxiii	A copy of the clearance letter shall be sent by the proponent to concern Panchayat, Zila Parishad / Municipal Corporation, urban local body and the local NGO, if any, from whom suggestions/representations, if any received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	A copy of the Environment Clearance letter was sent by the Project Proponent to the concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local body and the Local NGO. A copy of the EC has been displayed on the company website. Screenshot of company website is enclosed in Annexure -13 .
xxxiv	The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986. as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	The Environment statement in Form-V is being submitted to the Board annually and the same has been displayed on the website of the company. Copy enclosed in Annexure -11 .
xxxv	The above mentioned stipulated conditions shall be complied in time bound manner. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract penal action under the provisions of Environment Protection (EP) Act, 1986.	Agree to abide.



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

Test Report No	: KLPL/10/25/ENVN/00708				
Issue Date	: 28-Oct-2025				
Amendment No	: -				
Amendment Date	: -				
Reference	: P.O NO-FPPL/3100006601,DATE-8.11.2022				
Customer Name	: POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.				
Address	: D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA				
Date of receipt	: 24-Oct-2025	Commenced On	: 24-Oct-2025	Completion On	: 27-Oct-2025
Sample Name	: FLUE GAS STACK MONITORING				
Sample Condition	: GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED				
Sample Collected By	: KLPL (MR. SUDHIR KUMAR BARIK)				
Ref.To Sampling Procedure	: KLPL/SOP/AIR-20				
Parameters	Unit	Requirement	Results	Standard Reference	Test Method
Location & Date : ESP BOILER, DATE-23.10.2025					
i Sulphur Dioxide (as SO ₂)	mg/Nm ³	600	142.4	As per CTO	IS 11255(part-2):1985,RA:2014
ii Particulate Matter	mg/Nm ³	50	47.30	As per CTO	IS 11255(Part-1):1985,RA:2014
iii Carbon Monoxide (CO) (01 Hrs.)	%	--	12.0	--	KLPL/SOP/AIR-20:2019
iv Carbon Dioxide (CO ₂)	%	--	9.0	--	KLPL/SOP/AIR-20:2019
v Oxides of Nitrogen	mg/Nm ³	450	173.8	As per CTO	KLPL/SOP/AIR-20:2019
vi Velocity	m/sec	--	9.7	--	IS 11255(Part-1):1985,RA:2019
vii Stack Temperature	Deg kelvin	--	452	--	IS 11255(Part-1):1985,RA:2019
viii Quantity of Gas Flow	Nm ³ / hr	--	297068	--	IS 11255(Part-1):1985,RA:2019
ix Mercury (as Hg)	mg/Nm ³	0.03	0.011	As per CTO	KLPL/SOP/STACK-HM-21:2023





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Test Report No : KLPL/10/25/ENVN/00708

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
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Opinion & Interpretation: -

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Confirmation statement as per decision rule, if applicable : —
Environmental Condition during Testing: Room Temp (°C) : 28-30 Degree C

N.B. : The results relate only to samples tested and test parameters



Analysed By

A. Behera

Mr. Abhirup Behera
Analyst

Verified By

Paramesh Jena

Mr. Paramesh Jena
Technical Manager

Authorised By

Debasis Biswal

Dr. Debasis Biswal
Managing Director

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

TEST REPORT

NABL ULR NO : TC1717825000000011
 Test Report No : 20 | 00251C
 Issue Date : 06-Dec-2025
 Sample Registration No : KLPL/12/25/ENVN/00021
 Amendment No : -
 Amendment Date : -



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 02-Dec-2025 Commenced On 02-Dec-2025 Completion On: 05-Dec-2025

Sample Description : FLUE GAS | STACK MONITORING
 Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
 Sample Identification : STACK
 Batch No , Lot No : - MFG Date - EXP Date: -
 Received Quantity : - Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ESP BOILER, DATE-28.11.2025
 Sampling Procedure : KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER						
i	Carbon Dioxide (CO ₂)	%	--	6.8	--	KLPL/SOP/AIR-20:2019
ii	Carbon Monoxide (CO) (01 Hrs.)	%	--	<0.0001	--	KLPL/SOP/AIR-20:2019
iii	Mercury (as Hg)	mg/Nm ³	0.03	<0.011	As per CTO	KLPL/SOP/STACK-HM-21: 2023
iv	Oxides of Nitrogen	mg/Nm ³	450	194.0	As per CTO	KLPL/SOP/AIR-20: 2019
v	Particulate Matter	mg/Nm ³	50	48.29	As per CTO	IS 11255(Part-1): 1985,RA:2014
vi	Sulphur Dioxide	mg/Nm ³	600	151.8	As per CTO	KLPL/SOP/AIR-20: 2019





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TEST REPORT

Test Report No : 20 NI 00251C
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00021
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 Commenced On 02-Dec-2025 Completion On: 05-Dec-2025

Sample Description : FLUE GAS | STACK MONITORING
Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Sample Identification : STACK
Batch No , Lot No : - MFG Date - EXP Date: -
Received Quantity : - Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ESP BOILER, DATE-28.11.2025
Sampling Procedure : KLPL/OSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER						
i	Quantity of Gas Flow	Nm ³ / hr	--	3,22,526	--	IS 11255(Part-1):1985,RA:2019
ii	Stack Temperature in Deg kelvin	^o K	--	421	--	IS 11255(Part-1):1985,RA:2019
iii	Velocity	m/sec	--	10.0	--	IS 11255(Part-1):1985,RA:2019

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Testing : Room Temp(^oC)- 28-30, Humidity : 30-60%
N.B. : The results relate only to samples tested and test parameters



Analysed By Mr. Abhirup Behera For Kalyani Laboratories Pvt. Ltd.	Verified By Mr. Paramesh Jena For Kalyani Laboratories Pvt. Ltd.	Authorised Signatory Dr. Debasis Biswal For Kalyani Laboratories Pvt. Ltd.
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***** End of Test Report *****



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TEST REPORT



TC-17178

NABL ULR NO : TC1717826000000254
 Test Report No : 73 | 046513B
 Issue Date : 10-Jan-2026
 Sample Registration No : KLPL/12/25/ENVN/00113
 Amendment No : --
 Amendment Date : --

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 31-Dec-2025 Commenced On 31-Dec-2025 Completion On: 06-Jan-2026

Sample Description : STACK EMISSION
 Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
 Sample Identification : STACK
 Batch No , Lot No : NA MFG Date NA EXP Date: NA
 Received Quantity : 1 NO Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ESP BOILER,DATE-30.12.2025
 Sampling Procedure : KLPL/QSP-07 & KLPL/SOP-05



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Carbon Dioxide (CO ₂)	%	--	12	--	KLPL/SOP/AIR-20:2019
ii	Carbon Monoxide (CO) (01 Hrs.)	%	--	<0.001	--	KLPL/SOP/AIR-20:2019
iii	Mercury (as Hg)	mg/Nm ³	0.03	<0.01	As per CTO	KLPL/SOP/STACK-HM-21: 2023
iv	Oxides of Nitrogen	mg/Nm ³	450	183.44	As per CTO	KLPL/SOP/AIR-20: 2019
v	Particulate Matter	mg/Nm ³	50	42.30	As per CTO	IS 11255(Part-1): 1985,RA:2014
vi	Sulphur Dioxide (SO ₂)	mg/Nm ³	600	117.8	As per CTO	KLPL/SOP/AIR-20: 2019





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Test Report No : 73 | 046513B
Sample Registration No : KLPL/12/25/ENVN/00113

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : --
Environmental Condition During Testing: Room Temp(°C) : 24-25, Humidity: 39-40%

N.B. : The results relate only to samples tested and test parameters

Analysed By

A. Behera
Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Verified By

[Signature]
Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

[Signature]
Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



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



KALYANI LABORATORIES PVT. LTD.

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TEST REPORT

Test Report No : 73 NI 046513B
Issue Date : 10-Jan-2026
Sample Registration No : KLPL/12/25/ENVN/00113
Amendment No : --
Amendment Date : --

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 31-Dec-2025 **Commenced On** 31-Dec-2025 **Completion On:** 06-Jan-2026

Sample Description : STACK EMISSION
Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Sample Identification : STACK
Batch No , Lot No : NA **MFG Date** NA **EXP Date:** NA
Received Quantity : 1 NO **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ESP BOILER,DATE-30.12.2025
Sampling Procedure : KLPL/QSP-07 & KLPL/SOP-05

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Quantity of Gas Flow	Nm ³ / hr	--	3,26,824	--	IS 11255(Part-1):1985,RA:2019
ii	Stack Temperature in Deg kelvin	--	--	410	--	IS 11255(Part-1):1985,RA:2019
iii	Velocity	m/sec	--	9.8	--	IS 11255(Part-1):1985,RA:2019

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : --
Environmental Condition During Testing: Room Temp(°C) : 24-25, Humidity: 39-40%

N.B. : The results relate only to samples tested and test parameters

Analysed By

A. Behera
Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Verified By

P. Jena
Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

D. Biswal
Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



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



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TEST REPORT

NABL ULR NO : TC1717826000000463
 Test Report No : 123 | 081822C
 Issue Date : 28-Jan-2026
 Sample Registration No : KLPL/1/26/ENVN/00225
 Amendment No : -
 Amendment Date : -



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 22-Jan-2026 Commenced On 22-Jan-2026 Completion On: 27-Jan-2026

Sample Description : STACK EMISSION
 Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
 Sample Identification : STACK
 Batch No , Lot No : - MFG Date - EXP Date: -
 Received Quantity : 1 NO Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ESP BOILER, DATE-21.01.2026
 Sampling Procedure : KLPL/QSP-07 & KLPL/SOP-05



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Carbon Dioxide (CO ₂)	%	--	11	--	KLPL/SOP/AIR-20:2019
ii	Carbon Monoxide (CO) (01 Hrs.)	%	--	5.8	--	KLPL/SOP/AIR-20:2019
iii	Mercury (as Hg)	mg/Nm ³	0.03	<0.003	As per CTO	KLPL/SOP/STACK-HM-21: 2023
iv	Oxides of Nitrogen	mg/Nm ³	450	175.3	As per CTO	KLPL/SOP/AIR-20: 2019
v	Particulate Matter	mg/Nm ³	50	40.02	As per CTO	IS 11255(Part-1): 1985,RA:2014
vi	Sulphur Dioxide (SO ₂)	mg/Nm ³	600	136.4	As per CTO	KLPL/SOP/AIR-20: 2019





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TEST REPORT

Test Report No : 123 NI 081822C

Issue Date : 28-Jan-2026

Sample Registration No : KLPL/1/26/ENVN/00225

Amendment No : -

Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 22-Jan-2026 Commenced On 22-Jan-2026 Completion On: 27-Jan-2026

Sample Description : STACK EMISSION

Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Sample Identification : STACK

Batch No , Lot No : -

MFG Date -

EXP Date: -

Received Quantity : -

Sample Collection Location, & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK

ESP BOILER, DATE-21.01.2026

Sampling Procedure : KLPL/QSP-07 & KLPL/SOP-05

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER

i	Quantity of Gas Flow	Nm ³ /hr	--	29,779	--	IS 11255(Part-1):1985,RA:2019
ii	Stack Temperature in Deg kelvin	--	--	425	--	IS 11255(Part-1):1985,RA:2019
iii	Velocity	m/sec	--	9.3	--	IS 11255(Part-1):1985,RA:2019

Opinion & Interpretation: AS PER CUSTOMER SPECIFIC STANDARDS

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : -

Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters



Analysed By

A. Behera

Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena

For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal

For Kalyani Laboratories Pvt. Ltd.

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



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TEST REPORT

NABL ULR NO : TC171782600000916
 Test Report No : 239 | 112044F
 Issue Date : 24-Feb-2026
 Sample Registration No : KLPL/2/26/ENVN/00276
 Amendment No : --
 Amendment Date : --



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 16-Feb-2026 Commenced On 16-Feb-2026 Completion On: 20-Feb-2026

Sample Description : STACK EMISSION
 Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
 Sample Identification : STACK
 Batch No., Lot No : NA MFG Date NA EXP Date: NA
 Received Quantity : 1 NO Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ESP BOILER, DATE-14.02.2026
 Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER						
i	Carbon Dioxide (CO ₂)	%	--	12	--	KLPL/SOP/AIR-20-2019
ii	Carbon Monoxide (CO) (01 Hrs.)	%	--	47	--	KLPL/SOP/AIR-20-2019
iii	Mercury (as Hg)	mg/Nm ³	0.03	<0.003	As per CTO	KLPL/SOP/STACK-HM-21-2023
iv	Oxides of Nitrogen	mg/Nm ³	450	166.8	As per CTO	KLPL/SOP/AIR-20-2019
v	Particulate Matter	mg/Nm ³	50	47.88	As per CTO	IS 11255(Part 1): 1985,IA-2014
vi	Sulphur Dioxide (SO ₂)	mg/Nm ³	600	113.7	As per CTO	KLPL/SOP/AIR-20-2019





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TEST REPORT

Test Report No : 239 NI 112044F
Issue Date : 24-Feb-2026
Sample Registration No : KLPL/2/26/ENVN/00276
Amendment No : --
Amendment Date : --

Reference : P.O NO-FPPL/3100006601, DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 16-Feb-2026 Commenced On 16-Feb-2026 Completion On: 20-Feb-2026

Sample Description : STACK EMISSION
Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Sample Identification : STACK
Batch No, Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : 1 NO Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ESP BOILER, DATE: 14.02.2026
Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Quantity of Gas Flow	Nm ³ /hr	--	278508.65	--	IS 11255(Part-1):1985,RA,2019
ii	Stack Temperature in Deg kelvin	--	--	442	--	IS 11255(Part-1):1985,RA,2019
iii	Velocity	m/sec	--	8.89	--	IS 11255(Part-1):1985,RA,2019

Opinion & Interpretation:

Any unusual feature observed during determination : NIL
 Customer information if any : NIL
 Conformity statement as per decision rule, if applicable : --
 Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity : 30-60%
 N.B. : The results relate only to samples tested and test parameters



Analysed By
 A. Behera
 Mr. Abhirup Behera
 For Kalyani Laboratories Pvt. Ltd.

Verified By
 P. Jena
 Mr. Paramesh Jena
 For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory
 Dr. Rekha Nayak
 24/02/2026
 For Kalyani Laboratories Pvt. Ltd.

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



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TEST REPORT

NABL ULR NO : TC1717826000001205
Test Report No : 349 | 17335B8
Issue Date : 02-Apr-2026
Sample Registration No : KLPL/3/26/ENVN/00407
Amendment No : -
Amendment Date : -



TC-17178

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 28-Mar-2026 Commenced On 28-Mar-2026 Completion On: 31-Mar-2026

Sample Description : STACK EMISSION
Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Sample Identification : STACK
Batch No , Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : 1 NO Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ESP BOILER, DATE-27.03.2026
Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Carbon Dioxide (CO2)	%	--	12.9	--	KLPL/SOP/AIR-20:2019
ii	Carbon Monoxide (CO) (01 Hrs.)	%	--	<0.001	--	KLPL/SOP/AIR-20:2019
iii	Mercury (as Hg)	mg/Nm ³	0.03	0.012	As per CTO	KLPL/SOP/STACK-HM-21: 2023
iv	Oxides of Nitrogen	mg/Nm ³	450	144	As per CTO	KLPL/SOP/AIR-20: 2019
v	Particulate Matter	mg/Nm ³	50	42.30	As per CTO	IS 11255(Part-1): 1985,RA:2019
vi	Sulphur Dioxide (SO2)	mg/Nm ³	600	114	As per CTO	IS 11255(Part-2): 1985,RA:2019





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TEST REPORT

Test Report No : 349 NI 17335B8

Issue Date : 02-Apr-2026

Sample Registration No : KLPL/3/26/ENVN/00407

Amendment No : -

Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 28-Mar-2026 Commenced On 28-Mar-2026 Completion On: 31-Mar-2026

Sample Description : STACK EMISSION

Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Sample Identification : STACK

Batch No , Lot No : NA MFG Date NA EXP Date: NA

Received Quantity : 1 NO Sample Collection Location, & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ESP BOILER, DATE-27.03.2026

Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Quantity of Gas Flow	Nm ³ /hr	--	3,50,522	--	IS 11255(Part-1):1985,RA:2019
ii	Stack Temperature in Deg kelvin	--	--	425	--	IS 11255(Part-1):1985,RA:2019
iii	Velocity	m/sec	--	10.8	--	IS 11255(Part-1):1985,RA:2019

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : -

Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters



Analysed By

A. Behera

Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Verified By

P. Jena

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Rekha Nayak

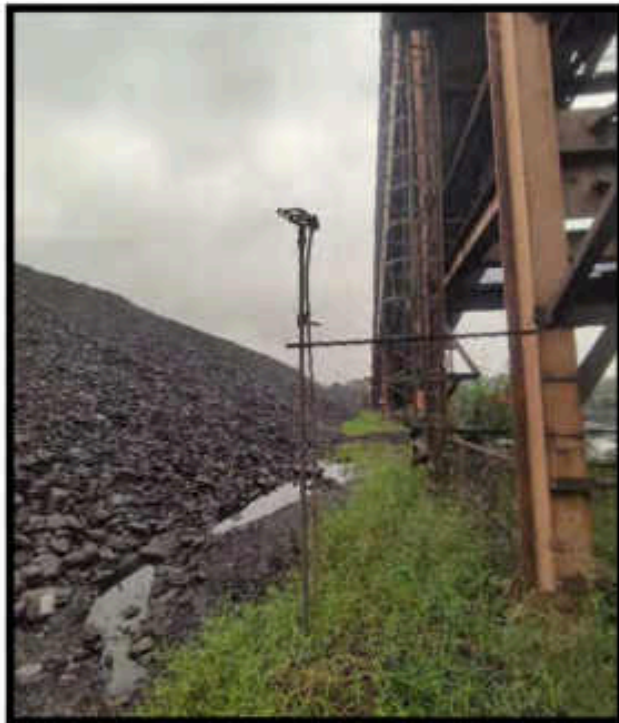
21/04/2026
For Kalyani Laboratories Pvt. Ltd.

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

Dust Suppression Systems



Dedusting Units in Coal Handling Plant



Water Sprinklers in Coal Stock Area



Water Sprinklers in Wagon Tippler



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TEST REPORT

Test Report No : KLPL/10/25/WATER/04237

Issue Date : 16-Oct-2025

Amendment No : -

Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 29-Sep-2025 **Commenced On** : 29-Sep-2025 **Completion On** : 16-Oct-2025

Sample Description : DRINKING WATER (IS 10500:2012)

Type of Container : HDPE & GLASS BOTTLE

Sample Identification : DRINKING WATER

Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA

Received Quantity : 1LTR X 8 NOS & 500ML X 2NOS **Sample Collection Location, & Date** :

Sample Collected By : By KLPL (MR. SUDHIR KUMAR BARIK) **ASH POND TUBE WELL,DATE-28.09.2025**

Sampling Procedure if Any : KLPL/QSP-07

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
i	Sulphate (as SO ₄)	mg/l, Max	200	1.02	IS : 10500 :2012	Cl.4.0 of IS 3025 (Part 24):1986, RA 2019
ii	Total alkalinity (as CaCO ₃),	mg/l, Max	200	46.2	IS : 10500 :2012	IS 3025 (Part 23):1986, RA 2019
iii	Total hardness (as CaCO ₃),	mg/l, Max	200	48	IS : 10500 :2012	IS 3025 (Part 21):2009, RA 2019
iv	Total Coliforms	MPN/100 ml	Shall not be detected in any 100ml sample	<2	IS : 10500 :2012	IS 1622:1981 RA 2009
v	E.coli	MPN/100 ml	Shall not be detected in any 100ml sample	<2	IS : 10500 : 2012	IS 1622:1981, RA 2009
vi	Nitrate as NO ₃	mg/l, Max	45	<0.05	IS : 10500 :2012	Cl.3.0 of IS 3025 (PART 34): 1988, RA 2019
vii	Ammonia (as N)	mg/l, Max	0.5	<0.03	IS : 10500 : 2012	CL 5.4 of IS 3025 (Part 34/Sec 1) : 2023
viii	Calcium (as Ca)	mg/l, Max	75	14.4	IS : 10500 :2012	Cl.5.0 of IS 3025 (Part 40):1991, RA 2019
ix	Chloride (as Cl)	mg/l, Max	250	8.0	IS : 10500 :2012	IS 3025 (Part 32):1988, RA 2019
x	Copper (as Cu)	mg/l, Max	0.05	<0.02	IS : 10500 :2012	Cl.6.0 of IS 3025 (Part 42):1992, RA 2019
xi	Fluoride (as F)	mg/l, Max	1	<0.1	IS : 10500 :2012	Cl.5.0 of IS 3025 (Part 60):2008, RA 2019
xii	Free residual chlorine	mg/l, Min	0.2	<0.05	IS : 10500 :2012	Cl.3.0 of IS 3025 (Part 26):2021





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Test Report No : KLPL/10/25/WATER/04237

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
xiii	Iron (as Fe)	mg/l, Max	1	<0.05	IS : 10500 :2012	Cl.6.0 of IS 3025 (Part 53):2003, RA 2019
xiv	Magnesium (as Mg)	mg/l, Max	30	2.91	IS : 10500 :2012	Cl.6.0 of IS 3025 (Part 46):1994, RA 2019
xv	Manganese (as Mn)	mg/l, Max	0.1	<0.05	IS : 10500 :2012	Cl.5.0 of IS 3025 (Part 59):2006, RA 2017
xvi	Mineral oil	mg/l, Max	0.5	<0.5	IS : 10500 :2012	Cl.5.0 of IS 3025 (Part- 39):2021
xvii	Phenolic compounds (as C6H5OH)	mg/l, Max	0.001	<0.001	IS : 10500 :2012	CL 6 of IS 3025 : Part 43 : Sec 1 : 2022
xviii	Selenium (as Se)	mg/l, Max	0.01	<0.005	IS : 10500 :2012	IS 3025 : Part 2 : 2019 (ISO 11885 : 2007),RA :2023
xix	Zinc (as Zn)	mg/l, Max	5	0.24	IS : 10500 :2012	Cl.6.0 of IS 3025 (Part 49):1994, RA 2019
xx	Total Chromium	mg/l, Max	0.05	<0.01	IS : 10500 :2012	IS 3025 (PART-2) :2019
xxi	Sulphide (as H2S)	mg/l, Max	0.05	<0.01	IS : 10500 : 2012	Cl.3.0 of IS 3025 (Part 29):1986 RA 2019
xxii	Aluminium (as Al)	mg/l,Max	0.03	<0.02	IS : 10500 :2012	Cl.5.0 of IS 3025 (part-55):2003, RA 2019
xxiii	Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	<0.1	IS : 10500 :2012	IS 3025 (Part 68) : 2019 ,RA:2023
xxiv	Boron (as B)	mg/l, Max	0.5	<0.1	IS : 10500 :2012	CL 5 of IS 3025 (Part 57) : 2021
xxv	Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	<0.00005	IS : 10500 :2012	APHA 24th Edition (6440-B):2023
xxvi	Barium (as Ba)	mg/l, Max	0.7	<0.2	IS : 10500 : 2012	Annex F of IS 13428:2005
xxvi	Silver (as Ag)	mg/l, Max	0.1	<0.005	IS : 10500 : 2012	Annex J of IS 13428 : 2005 RA 2009
xxvi	Molybdenum (as Mo)	mg/l, Max	0.07	<1.0	IS : 10500 : 2012	IS 3025 (Part 2): 2002
xxix	Chloramines (Cl2)	mg/l, Max	4.0	<0.1	IS : 10500 : 2012	IS 3025 (Part 26):2009
xxx	Polychlorinated biphenyls(as PCB)	mg/l, Max	0.0005	<0.00005	IS : 10500 : 2012	Annex M of IS 13428 : 2005
xxxi	p p DDE	µg/l, Max	1	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xxxi	p p DDD	µg/l, Max	1	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xxxi	p p DDT	µg/l, Max	1	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994





Kalyani Laboratories

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Test Report No : KLPL/10/25/WATER/04237

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
xxxI	o p DDT	µg/l, Max	1	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xxx	o p DDD	µg/l, Max	1	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xxx	a-HCH	µg/l, Max	0.01	<0.01	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xxx	β -HCH	µg/l, Max	0.04	<0.04	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xxx	γ-HCH	µg/l, Max	0.04	<0.04	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xxxI	Lindane	µg/l, Max	2	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xI	Endosulfan a	µg/l, Max	0.4	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xII	Endosulfan sulphate	µg/l, Max	0.4	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xIII	Monocrotophos	µg/l, Max	1	<0.05	IS : 10500 : 2012	USEPA 8141 A,Rev 01:1994
xIII	Chlorpyrifos	µg/l, Max	30	<0.05	IS : 10500 : 2012	USEPA 8141 A,Rev 01:1994
xIV	Phorate	µg/l, Max	2	<0.05	IS : 10500 : 2012	USEPA 8141 A,Rev 01:1994
xIV	Isoproturon	µg/l, Max	9	<0.05	IS : 10500 : 2012	USEPA 8321,Rev 01,Dec:1996
xVI	Methyl Parathion	µg/l, Max	0.3	<0.05	IS : 10500 : 2012	USEPA 8141 A,Rev 01:1994
xVII	Malathion	µg/l, Max	190	<0.05	IS : 10500 : 2012	USEPA 8141 A,Rev 01:1994
xVII	Endosulfan β	µg/l, Max	0.4	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xLIX	2,4-D	µg/l, Max	30	<0.05	IS : 10500 : 2012	USEPA 515.1,Rev 01:1995
I	Butachlor	µg/l, Max	125	<0.05	IS : 10500 : 2012	USEPA 8141 A,Rev 01:1994
II	Alachlor	µg/l, Max	20	<0.05	IS : 10500 : 2012	USEPA 8141 A,Rev 01:1994
III	Atrazine	µg/l, Max	2	<0.05	IS : 10500 : 2012	USEPA 8141 A,Rev 01:1994
III	Dieldrin	µg/l, Max	0.03	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
IV	Ethion(Residue to be Determined as ethion and its oxygen analogue and expressed as ethion)	µg/l, Max	3	<0.04	IS : 10500 : 2012	USEPA 8141 A,Rev 01:1994





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Test Report No : KLPL/10/25/WATER/04237

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
Iv	Cadmium (as Cd)	mg/l, Max	0.003	<0.001	IS : 10500 :2012	Cl.5.0 of IS 3025 (Part 41):1992, RA 2019
Ivi	Cyanide (as CN)	mg/l, Max	0.05	<0.02	IS : 10500 :2012	CL 4 of IS 3025 (Part 27/Sec 1) : 2021
Ivii	Lead (as Pb)	mg/l, Max	0.01	<0.005	IS : 10500 :2012	Cl.7.0 of IS 3025 (Part 47):1994, RA 2019
Iviii	Mercury (as Hg)	mg/l, Max	0.001	<0.0005	IS : 10500 :2012	IS 3025 : Part 2 : 2019 (ISO 11885 :2007),RA:2023)
Ixi	Total arsenic (as As)	mg/l, Max	0.01	<0.001	IS : 10500 :2012	Cl. 6 of IS 3025 : Part 37 : 2022
Ixii	Nickel (as Ni)	mg/l, Max	0.02	<0.01	IS : 10500 : 2012	Cl 7.0 of IS 3025 (Part 54):2005
Ixiii	Colour	Hazen, Max	5	<1.0	IS : 10500 :2012	Cl.2.0 of IS 3025 (Part 4): 2021
Ixiv	Odour	--	Agreeable	AGREEABLE	IS : 10500 :2012	IS 3025 (Part 5):1983,RA:2012
Ixv	Taste	--	Agreeable	AGREEABLE	IS : 10500 :2012	IS 3025 (Part 8):2023
Ixvi	Turbidity	NTU, Max	1	<0.1	IS : 10500 :2012	IS 3025 (Part 10):1984, RA 2017
Ixvii	Total dissolved solids	mg/l, Max	500	84	IS : 10500 :2012	IS 3025 (Part 16):1984, RA 2017
Ixviii	pH Value	--	6.5-8.5	7.62	IS : 10500 :2012	IS 3025 (Part-11):1983,RA:2012





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Test Report No : KLPL/10/25/WATER/04237

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
i	Bromoform	mg/l	--	<0.1	--	APHA 6232
ii	Dibromochloromethane	mg/l, Max	0.1	<0.006	IS : 10500 : 2012	APHA 24th Edition-2023 (6232)
iii	Chloroform	mg/l, Max	0.1	<0.1	IS : 10500 : 2012	APHA 24th Edition 6232
iv	Bromodichloromethane	mg/l, Max	0.1	<0.1	IS : 10500 : 2012	APHA 24th Edition 6232

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
 Customer information if any : NIL
 Conformity statement as per decision rule , if applicable : --
 Environmental Condition During Testing: Room Temp(°C) : 28-30 Degree C

N.B. : The results relate only to samples tested and test parameters

Analysed By

L. Senapati
 Miss Liza Senapati
 For Kalyani Laboratories Pvt. Ltd.

Verified By

R. Lenka
 Mrs. Rajalaxmi Lenka
 For Kalyani Laboratories Pvt. Ltd.

Authorised By

Rekha Nayak
 Dr. Rekha Nayak
 For Kalyani Laboratories Pvt. Ltd.



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



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TEST REPORT

Test Report No : KLPL/10/25/WATER/04233
Issue Date : 03-Nov-2025
Amendment No : --
Amendment Date : --

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : **POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.**
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 24-Oct-2025 **Commenced On** : 24-Oct-2025 **Completion On**: 03-Nov-2025

Sample Description : **STP OUTLET WATER**
Type of Container : HDPE & GLASS BOTTLE
Sample Identification : **STP OUTLET WATER**
Batch No , Lot No : NOT APPLICABLE **MFG Date** : NOT APPLICABLE **EXP Date**: NOT APPLICABLE
Received Quantity : 1 LTR X 1 NO & 500 ML X 1 NO **Sample Collection Location, & Date** :
Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK) **PLANT STP OUTLET WATER, DATE-23.10.2025**
Sampling Procedure if Any : KLPL/QSP-07

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
i	Faecal Coliform	MPN/100 ml	<1000	4	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	Section 9221(E),9221(C) table 9221.4,APHA 24th edn,2023
ii	Total Suspended Solids	mg/l, Max	<100	<2.5	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition (2540 D):2023
iii	Biochemical Oxygen Demand	mg/l, Max	30	<1.0	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition (5210 B):2023
iv	pH value	--	6.5-9.0	7.20	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition (4500-H+-B):2023

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : --
Environmental Condition During Testing: Room Temp(^oC) : 28-30 Degree C

N.B. : The results relate only to samples tested and test parameters

Analysed By

L. Senapati
 Miss Liza Senapati
 For Kalyani Laboratories Pvt. Ltd.

Verified By

R. Lenka
 Mrs. Rajalaxmi Lenka
 For Kalyani Laboratories Pvt. Ltd.

Authorised By

Debasis Biswal
 Dr. Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd.



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



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TEST REPORT

NABL ULR NO : TC1717825000000013
 Test Report No : 7 | 00010021
 Issue Date : 12-Dec-2025
 Sample Registration No : KLPL/12/25/WATER/00001
 Amendment No : -
 Amendment Date : -



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 02-Dec-2025 Commenced On 02-Dec-2025 Completion On: 12-Dec-2025

Sample Description : STP OUTLET WATER
 Packaged Type : HDPE & GLASS BOTTLE
 Sample Identification : STP OUTLET WATER
 Batch No , Lot No : NA MFG Date NA EXP Date: NA
 Received Quantity : 1LTR X 1NOS & 500ML X 1NOS Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK PLANT STP OUTLET WATER, DATE-29.11.2025
 Sampling Procedure : KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

1	pH value	--	6.5-9.0	7.12	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition(4500-H+ -B): 2023
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CHEMICAL PARAMETER

1	Total Suspended Solids.	mg/l, Max	<100	<2.5	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition(2540 D): 2023
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BACTERIOLOGICAL QUALITY

1	Feecal Coilform	MPN/100 ml	<1000	12	--	APHA 24th edn, Section 9221(E),9221(C) ,table 9221.4: 2023
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TEST REPORT

Test Report No : 7 N| 00010021

Issue Date : 12-Dec-2025

Sample Registration No : KLPL/12/25/WATER/00001

Amendment No : -

Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 02-Dec-2025 Commenced On 02-Dec-2025 Completion On: 12-Dec-2025

Sample Description : STP OUTLET WATER

Packaged Type : HDPE & GLASS BOTTLE

Sample Identification : STP OUTLET WATER

Batch No , Lot No : NA

MFG Date NA

EXP Date: NA

Received Quantity : 1LTR X 1NOS & 500ML X 1NOS

Sample Collection Location, & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK

PLANT STP OUTLET WATER, DATE-29.11.2025

Sampling Procedure : KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER

1	Biochemical Oxygen Demand (@ 27°C for 3 days)	mg/l,Max	30	<2.0	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	IS 3025:Part-44:2023
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Opinion & Interpretation: **As per Customer Specific Standard**

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : -

Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity - 30-60%

N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised By

Miss Pravasini Jena
For Kalyani Laboratories Pvt. Ltd.

Mrs. Rajalaxmi Lenka
For Kalyani Laboratories Pvt. Ltd.

Rekha Nayak
Dr. Rekha Nayak 12/12/2025
For Kalyani Laboratories Pvt. Ltd.

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





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TEST REPORT

NABL ULR NO : TC1717826000000217
Test Report No : 167 | 04880138
Issue Date : 10-Jan-2026
Sample Registration No : KLPL/12/25/WATER/00245
Amendment No : -
Amendment Date : -



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 30-Dec-2025 Commenced On 30-Dec-2025 Completion On: 09-Jan-2026

Sample Description : STP OUTLET WATER
Packaged Type : HDPE & GLASS BOTTLE
Sample Identification : STP OUTLET WATER
Batch No , Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : 1LTR & 250ML Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK PLANT STP OUTLET WATER, DATE-30.12.2025
Sampling Procedure : KLPL/QSP-07



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
PHYSICAL PARAMETER						
i	pH Value	--	6.5-9.0	5.62	Standard specification as per G.S.R. 1265(E), MOEF & CC, 13th October 2017	APHA 24th Edition(4500-H+-B): 2023
CHEMICAL PARAMETER						
i	Total Suspended Solids	mg/l, Max	100	4.0	Standard specification as per G.S.R. 1265(E), MOEF & CC, 13th October 2017	APHA 24th Edition(2540 D): 2023
BACTERIOLOGICAL QUALITY						
i	Feecal Coliform	MPN/100 ml	<1000	14	Standard specification as per G.S.R. 1265(E), MOEF & CC, 13th October 2017	APHA 24th Edition Section 9221(E),9221(C) ,table 9221.4: 2023





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TEST REPORT

Test Report No : 167 N| 04880138

Issue Date : 10-Jan-2026

Sample Registration No : KLPL/12/25/WATER/00245

Amendment No : -

Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 30-Dec-2025 Commenced On 30-Dec-2025 Completion On: 09-Jan-2026

Sample Description : STP OUTLET WATER

Packaged Type : HDPE & GLASS BOTTLE

Sample Identification : STP OUTLET WATER

Batch No , Lot No : NA

MFG Date NA

EXP Date: NA

Received Quantity : 1LTR & 250ML

Sample Collection Location, & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK

PLANT STP OUTLET WATER, DATE-30.12.2025

Sampling Procedure : KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Biochemical Oxygen Demand (@ 27 Deg. C for 3 days)	mg/l,Max	30	<1.0	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	IS 3025:Part-44:2023

Opinion & Interpretation: **As per Customer Specific Standard**

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : -

Environmental Condition During Testing: Room Temp(°C) : 24-25, Humidity: 39-40%

N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised Signatory

L. Senapati

R. Lenka

Rekha Nayak

Miss Liza Senapati

Mrs. Rajalaxmi Lenka

Dr. Rekha Nayak

For Kalyani Laboratories Pvt. Ltd.

For Kalyani Laboratories Pvt. Ltd.

For Kalyani Laboratories Pvt. Ltd.

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





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TEST REPORT

NABL ULR NO : TC1717826000000464
 Test Report No : 317 | 08190225
 Issue Date : 30-Jan-2026
 Sample Registration No : KLPL/1/26/WATER/00432
 Amendment No : -
 Amendment Date : -



TC-17178

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 22-Jan-2026 Commenced On 22-Jan-2026 Completion On: 29-Jan-2026

Sample Description : STP OUTLET WATER
 Packaged Type : HDPE & GLASS BOTTLE
 Sample Identification : STP OUTLET WATER
 Batch No , Lot No : NA MFG Date NA EXP Date: NA
 Received Quantity : 1 LTR & 500ML Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK STP OUTLET , DATE-21.01.2026
 Sampling Procedure : KLPL/QSP-07



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
PHYSICAL PARAMETER						
1	pH Value	--	6.5-9.0	6.86	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition(4500-H+-B): 2023
CHEMICAL PARAMETER						
1	Total Suspended Solids	mg/l, Max	100	<2.5	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition(2540 D): 2023
BACTERIOLOGICAL QUALITY						
1	Fecal Coliform	MPN/100 ml	<1000	12	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition Section 9221(E).9221(C) table 9221.4: 2023





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TEST REPORT

Test Report No : 317 N| 08190225

Issue Date : 30-Jan-2026

Sample Registration No : KLPL/1/26/WATER/00432

Amendment No : -

Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 22-Jan-2026 Commenced On 22-Jan-2026 Completion On: 29-Jan-2026

Sample Description : STP OUTLET WATER

Packaged Type : HDPE & GLASS BOTTLE

Sample Identification : STP OUTLE T WATER

Batch No , Lot No : NA MFG Date NA EXP Date: NA

Received Quantity : 1 LTR & 500ML Sample Collection Location, & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK STP OUTLET , DATE-21.01.2026

Sampling Procedure : KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER

1	Biochemical Oxygen Demand (@ 27 Deg. C for 3 days)	mg/l,Max	30	<1.0	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	IS 3025:Part-44:2023
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Opinion & Interpretation: As per customer specific standards

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : -

Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity - 30-60%

N.B. : The results relate only to samples tested and test parameters

Analysed By

L. Senapati

Miss Liza Senapati

For Kalyani Laboratories Pvt. Ltd.

Verified By

R. Lenka

Mrs. Rajalaxmi Lenka

For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal

Dr. Debasis Biswal

For Kalyani Laboratories Pvt. Ltd.



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



KALYANI LABORATORIES PVT. LTD.

प्लॉट नं. 20/1, वॉल्टेजिन्स पार्क, इंदिरा-भुवनेश्वर-751013, ओडिशा

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TEST REPORT

NABL ULR NO : TC171782600000805
 Test Report No : 555 | 11213FB
 Issue Date : 21-Feb-2026
 Sample Registration No : KLPL/2/26/WATER/00597
 Amendment No : -
 Amendment Date : -



Reference : P.O NO-FPPL/3100006601, DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 16-Feb-2026 Commenced On : 16-Feb-2026 Completion On: 21-Feb-2026

Sample Description : STP OUTLET WATER
 Packaged Type : HDPE & GLASS BOTTLE
 Sample Identification : STP OUTLET WATER
 Batch No, Lot No : NA MFG Date: NA EXP Date: NA
 Received Quantity : 1 LTR X 2NOS & 250ML Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK STP OUTLET, DATE-14.02.2026
 Sampling Procedure : KLPL/QSP-07



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
PHYSICAL PARAMETER						
1	pH Value	—	6.5-9.0	6.72	Standard specification as per IS: 3025 (Part 1)-2017 per G.S.R. 1265(E), MOEF & CC, 13th October 2017	APHA 24th Edition (4500-H ⁺ -B) 2023
CHEMICAL PARAMETER						
1	Total Suspended Solids	mg/L Max	100	4.2	Standard specification as per IS: 3025 (Part 1)-2017 per G.S.R. 1265(E), MOEF & CC, 13th October 2017	APHA 24th Edition (2540-D) 2023
BACTERIOLOGICAL QUALITY						
1	Fecal Coliform	MPN/100 ml	<1000	11	Standard specification as per IS: 3025 (Part 1)-2017 per G.S.R. 1265(E), MOEF & CC, 13th October 2017	APHA 24th Edition Section 9221(E), 9221(C) Table 9221.4: 2023





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TEST REPORT

Test Report No : 555 NI 11213FB
Issue Date : 21-Feb-2026
Sample Registration No : KLPL/2/26/WATER/00597
Amendment No : *
Amendment Date : *
Reference : P.O NO-FPPL/3100006601.DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 16-Feb-2026 Commenced On 16-Feb-2026 Completion On: 21-Feb-2026
Sample Description : STP OUTLET WATER
Packaged Type : HDPE & GLASS BOTTLE
Sample Identification : STP OUTLET WATER
Batch No, Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : 1 LTR X 2NOS & 250ML Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK STP OUTLET, DATE-14.02.2026
Sampling Procedure : KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER						
1	Biochemical Oxygen Demand (at 27 Deg. C for 3 days)	mg/l,Max	30	<1.0	Standard specification as per G.S.R. 1265/EI, MOEF & CC, 13th October 2017	IS:3025-Part-44:2023

Opinion & Interpretation: As per customer specific standards

Any unusual feature observed during determination : NIL
 Customer information if any : NIL
 Conformity statement as per decision rule, if applicable : -
 Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity - 30-60%

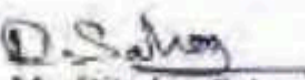
N.B. : The results relate only to samples tested and test parameters

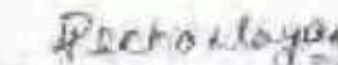
Analysed By

Verified By

Authorised Signatory

L. Senapati
 Miss Liza Senapati
 For Kalyani Laboratories Pvt. Ltd.


 Mr. Dibakar Sahoo
 For Kalyani Laboratories Pvt. Ltd.


 Dr. Rekha Nayak
 For Kalyani Laboratories Pvt. Ltd.



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



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TEST REPORT

NABL ULR NO : TC1717826000001316
 Test Report No : 815 | 17510645
 Issue Date : 08-Apr-2026
 Sample Registration No : KLPL/3/26/WATER/00920
 Amendment No : -
 Amendment Date : -



TC-17178

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 28-Mar-2026 Commenced On 28-Mar-2026 Completion On: 08-Apr-2026

Sample Description : STP OUTLET WATER
 Packaged Type : HDPE & GLASS BOTTLE
 Sample Identification : STP OUTLET WATER
 Batch No , Lot No : NA MFG Date NA EXP Date: NA
 Received Quantity : 1LTR X 1 NO & 250ML X 1 NO Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK STP OUTLET, DATE-27.03.2026
 Sampling Procedure : KLPL/QSP-07



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
PHYSICAL PARAMETER						
1	pH Value	--	6.5-9.0	6.69	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition(4500-H+-B): 2023
CHEMICAL PARAMETER						
1	Total Suspended Solids	mg/l, Max	100	10	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition(2540 D): 2023
BACTERIOLOGICAL QUALITY						
1	Fecal Coliform	MPN/100 ml	<1000	12	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition Section 9221(E),9221(C) table 9221.4: 2023





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PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

Test Report No : 815 NI 17510645
Issue Date : 08-Apr-2026
Sample Registration No : KLPL/3/26/WATER/00920
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 28-Mar-2026 Commenced On 28-Mar-2026 Completion On: 08-Apr-2026

Sample Description : STP OUTLET WATER
Packaged Type : HDPE & GLASS BOTTLE
Sample Identification : STP OUTLET WATER
Batch No , Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : 1LTR X 1 NO & 250ML X 1 NO Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK STP OUTLET, DATE-27.03.2026
Sampling Procedure : KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
1	Biochemical Oxygen Demand (@ 27 Deg. C for 3 days)	mg/l,Max	30	4.0	Standard specification as per G.S.R. 126S(E), MOEF & CC , 13th October 2017	IS 3025:Part-44:2023

Opinion & Interpretation: As per customer specific standards

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity - 30-60%

N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised Signatory

Miss Liza Senapati
For Kalyani Laboratories Pvt. Ltd.

Mrs. Rajalaxmi Lenka
For Kalyani Laboratories Pvt. Ltd.

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

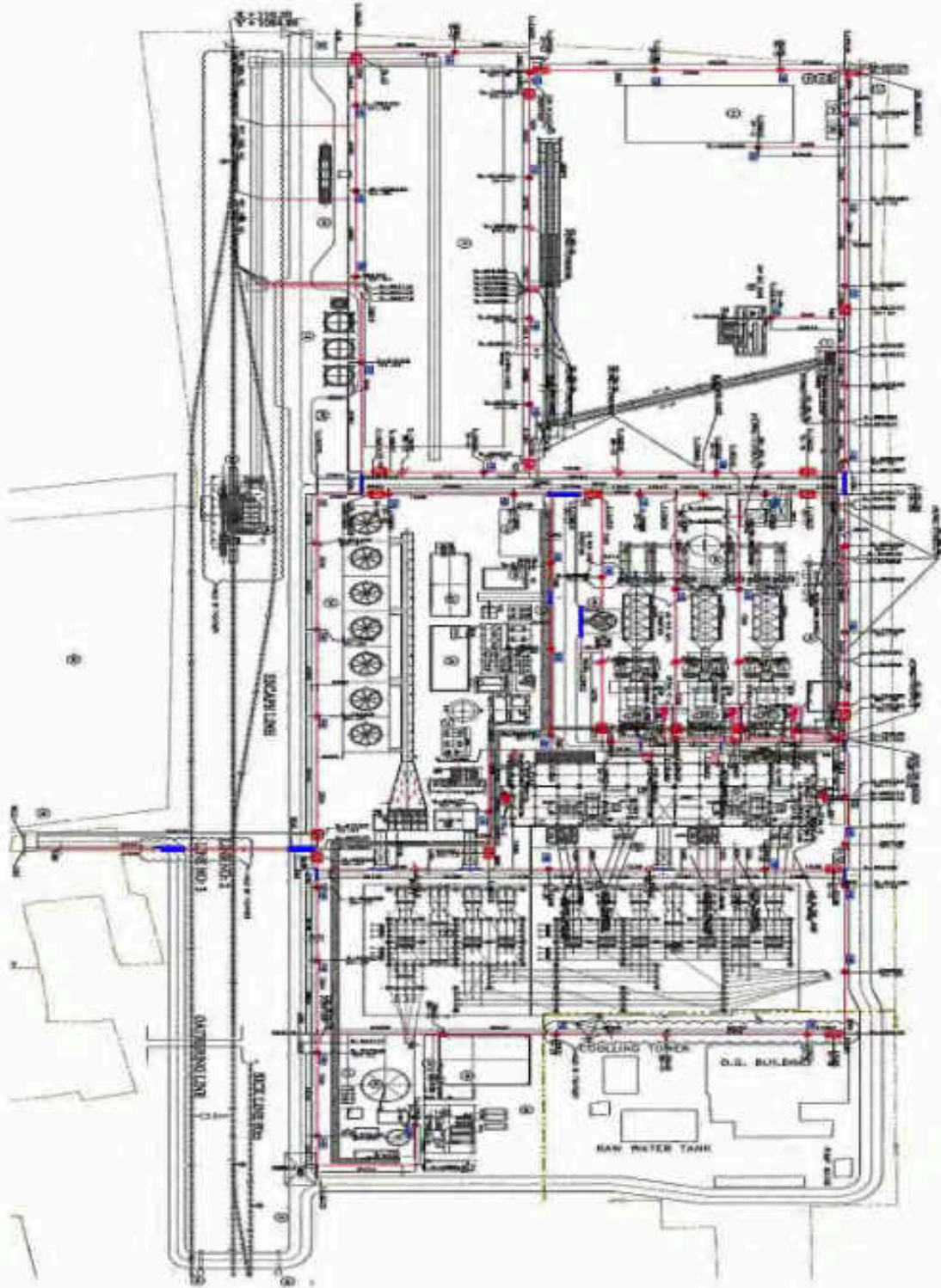


***** End of Test Report *****



Rooftop Rainwater Harvesting Structures.

Fire Hydrant Line Superimposed with Factory Layout





DIRECTORATE OF FACTORIES & BOILERS, ODISHA
APPROVAL OF ONSITE EMERGENCY PLAN

Certificate no: **BHA/OEP/2024/006381**

Dt: 16/07/2024

In pursuance of provision contained under **Section 41-B(4) of the Factories Act, 1948**, the On-Site Emergency Plan of **“POWER PLANT” (FERRO ALLOYS CORPORATION LIMITED), DP NAGAR,RANDIA,BHADRAK,BHADRAK, BHADRAK** having following identified Hazardous substances is hereby provisionally accepted, subject to the conditions as mentioned hereunder:-

Inventory of hazardous substances

#	Name of hazardous substance	Storage capacity (MT)	Operating capacity (MT)	Mode of storage	Mode of disposal	Container type
1	2	3	4	5	6	7
1	Coal	63000 MT	2280 MT	On the ground	Coal is in stored open yard.	horizontal
2	HSD	33 MT	5 MT	Above ground	HSD is stored above the ground.	vertical
3	TurbineOil	70 MT	70 MT	Above ground	Turbine Oil is stored above the ground in closed circulation.	vertical
4	TransformerOil	30.64 MT	30 MT	Above ground	Transformer Oil is stored above the ground.	horizontal
5	HydrochloricAcid	15 MT	14 MT	Above ground	Hydrochloric Acid is stored above the ground.	horizontal
6	Alkali	15 MT	14 MT	Above ground	Alkali is stored above the ground.	horizontal
7	SulphuricAcid	15 MT	14 MT	Above ground	SulphuricAcid is stored above the ground	horizontal
8	SodiumHypochlorite	50 MT	40 MT	Above ground	SodiumHypochlorite is stored above the ground in carbuoys.	vertical

Hazardous gas produced/ substances generated

#	Name of hazardous gas/substance generated during the process	Rate of production	Mode of storage/use	Maximum one time storage
1	2	3	4	5
1	NA	0	NA	0

- Consequent upon any modification / alteration in future the On-Site Emergency plan shall be prepared and submitted for acceptance.

2. The possible hazards associated with the factory and 'Dos' and Don'ts' shall be displayed in prominent place adjacent to main gate & conspicuous places inside the factory with the measures to be taken in case of such incident
3. Each key personnel of the command structure shall be provided with a worksheet containing their duties and responsibilities.
4. Mock Drill shall be scheduled through PARESHRAM portal at least once in every six months involving zonal Asst. Director of Factories and Boilers/ Divisional Dy.Directors of Factories and Boilers concerned & DCG members
5. Annual report on hold of Mock Drills shall be submitted to the authorities of DistrictAdministration under intimation to Assistant Director of Factories & Boilers/DeputyDirector of Factories & Boilers/Director of Factories & Boilers.
6. Awareness programmes on hazard & mitigation shall be made amongst workers and people living in the vicinity

The approved copy of the On-Site Emergency Plan shall be downloaded and be provided to the Collector & District Magistrate, Superintendent of Police, District Fire Officer and Chief Medical Officer of the District.

 SIGN

Director of Factories & Boilers,
Odisha

NOTE :

- (i) This is a digitally signed electronically generated certificate and therefore needs no ink-signed signature.
- (ii) This certificate is issued as per section 4, 5 & 6 of IT Act 2000 and its subsequent amendments in 2008.
- (iii) For verification, visit <https://pareshram-labour.odisha.gov.in>
- (iv) Tampering of this certificate will attract penal action.



KALYANI LABORATORIES PVT. LTD.

PLOT NO-70944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

Test Report No : 6 N| 0011E
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00007
Amendment No : -
Amendment Date : -
Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** 02-Dec-2025 **Completion On:** 05-Dec-2025
Sample Description : NOISE
Package Type : -
Sample Identification : IND. NOISE
Batch No , Lot No : - **MFG Date** - **EXP Date** : -
Received Quantity : - **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK **Boiler-2, date-29.11.2025**
Sampling Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	69.2	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	59.50	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
 Customer information if any : -
 Conformity statement as per decision rule , if applicable : -
 Environmental Condition During Sampling : Temp(°C)- 28-30,
 N.B. : The results relate only to samples tested and test parameters

Analysed By

Mr. Sudhir Kumar Barik
 For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
 For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd.



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



KALYANI LABORATORIES PVT. LTD.

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TEST REPORT

Test Report No : 7 N| 0012F
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00008
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** : 02-Dec-2025 **Completion On** : 05-Dec-2025

Sample Description : NOISE
Package Type : --
Sample Identification : IND. NOISE
Batch No , Lot No : - **MFG Date** : - **EXP Date** : -
Received Quantity : - **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK Boiler-3, Date-29.11.2025
Sampling Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	70.3	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	60.59	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)

Opinion & Interpretation:

Any unusual feature observed during determination : NIL
Customer information if any : -
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Sampling : Temp(°C)- 28-30,
N.B. : The results relate only to samples tested and test parameters



Analysed By

Mr. Sudhir Kumar Barik
For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

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TEST REPORT

Test Report No : 8 N| 00130010
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00009
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** 02-Dec-2025 **Completion On:** 05-Dec-2025

Sample Description : NOISE
Package Type : --
Sample Identification : IND. NOISE
Batch No , Lot No : -- **MFG Date** -- **EXP Date:** --
Received Quantity : -- **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK **Compressor House, Date-29.11.2025**
Sampling Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	73.2	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	62.35	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)

Opinion & Interpretation:

Any unusual feature observed during determination : NIL
Customer information if any : -
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Sampling : Temp(°C)- 28-30,
N.B. : The results relate only to samples tested and test parameters

Analysed By


Mr. Sudhir Kumar Barik
For Kalyani Laboratories Pvt. Ltd.

Verified By


Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory


Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



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



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TEST REPORT

Test Report No : 9 N| 00140011
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00010
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** : 02-Dec-2025 **Completion On** : 05-Dec-2025

Sample Description : NOISE
Package Type : --
Sample Identification : NOISE
Batch No , Lot No : -- **MFG Date** : -- **EXP Date** : -
Received Quantity : -- **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ESP ID fan, Date-29.11.2025
Sampling Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	68.6	Standard Specification Noise Rule 2000	IS 9089:1981 (RA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	60.21	Standard Specification Noise Rule 2000	IS 9089:1981 (RA 2023)

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL


Customer information if any : -

Conformity statement as per decision rule , if applicable : -

Environmental Condition During Sampling : Temp(°C)- 28-30.

N.B. : The results relate only to samples tested and test parameters

Analysed By


 Mr. Sudhir Kumar Barik
 For Kalyani Laboratories Pvt. Ltd.

Verified By


 Mr. Paramesh Jena
 For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory


 Dr. Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd.

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





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TEST REPORT

Test Report No : 10 N| 00150012
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00011
Amendment No : -
Amendment Date : -
Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D,P NAGAR, RANDIA, BHADRAX-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** : 02-Dec-2025 **Completion On** : 05-Dec-2025
Sample Description : NOISE
Package Type : -
Sample Identification : IND. NOISE
Batch No , Lot No : -- **MFG Date** : - **EXP Date** : -
Received Quantity : - **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK DM Plant, Date-29.11.2025
DSamplingProcedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	63.9	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	55.84	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
 Customer information if any : NIL
 Conformity statement as per decision rule , if applicable : -
 Environmental Condition During Sampling : Temp(°C)- 28-30,
N.B. : The results relate only to samples tested and test parameters



Analysed By

Mr. Sudhir Kumar Barik
 For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
 For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd.

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



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PLOT NO-71/94, MILLENIUM CITY PAHAL, BHUBANESWAR-751101, ODISHA

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TEST REPORT

Test Report No : 11 N| 00160013
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00012
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA.
Date of receipt : 02-Dec-2025 **Commenced On** 02-Dec-2025 **Completion On:** 05-Dec-2025

Sample Description : NOISE
Package Type : -
Sample Identification : IND. NOISE
Batch No , Lot No : -- **MFG Date** -- **EXP Date:** --
Received Quantity : - **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ESO ID FAN, Date-29.11.2025
Sampling Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	67.1	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	58.0	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Sampling : Temp(°C)- 28-30,
N.B. : The results relate only to samples tested and test parameters



Analysed By

Mr. Sudhir Kumar Barik
For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Aramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

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TEST REPORT

Test Report No : 12 NJ 00170014
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00013
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** 02-Dec-2025 **Completion On:** 05-Dec-2025

Sample Description : NOISE
Package Type : -
Sample Identification : NOISE
Batch No , Lot No : -- **MFG Date** - **EXP Date:** -
Received Quantity : - **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK **ESP ID FAN-2, Date-29.11.2025**
Sampling Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
PHYSICAL PARAMETER						
i	Noise Level Indl. Area (Day)	dB(A)	75	67.1	Standard Specification Noise Rule 2000	IS 9989:1981 (IRA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	59.15	Standard Specification Noise Rule 2000	IS 9989:1981 (IRA 2023)

Opinion & Interpretation: -

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Sampling : Temp(°C)- 28-30,
N.B. : The results relate only to samples tested and test parameters



Analysed By

Mr. Sudhir Kumar Barik
For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

Test Report No : 13 N| 00180015
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00014
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** : 02-Dec-2025 **Completion On** : 05-Dec-2025

Sample Description : NOISE
Package Type : -
Sample Identification : IND. NOISE
Batch No , Lot No : -- **MFG Date** : -- **EXP Date** : --
Received Quantity : -- **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ETP, Date-29.11.2025
Sampling Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	58.8	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	52.33	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)

Opinion & Interpretation:

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Sampling : Temp(°C)- 28-30,
N.B. : The results relate only to samples tested and test parameters

Analysed By

Mr. Sudhir Kumar Barik
For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENNIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

Test Report No : 14 N| 00190016
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00015
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDJA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** 02-Dec-2025 **Completion On:** 05-Dec-2025

Sample Description : NOISE
Package Type : --
Sample Identification : IND.NOISE
Batch No , Lot No : -- **MFG Date** -- **EXP Date:** --
Received Quantity : -- **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK Near Main Gate, Date-29.11.2025
Sampling Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	55.7	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	50.11	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)

Opinion & Interpretation: -

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Sampling : Temp(°C)- 28-30,
N.B. : The results relate only to samples tested and test parameters



Analysed By

Mr. Sudhir Kumar Barik
For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

Test Report No : 15 N| 00200017
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00016
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** : 02-Dec-2025 **Completion On** : 05-Dec-2025

Sample Description : NOISE
Package Type : --
Sample Identification : IND. NOISE
Batch No , Lot No : -- **MFG Date** : -- **EXP Date** : --
Received Quantity : -- **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK Near Primary Crusher, Date-29.11.2025
Sampling Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	73.7	Standard Specification Noise Rule 2000	IS 9889:1981 (RA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	65.93	Standard Specification Noise Rule 2000	IS 9889:1981 (RA 2023)

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Sampling : Temp(°C)- 28-30,
N.B. : The results relate only to samples tested and test parameters



Analysed By

Mr. Sudhir Kumar Barik
For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENNIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

Test Report No : 16 N| 00210018
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00017
Amendment No : -
Amendment Date : -
Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** : 02-Dec-2025 **Completion On** : 05-Dec-2025
Sample Description : NOISE
Package Type : --
Sample Identification : IND. NOISE
Batch No , Lot No : -- **MFG Date** : -- **EXP Date** : --
Received Quantity : -- **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK **Secondary Crusher, Date**-29.11.2025
Sampling Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	65.9	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2021)
ii	Noise Level Indl. Area (Night)	dB(A)	70	57.26	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2021)

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
 Customer information if any : NIL
 Conformity statement as per decision rule , if applicable : -
 Environmental Condition During Sampling : Temp(°C)- 28-30,
N.B. : The results relate only to samples tested and test parameters



Analysed By

Mr. Sudhir Kumar Barik
 For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
 For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/94, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

Test Report No : 17 NJ 00220019
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00018
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** 02-Dec-2025 **Completion On:** 05-Dec-2025

Sample Description : NOISE
Package Type : --
Sample Identification : IND. NOISE
Batch No , Lot No : -- **MFG Date** -- **EXP Date:** --
Received Quantity : -- **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK STG Condenser, Date-29.11.2025
Sampling Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	69.8	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	62.11	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Sampling : Temp(°C)- 28-30,
N.B. : The results relate only to samples tested and test parameters



Analysed By

Mr. Sudhir Kumar Barik
For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



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TEST REPORT

Test Report No : 18 N| 00230000
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00019
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601.DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** : 02-Dec-2025 **Completion On** : 05-Dec-2025

Sample Description : NOISE
Package Type : --
Sample Identification : IND.NOISE
Batch No , Lot No : -- **MFG Date** : -- **EXP Date** : --
Received Quantity : -- **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK New wagon tippler, Date-29.11.2025
Sampling Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	63.4	Standard Specification Noise Rule 2000	IS 9989:1981 (IA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	55.49	Standard Specification Noise Rule 2000	IS 9989:1981 (IA 2023)

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Sampling : Temp(°C)- 28-30,
N.B. : The results relate only to samples tested and test parameters



Analysed By

Mr. Sudhir Kumar Barik
For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



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TEST REPORT

Test Report No : 23 N| 00081F
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00004
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** 02-Dec-2025 **Completion On:** 05-Dec-2025

Sample Description : NOISE
Package Type : --
Sample Identification : IND. NOISE
Batch No , Lot No : - **MFG Date** - **EXP Date:** -
Received Quantity : -- **Sample Collection Location, & Date** :
Data Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK INSIDE CONTROL ROOM, DATE-29.11.2025
Data Collection Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	63.9	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	55.84	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Sampling : Temp(°C)- 28-30,
N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised Signatory

Mr. Sudhir kumar Barik
For Kalyani Laboratories Pvt. Ltd.

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



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



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PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

Test Report No : 4 N| 0009C
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00005
Amendment No : -
Amendment Date : -
Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** : 02-Dec-2025 **Completion On** : 05-Dec-2025
Sample Description : NOISE
Package Type : --
Sample Identification : IND. NOISE
Batch No , Lot No : - **MFG Date** : - **EXP Date** : -
Received Quantity : - **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK Near Admin Office, Date-29.11.2025
Sampling Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	60.2	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	53.26	Standard Specification Noise Rule 2000	IS 9989:1981 (RA 2023)

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
 Customer information if any : -
 Conformity statement as per decision rule , if applicable : -
 Environmental Condition During Sampling : Temp(°C)- 28-30,
N.B. : The results relate only to samples tested and test parameters



Analysed By

Mr. Sudhir Kumar Barik
 For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
 For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd.

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



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TEST REPORT

Test Report No : 5 N| 0010D
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00006
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 **Commenced On** 02-Dec-2025 **Completion On:** 05-Dec-2025

Sample Description : NOISE
Package Type : --
Sample Identification : IND. NOISE
Batch No , Lot No : - **MFG Date -** **EXP Date: -**
Received Quantity : - **Sample Collection Location, & Date** :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK **Boiler -1, Date-29.11.2025**
Sampling Procedure : KLPL/NOISE/SOP-23

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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PHYSICAL PARAMETER

i	Noise Level Indl. Area (Day)	dB(A)	75	72.6	Standard Specification Noise Rule 2000	IS 9889:1981 (RA 2023)
ii	Noise Level Indl. Area (Night)	dB(A)	70	61.87	Standard Specification Noise Rule 2000	IS 9889:1981 (RA 2023)

Opinion & Interpretation:

Any unusual feature observed during determination : NIL
Customer information if any : -
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Sampling : Temp(°C)- 28-30,
N.B. : The results relate only to samples tested and test parameters



Analysed By

Mr. Sudhir Kumar Barik
For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



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TEST REPORT

Test Report No	: KLPL/10/25/ENVN/00705					
Issue Date	: 28-Oct-2025					
Amendment No	: -					
Amendment Date	: -					
Reference	: P.O NO-FPPL/3100006601,DATE-8.11.2022					
Customer Name	: POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.					
Address	: D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA					
Date of receipt	: 24-Oct-2025	Commenced On	: 24-Oct-2025	Completion On	: 11-Nov-2025	
Sample Name	: AMBIENT AIR					
Sample Condition	: GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG					
Sample Collected By	: KLPL (MR. SUDHIR KUMAR BARIK)					
Ref.To Sampling Procedure	: KLPL/SOP/AIR-05 & KLPL/QSP-07					
Parameters	Unit	Requirement	Results	Standard Reference	Test Method	
Location & Date : NEAR ADMIN BUILDING, DATE-23.10.2025						
i	Sulphur Dioxide (as SO ₂)	µg/m ³	80	8.51	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-2, Sec-1): 2023
ii	Nitrogen Dioxide	µg/m ³	80	13.95	Requirement is as per standard specification NAAQS:2009	IS 5182 (Part-6):2006,RA:2022
iii	Particulate Matter (PM10)	µg/m ³	100	65.61	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-23) :2006,RA:2022
iv	Particulate Matter (PM2.5)	µg/m ³	60	29.79	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02,Issue No.01:2017
v	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.65	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vi	Ozone (O ₃) (01 Hrs.)	µg/m ³	180	5.8	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vii	Lead (as Pb)	µg/m ³	1.0	<0.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10,Issue No.01:2017
viii	Ammonia (NH ₃)	µg/m ³	400	<5.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05,Issue No.01: 2017
ix	Benza (a) Pyrene (BaP)	ng/m ³	01	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019
x	Arsenic (as As)	ng/m ³	06	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10,Issue No.01: 2017
xi	Nickel (Ni)	ng/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10,Issue No.01:2017
Location & Date : NEAR ADMIN BUILDING, DATE-23.10.2025						
i	Benzene (C ₆ H ₆)	µg/m ³	05	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019





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Test Report No : KLPL/10/25/ENVN/00705

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
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Remark: -

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Confirmation statement as per decision rule, if applicable : --

Environmental Condition during Testing: Room Temp (°C) : 28-30 Degree C

N.B. : The results relate only to samples tested and test parameters



Analysed By

Verified By

Authorised By

A. Behera

P. Jena

Debasis Biswal

Mr. Abhirup Behera
Analyst

Mr. Paramesh Jena
Technical Manager

Dr. Debasis Biswal
Managing Director

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



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TEST REPORT

Test Report No	: KLPL/10/25/ENVN/00706					
Issue Date	: 28-Oct-2025					
Amendment No	: -					
Amendment Date	: -					
Reference	: P.O NO-FPPL/3100006601,DATE-8.11.2022					
Customer Name	: POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.					
Address	: D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA					
Date of receipt	: 24-Oct-2025	Commenced On	: 24-Oct-2025	Completion On	: 27-Oct-2025	
Sample Name	: AMBIENT AIR					
Sample Condition	: GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG					
Sample Collected By	: KLPL (MR. SUDHIR KUMAR BARIK)					
Ref.To Sampling Procedure	: KLPL/SOP/AIR-05 & KLPL/QSP-07					
Parameters	Unit	Requirement	Results	Standard Reference	Test Method	
Location & Date : NEAR MAIN GATE, DATE-23.10.2025						
i	Sulphur Dioxide (as SO ₂)	µg/m ³	80	8.95	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-2, Sec-1): 2023
ii	Nitrogen Dioxide	µg/m ³	80	15.19	Requirement is as per standard specification NAAQS:2009	IS 5182 (Part-6):2006,RA:2022
iii	Particulate Matter (PM10)	µg/m ³	100	68.64	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-23) :2006,RA:2022
iv	Particulate Matter (PM2.5)	µg/m ³	60	32.06	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02,Issue No.01:2017
v	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.68	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vi	Ozone (O ₃) (01 Hrs.)	µg/m ³	180	6.6	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vii	Lead (as Pb)	µg/m ³	1.0	<0.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10,Issue No.01:2017
viii	Ammonia (NH ₃)	µg/m ³	400	<5.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05,Issue No.01: 2017
ix	Benza (a) Pyrene (BaP)	ng/m ³	01	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019
x	Arsenic (as As)	ng/m ³	06	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10,Issue No.01: 2017
xi	Nickel (Ni)	ng/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10,Issue No.01:2017
Location & Date : NEAR MAIN GATE, DATE-23.10.2025						
i	Benzene (C ₆ H ₆)	µg/m ³	05	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019





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Test Report No : KLPL/10/25/ENVN/00706

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
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Remark: -

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Confirmation statement as per decision rule , if applicable : --
Environmental Condition during Testing: Room Temp (°C) : 28-30 Degree C

N.B. : The results relate only to samples tested and test parameters



Analysed By

A. Behera

Mr. Abhirup Behera
Analyst

Verified By

Mr. Paramesh Jena
Technical Manager

Authorised By

Dr. Debasis Biswal
Managing Director

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



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TEST REPORT

NABL ULR NO : TC1717825000000009
 Test Report No : 2 | 00000000
 Issue Date : 06-Dec-2025
 Sample Registration No : KLPL/12/25/ENVN/00002
 Amendment No : -
 Amendment Date : -



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 02-Dec-2025 Commenced On 02-Dec-2025 Completion On: 05-Dec-2025

Sample Description : AMBIENT AIR
 Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
 Sample Identification : AMBIENT AIR
 Batch No , Lot No : NA MFG Date NA EXP Date: NA
 Received Quantity : - Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK NEAR MAIN GATE, DATE-28.11.2025
 Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER						
i	Ammonia (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05: 2017
ii	Arsenic (as As)	ng/m ³	6	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
iii	Benza (a) Pyrene (BaP)	ng/m ³	1	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07: 2019
iv	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	4	0.71	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19: 2019
v	Lead (as Pb)	µg/m ³	1	<0.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vi	Nickel (Ni)	ng/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vii	Nitrogen Dioxide(NO2)	µg/m ³	80	15.99	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-6):2006





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Test Report No : 2 | 00000000

Sample Registration No : KLPL/12/25/ENVN/00002

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
viii	Ozone (O3) (01 Hrs.)	$\mu\text{g}/\text{m}^3$	180	5.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-13: 2019
ix	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	100	71.63	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-23): 2006
x	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	60	29.17	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02: 2017
xi	Sulphur Dioxide(SO2)	$\mu\text{g}/\text{m}^3$	80	8.95	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-2): 2001

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Testing : Room Temp($^{\circ}\text{C}$)- 28-30, Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters

Analysed By

A. Behera
Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Verified By


Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory


Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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





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TEST REPORT

Test Report No : 2 NI 00000000

Issue Date : 06-Dec-2025

Sample Registration No : KLPL/12/25/ENVN/00002

Amendment No : -

Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 02-Dec-2025 Commenced On 02-Dec-2025 Completion On: 05-Dec-2025

Sample Description : AMBIENT AIR

Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Identification : AMBIENT AIR

Batch No , Lot No : NA

MFG Date NA

EXP Date: NA

Received Quantity : - Sample Collection Location, & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK NEAR MAIN GATE, DATE-28.11.2025

Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
i	Benzene (C6 H6)	$\mu\text{g}/\text{m}^3$	5	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : -

Environmental Condition During Testing : Room Temp($^{\circ}\text{C}$)- 28-30, Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters



Analysed By

Verified By

Authorised Signatory

A. Behera

Dr. Debasis Biswal

Mr. Abhirup Behera

Mr. Paramesh Jena

Dr. Debasis Biswal

For Kalyani Laboratories Pvt. Ltd.

For Kalyani Laboratories Pvt. Ltd.

For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

NABL ULR NO : TC1717825000000010
Test Report No : 3 | 0007B
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00003
Amendment No : -
Amendment Date : -



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 Commenced On 02-Dec-2025 Completion On: 05-Dec-2025

Sample Description : AMBIENT AIR
Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Identification : AMBIENT AIR
Batch No , Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : -- Sample Collection Location, & Date : NEAR WAGON GATE, DATE-29.11.2025
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK
Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER						
i	Ammonia (NH ₃)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05: 2017
ii	Arsenic (as As)	ng/m ³	6	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
iii	Benza (a) Pyrene (BaP)	ng/m ³	1	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07: 2019
iv	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	4	0.84	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19: 2019
v	Lead (as Pb)	µg/m ³	1	<0.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vi	Nickel (Ni)	ng/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vii	Nitrogen Dioxide(NO ₂)	µg/m ³	80	18.96	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-6): 2006





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Test Report No : 3 | 0007B

Sample Registration No : KLPL/12/25/ENVN/00003

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
viii	Ozone (O3) (01 Hrs.)	$\mu\text{g}/\text{m}^3$	180	7.35	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AJR-13: 2019
ix	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	100	84.95	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-23): 2006
x	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	60	32.77	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AJR-02: 2017
xi	Sulphur Dioxide(SO2)	$\mu\text{g}/\text{m}^3$	80	9.86	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-2): 2001

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Testing : Room Temp($^{\circ}\text{C}$)- 28-30, Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters



Analysed By

Verified By

Authorised Signatory

A. Behera

Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



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PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

Test Report No : 3 N| 0007B

Issue Date : 06-Dec-2025

Sample Registration No : KLPL/12/25/ENVN/00003

Amendment No : -

Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 02-Dec-2025 Commenced On 02-Dec-2025 Completion On: 05-Dec-2025

Sample Description : AMBIENT AIR

Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Identification : AMBIENT AIR

Batch No , Lot No : NA

MFG Date NA

EXP Date: NA

Received Quantity : -- Sample Collection Location, & Date :

Sample Collected By : BY KLPL --MR. SUDHIR KUMAR BARIK NEAR WAGON GATE, DATE-29.11.2025

Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
i	Benzene (C6 H6)	$\mu\text{g}/\text{m}^3$	5	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : -

Environmental Condition During Testing : Room Temp($^{\circ}\text{C}$)- 28-30, Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised Signatory

A. Behera

Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

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TEST REPORT

NABL ULR NO : TC1717825000000008
Test Report No : 1 | 00050009
Issue Date : 06-Dec-2025
Sample Registration No : KLPL/12/25/ENVN/00001
Amendment No : -
Amendment Date : -



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 02-Dec-2025 Commenced On 02-Dec-2025 Completion On: 05-Dec-2025

Sample Description : AMBIENT AIR
Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Identification : AMBIENT AIR
Batch No , Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : - Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ADMIN BUILDING, DATE-27.11.2025
Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER						
i	Ammonia (NH3)	$\mu\text{g}/\text{m}^3$	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05: 2017
ii	Arsenic (as As)	ng/m^3	6	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
iii	Benza (a) Pyrene (BaP)	ng/m^3	1	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07: 2019
iv	Carbon Monoxide (CO) (01 Hrs.)	mg/m^3	4	0.68	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19: 2019
v	Lead (as Pb)	$\mu\text{g}/\text{m}^3$	1	<0.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vi	Nickel (Ni)	ng/m^3	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vii	Nitrogen Dioxide(NO2)	$\mu\text{g}/\text{m}^3$	80	14.05	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-6): 2006





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Test Report No : 1 | 00050009

Sample Registration No : KLPL/12/25/ENVN/00001

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
viii	Ozone (O3) (01 Hrs.)	$\mu\text{g}/\text{m}^3$	180	4.4	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-13: 2019
ix	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	100	68.13	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-23): 2006
x	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	60	32.57	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02: 2017
xi	Sulphur Dioxide(SO2)	$\mu\text{g}/\text{m}^3$	80	7.35	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-2): 2001

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Testing : Room Temp($^{\circ}\text{C}$)- 28-30, Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters

Analysed By

A. Behera
Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



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



KALYANI LABORATORIES PVT. LTD.

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TEST REPORT

Test Report No : 1 NI 00050009

Issue Date : 06-Dec-2025

Sample Registration No : KLPL/12/25/ENVN/00001

Amendment No : -

Amendment Date : -

Reference : P.O NO-FPPL/3100006601.DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 02-Dec-2025 Commenced On 02-Dec-2025 Completion On: 05-Dec-2025

Sample Description : AMBIENT AIR

Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Identification : AMBIENT AIR

Batch No , Lot No : NA

MFG Date NA

EXP Date: NA

Received Quantity : - Sample Collection Location, & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ADMIN BUILDING, DATE-27.11.2025

Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
i	Benzene (C6 H6)	$\mu\text{g}/\text{m}^3$	5	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : -

Environmental Condition During Testing : Room Temp($^{\circ}\text{C}$)- 28-30, Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters



Analysed By

Verified By

Authorised Signatory

A. Behera
Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

NABL ULR NO : TC1717826000000251
Test Report No : 70 | 04620132
Issue Date : 10-Jan-2026
Sample Registration No : KLPL/12/25/ENVN/00110
Amendment No : --
Amendment Date : --



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 31-Dec-2025 Commenced On 31-Dec-2025 Completion On: 06-Jan-2026

Sample Description : AMBIENT AIR
Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Identification : AMBIENT AIR
Batch No , Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : 1 NO Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK NEAR WAGON GATE-29.12.2025
Sampling Procedure : KLPL/QSP-07 & KLPL/SOP/AIR-05



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Arsenic (as As)	ng/m ³	6	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
ii	Benzo (a) Pyrene (BaP)	ng/m ³	1	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07: 2019
iii	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	4	0.85	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19: 2019
iv	Lead (as Pb)	µg/m ³	1	<0.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
v	Nickel (Ni)	ng/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vi	Nitrogen Dioxide (NO2)	µg/m ³	80	15.91	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-6): 2006
vii	Ozone (O3) (01 Hrs.)	µg/m ³	180	9.10	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-13: 2019
viii	Particulate Matter (PM10)	µg/m ³	100	85.17	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-23): 2006





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TC-17178

Test Report No : 70 | 04620132

Sample Registration No : KLPL/12/25/ENVN/00110

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
ix	Particulate Matter (PM2.5)	µg/m ³	60	38.30	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02: 2017
x	Sulphur Dioxide (SO2)	µg/m ³	80	10.13	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-2): 2001
xi	Ammonia (as NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05: 2017

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule, if applicable : --

Environmental Condition During Testing: Room Temp(°C) : 24-25, Humidity: 39-40%

N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised Signatory

A. Behera

Mr. Abhirup Behera

Mr. Paramesh Jena

Dr. Debasis Biswal

For Kalyani Laboratories Pvt. Ltd.

For Kalyani Laboratories Pvt. Ltd.

For Kalyani Laboratories Pvt. Ltd.



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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

Test Report No : 70 NI 04620132

Issue Date : 10-Jan-2026

Sample Registration No : KLPL/12/25/ENVN/00110

Amendment No : --

Amendment Date : --

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 31-Dec-2025 Commenced On 31-Dec-2025 Completion On: 06-Jan-2026

Sample Description : AMBIENT AIR

Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Identification : AMBIENT AIR

Batch No , Lot No : NA

MFG Date NA

EXP Date: NA

Received Quantity : 1 NO

Sample Collection Location, & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK

NEAR WAGON GATE-30.12.2025

Sampling Procedure : KLPL/QSP-07 & KLPL/SOP/AIR-05

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Benzene (C6 H6)	µg/m ³	5	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : --

Environmental Condition During Testing: Room Temp(°C) : 24-25, Humidity: 39-40%

N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised Signatory

A. Behera

Mr. Abhirup Behera

Mr. Paramesh Jena

Dr. Debasis Biswal

For Kalyani Laboratories Pvt. Ltd.

For Kalyani Laboratories Pvt. Ltd.

For Kalyani Laboratories Pvt. Ltd.



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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

NABL ULR NO : TC1717826000000252
 Test Report No : 71 | 04630133
 Issue Date : 10-Jan-2026
 Sample Registration No : KLPL/12/25/ENVN/00111
 Amendment No : --
 Amendment Date : --



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 31-Dec-2025 Commenced On 31-Dec-2025 Completion On: 06-Jan-2026

Sample Description : AMBIENT AIR
 Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
 Sample Identification : AMBIENT AIR
 Batch No , Lot No : NA MFG Date NA EXP Date: NA
 Received Quantity : 1 NO Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK NEAR MAIN GATE, DATE-30.12.2025
 Sampling Procedure : KLPL/QSP-07 & KLPL/SOP-05



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Arsenic (as As)	ng/m ³	6	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
ii	Benzo (a) Pyrene (BaP)	ng/m ³	1	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07: 2019
iii	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	4	0.72	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19: 2019
iv	Lead (as Pb)	µg/m ³	1	<0.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
v	Nickel (Ni)	ng/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vi	Nitrogen Dioxide (NO2)	µg/m ³	80	12.04	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-6): 2006
vii	Ozone (O3) (01 Hrs.)	µg/m ³	180	7.7	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-13: 2019
viii	Particulate Matter (PM10)	µg/m ³	100	72.14	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-23): 2006





KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TC-17178

Test Report No : 71 | 04630133

Sample Registration No : KLPL/12/25/ENVN/00111

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
ix	Particulate Matter (PM2.5)	µg/m ³	60	30.05	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02: 2017
x	Sulphur Dioxide (SO ₂)	µg/m ³	80	8.17	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-2): 2001
xi	Ammonia (as NH ₃)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05: 2017

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule, if applicable : --

Environmental Condition During Testing: Room Temp(°C) : 24-25, Humidity: 39-40%

N.B. : The results relate only to samples tested and test parameters

Analysed By

A. Behera

Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

Test Report No : 71 NI 04630133

Issue Date : 10-Jan-2026

Sample Registration No : KLPL/12/25/ENVN/00111

Amendment No : --

Amendment Date : --

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 31-Dec-2025 Commenced On 31-Dec-2025 Completion On: 06-Jan-2026

Sample Description : AMBIENT AIR

Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Identification : AMBIENT AIR

Batch No , Lot No : NA

MFG Date NA

EXP Date: NA

Received Quantity : 1 NO

Sample Collection Location, & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK

NEAR MAIN GATE, DATE-30.12.2025

Sampling Procedure : KLPL/QSP-07 & KLPL/SOP/AIR-05

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Benzene (C6 H6)	µg/m ³	5	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : --

Environmental Condition During Testing: Room Temp(°C) : 24-25, Humidity: 39-40%

N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised Signatory

A. Behera
Mr. Abhirup Behera

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



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



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TEST REPORT

NABL ULR NO : TC1717826000000253
Test Report No : 72 | 04640134
Issue Date : 10-Jan-2026
Sample Registration No : KLPL/12/25/ENVN/00112
Amendment No : --
Amendment Date : --



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 31-Dec-2025 Commenced On 31-Dec-2025 Completion On: 06-Jan-2026

Sample Description : AMBIENT AIR
Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Identification : AMBIENT AIR
Batch No , Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : 1 NO Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK NEAR ADMIN BUILDING, DATE-30.12.2025
Sampling Procedure : KLPL/QSP-07 & KLPL/SOP/AIR-05



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Arsenic (as As)	ng/m ³	6	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
ii	Benzo (a) Pyrene (BaP)	ng/m ³	1	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07: 2019
iii	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	4	0.77	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19: 2019
iv	Lead (as Pb)	µg/m ³	1	<0.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
v	Nickel (Ni)	ng/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vi	Nitrogen Dioxide (NO2)	µg/m ³	80	14.17	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-6): 2006
vii	Ozone (O3) (01 Hrs.)	µg/m ³	180	6.4	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-13: 2019
viii	Particulate Matter (PM10)	µg/m ³	100	71.82	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-23): 2006





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Test Report No : 72 | 04640134

Sample Registration No : KLPL/12/25/ENVN/00112

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
ix	Particulate Matter (PM2.5)	µg/m ³	60	34.64	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02: 2017
x	Sulphur Dioxide (SO2)	µg/m ³	80	9.89	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-2): 2001
xi	Ammonia (as NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05: 2017

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
 Customer information if any : NIL
 Conformity statement as per decision rule , if applicable : --
 Environmental Condition During Testing: Room Temp(°C) : 24-25, Humidity: 39-40%

N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised Signatory

A. Behera
 Mr. Abhirup Behera
 For Kalyani Laboratories Pvt. Ltd.

Mr. Paramesh Jena
 For Kalyani Laboratories Pvt. Ltd.

Dr. Debasis Biswal
 Dr. Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd.



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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

Test Report No : 72 N| 04640134

Issue Date : 10-Jan-2026

Sample Registration No : KLPL/12/25/ENVN/00112

Amendment No : --

Amendment Date : --

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 31-Dec-2025 Commenced On 31-Dec-2025 Completion On: 06-Jan-2026

Sample Description : AMBIENT AIR

Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Identification : AMBIENT AIR

Batch No , Lot No : NA

MFG Date NA

EXP Date: NA

Received Quantity : --

Sample Collection Location, & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK

NEAR ADMIN BUILDING, DATE-30.12.2025

Sampling Procedure : KLPL/QSP-07 & KLPL/SOP/AIR-05

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Benzene (C6 H6)	µg/m ³	5	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : --

Environmental Condition During Testing: Room Temp(°C) : 24-25, Humidity: 39-40%

N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised Signatory

A. Behera

Mr. Abhirup Behera

Mr. Paramesh Jena

Dr. Debasis Biswal

For Kalyani Laboratories Pvt. Ltd.

For Kalyani Laboratories Pvt. Ltd.

For Kalyani Laboratories Pvt. Ltd.



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



KALYANI LABORATORIES PVT. LTD.

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TEST REPORT

NABL ULR NO : TC1717826000000461
 Test Report No : 120 | 07990229
 Issue Date : 28-Jan-2026
 Sample Registration No : KLPL/1/26/ENVN/00206
 Amendment No : -
 Amendment Date : -



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 22-Jan-2026 Commenced On 22-Jan-2026 pCompletion On: 27-Jan-2026

Sample Description : AMBIENT AIR
 Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
 Sample Identification : AMBIENT AIR
 Batch No , Lot No : NA MFG Date NA EXP Date: NA
 Received Quantity : 1 NO Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK NEAR MAIN GATE, DATE-21.01.2026
 Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER

i	Arsenic (as As)	ng/m ³	6	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
ii	Benzo (a) Pyrene (BaP)	ng/m ³	1	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07: 2019
iii	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	4	<0.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19: 2019
iv	Lead (as Pb)	µg/m ³	1	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
v	Nickel (Ni)	ng/m ³	20	11.19	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vi	Nitrogen Dioxide (NO ₂)	µg/m ³	80	3.8	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-6): 2006
vii	Ozone (O ₃) (01 Hrs.)	µg/m ³	180	65.06	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-13: 2019
viii	Particulate Matter (PM ₁₀)	µg/m ³	100	29.92	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-23): 2006





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TC-17178

Test Report No : 120 | 07990229
Sample Registration No : KLPL/1/26/ENVN/00206

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
ix	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	60	8.14	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02: 2017
x	Sulphur Dioxide (SO2)	$\mu\text{g}/\text{m}^3$	80	<1.0	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-2): 2001
xi	Ammonia (as NH3)	$\mu\text{g}/\text{m}^3$	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05: 2017

Opinion & Interpretation:

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Testing : Room Temp($^{\circ}\text{C}$)- 24-25 $^{\circ}\text{C}$, Humidity : 28-30%



N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised Signatory

A. Behera
Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Paramesh Jena
Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Debasis Biswal
Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

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TEST REPORT

Test Report No : 120 NI 07990229

Issue Date : 28-Jan-2026

Sample Registration No : KLPL/1/26/ENVN/00206

Amendment No : -

Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 22-Jan-2026 Commenced On 22-Jan-2026 Completion On: 27-Jan-2026

Sample Description : AMBIENT AIR

Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Identification : AMBIENT AIR

Batch No , Lot No : NA

MFG Date NA

EXP Date: NA

Received Quantity : 1 NO

Sample Collection Location, & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK

NEAR MAIN GATE, DATE-21.01.2026

Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER

i	Benzene (C6 H6)	µg/m ³	5	0.65	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
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Opinion & Interpretation:

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : -

Environmental Condition During Testing : Room Temp(°C)- 24-25 °C, Humidity : 28-30%

N.B. : The results relate only to samples tested and test parameters



Analysed By

Verified By

Authorised Signatory

A. Behera

Mr. Abhirup Behera

Mr. Paramesh Jena

Dr. Debasis Biswal

For Kalyani Laboratories Pvt. Ltd.

For Kalyani Laboratories Pvt. Ltd.

For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

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TEST REPORT

NABL ULR NO : TC1717826000000460
 Test Report No : 121 | 07980001
 Issue Date : 28-Jan-2026
 Sample Registration No : KLPL/1/26/ENVN/00205
 Amendment No : -
 Amendment Date : -



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 22-Jan-2026 Commenced On 22-Jan-2026 Completion On: 27-Jan-2026

Sample Description : AMBIENT AIR
 Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
 Sample Identification : AMBIENT AIR
 Batch No , Lot No : - MFG Date - EXP Date: -
 Received Quantity : 1 NO Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ADMIN BUILDING, DATE-21.01.2026
 Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Arsenic (as As)	ng/m ³	6	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
ii	Benzo (a) Pyrene (BaP)	ng/m ³	1	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07: 2019
iii	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	4	0.73	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19: 2019
iv	Lead (as Pb)	µg/m ³	1	<0.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
v	Nickel (Ni)	ng/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vi	Nitrogen Dioxide (NO ₂)	µg/m ³	80	12.14	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-6): 2006
vii	Ozone (O ₃) (01 Hrs.)	µg/m ³	180	7.7	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-13: 2019
viii	Particulate Matter (PM ₁₀)	µg/m ³	100	73.98	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-23): 2006





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Test Report No : 121 | 07980001
Sample Registration No : KLPL/1/26/ENVN/00205

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
ix	Particulate Matter (PM2.5)	µg/m ³	60	30.31	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02: 2017
x	Sulphur Dioxide (SO2)	µg/m ³	80	9.07	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-2): 2001
xi	Ammonia (as NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05: 2017

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Testing : Room Temp(°C)- 24-25 °C, Humidity : 28-30%



N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised Signatory

A. Behera
Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Paramesh Jena
Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Debasis Biswal
Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



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PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

Test Report No : 121 NI 07980001

Issue Date : 28-Jan-2026

Sample Registration No : KLPL/1/26/ENVN/00205

Amendment No : -

Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 22-Jan-2026 Commenced On 22-Jan-2026 Completion On: 27-Jan-2026

Sample Description : AMBIENT AIR

Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Identification : AMBIENT AIR

Batch No , Lot No : - MFG Date - EXP Date: -

Received Quantity : 1 NO Sample Collection Location, & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ADMIN BUILDING, DATE-21.01.2026

Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER

i	Benzene (C6 H6)	µg/m ³	5	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
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Opinion & Interpretation: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : -

Environmental Condition During Testing : Room Temp(°C)- 24-25 °C, Humidity : 28-30%

N.B. : The results relate only to samples tested and test parameters



Analysed By

A. Behera

Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Verified By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

TEST REPORT

NABL ULR NO : TC1717826000000462
 Test Report No : 122 | 080022B
 Issue Date : 28-Jan-2026
 Sample Registration No : KLPL/1/26/ENVN/00207
 Amendment No : -
 Amendment Date : -



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 22-Jan-2026 Commenced On 22-Jan-2026 Completion On: 27-Jan-2026

Sample Description : AMBIENT AIR
 Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
 Sample Identification : AMBIENT AIR
 Batch No , Lot No : NA MFG Date NA EXP Date: NA
 Received Quantity : 1 NO Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK NEAR WAGAN GATE, DATE-21.01.2026
 Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER

i	Arsenic (as As)	ng/m ³	6	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
ii	Benzo (a) Pyrene (BaP)	ng/m ³	1	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07: 2019
iii	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	4	0.77	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19: 2019
iv	Lead (as Pb)	µg/m ³	1	<0.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
v	Nickel (Ni)	ng/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vi	Nitrogen Dioxide (NO2)	µg/m ³	80	14.05	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-6): 2006
vii	Ozone (O3) (01 Hrs.)	µg/m ³	180	8.4	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-13: 2019
viii	Particulate Matter (PM10)	µg/m ³	100	77.09	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-23): 2006





KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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Test Report No : 122 | 080022B
Sample Registration No : KLPL/1/26/ENVN/00207

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
ix	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	60	34.34	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02: 2017
x	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	9.81	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-2): 2001
xi	Ammonia (as NH ₃)	$\mu\text{g}/\text{m}^3$	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05: 2017

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Testing : Room Temp(°C)- 24-28 °C, Humidity : 28-30%



N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised Signatory

A. Behera

Jena

Debasis Biswal

Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

+91 9861463904 M: kalyanilab@yahoo.co.in

TEST REPORT

Test Report No : 122 NI 080022B

Issue Date : 28-Jan-2026

Sample Registration No : KLPL/1/26/ENVN/00207

Amendment No : -

Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 22-Jan-2026 Commenced On 22-Jan-2026 Completion On: 27-Jan-2026

Sample Description : AMBIENT AIR

Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Identification : AMBIENT AIR

Batch No , Lot No : NA

MFG Date NA

EXP Date: NA

Received Quantity : 1 NO

Sample Collection Location, & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK

NEAR WAGAN GATE, DATE-21.01.2026

Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER

i	Benzene (C6 H6)	µg/m ³	5	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
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Opinion & Interpretation: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : -

Environmental Condition During Testing : Room Temp(°C)- 24-25 °C, Humidity : 28-30%

N.B. : The results relate only to samples tested and test parameters



Analysed By

Verified By

Authorised Signatory

A. Behera
Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

TEST REPORT

NABL ULR NO : TC1717826000000916
 Test Report No : 239 | 112044F
 Issue Date : 24-Feb-2026
 Sample Registration No : KLPL/2/26/ENVN/00276
 Amendment No : --
 Amendment Date : --



Reference : P.O NO-FPPL/3100006601, DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 16-Feb-2026 Commenced On 16-Feb-2026 Completion On: 20-Feb-2026

Sample Description : STACK EMISSION
 Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
 Sample Identification : STACK
 Batch No., Lot No : NA MFG Date NA EXP Date: NA
 Received Quantity : 1 NO Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ESP BOILER, DATE-14.02.2026
 Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER

i	Carbon Dioxide (CO ₂)	%	--	12	--	KLPL/SOP/AIR-20-2019
ii	Carbon Monoxide (CO) (01 Hrs.)	%	--	47	--	KLPL/SOP/AIR-20-2019
iii	Mercury (as Hg)	mg/Nm ³	0.03	<0.003	As per CTO	KLPL/SOP/STACK-HM-21-2023
iv	Oxides of Nitrogen	mg/Nm ³	450	166.8	As per CTO	KLPL/SOP/AIR-20-2019
v	Particulate Matter	mg/Nm ³	50	47.88	As per CTO	IS 11255(Part 1): 1985,IA-2014
vi	Sulphur Dioxide (SO ₂)	mg/Nm ³	600	113.7	As per CTO	KLPL/SOP/AIR-20-2019





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Test Report No : 239 | 112044F
Sample Registration No : KLPL/2/26/ENVN/00276

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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Opinion & Interpretation:

Any unusual feature observed during determination : NIL
 Customer information if any : NIL
 Conformity statement as per decision rule, if applicable : --
 Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised Signatory

A. Behera

[Signature]

Rekha Nayak

Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Dr. Rekha Nayak 24/02/2026
For Kalyani Laboratories Pvt. Ltd.



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



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TEST REPORT

Test Report No : 239 NI 112044F
Issue Date : 24-Feb-2026
Sample Registration No : KLPL/2/26/ENVN/00276
Amendment No : --
Amendment Date : --

Reference : P.O NO-FPPL/3100006601, DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 16-Feb-2026 Commenced On 16-Feb-2026 Completion On: 20-Feb-2026

Sample Description : STACK EMISSION
Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Sample Identification : STACK
Batch No, Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : 1 NO Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ESP BOILER, DATE: 14.02.2026
Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Quantity of Gas Flow	Nm ³ /hr	--	278508.65	--	IS 11255(Part-1):1985,RA,2019
ii	Stack Temperature in Deg kelvin	--	--	442	--	IS 11255(Part-1):1985,RA,2019
iii	Velocity	m/sec	--	8.89	--	IS 11255(Part-1):1985,RA,2019

Opinion & Interpretation:

Any unusual feature observed during determination : NIL
 Customer information if any : NIL
 Conformity statement as per decision rule, if applicable : --
 Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity : 30-60%
 N.B. : The results relate only to samples tested and test parameters



Analysed By
 A. Behera
 Mr. Abhirup Behera
 For Kalyani Laboratories Pvt. Ltd.

Verified By
 P. Jena
 Mr. Paramesh Jena
 For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory
 Dr. Rekha Nayak
 24/02/2026
 For Kalyani Laboratories Pvt. Ltd.

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

TEST REPORT

NABL ULR NO : TC1717826000000913
 Test Report No : 256 | 109646F
 Issue Date : 24-Feb-2026
 Sample Registration No : KLPL/2/26/ENVN/00256
 Amendment No : --
 Amendment Date : --



Reference : P.O NO-FPPL/3100006601, DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 16-Feb-2026 Commenced On 16-Feb-2026 Completion On: 20-Feb-2026

Sample Description : AMBIENT AIR
 Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
 Sample Identification : AMBIENT AIR
 Batch No, Lot No : NA MFG Date : NA EXP Date: NA
 Received Quantity : 1 NO Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ADMIN BUILDING, DATE-14.02.2026
 Sampling Procedure : KLPL/QSP-07 & KLPL/SOP-05



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Arsenic (as As)	ng/m ³	6	2.98	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
ii	Benzo (a) Pyrene (BaP)	ng/m ³	1	0.0057	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07: 2017
iii	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	4	0.7	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-16: 2017
iv	Lead (as Pb)	µg/m ³	1	0.0239	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
v	Nickel (Ni)	ng/m ³	20	7.62	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vi	Nitrogen Dioxide (NO ₂)	µg/m ³	80	12.63	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-6): 2006
vii	Ozone (O ₃) (01 Hrs.)	µg/m ³	180	6.4	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-11: 2017
viii	Particulate Matter (PM ₁₀)	µg/m ³	100	70.75	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-2): 2006



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Test Report No : 256 | 109646F

Sample Registration No : KLPL/2/26/ENVN/00256

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
ix	Particulate Matter (PM2.5)	µg/m ³	60	25.32	Requirement is as per standard specification NAAQS-2009	KLPL/SOP/AIR-02-2017
x	Sulphur Dioxide (SO2)	µg/m ³	80	7.23	Requirement is as per standard specification NAAQS-2009	IS 18211 Part-21-2003
xi	Ammonia (as NH3)	µg/m ³	400	2.1	Requirement is as per standard specification NAAQS-2009	KLPL/SOP/AIR-05-2017

Opinion & Interpretation:

Any unusual feature observed during determination : NIL
 Customer information if any : NIL
 Conformity statement as per decision rule, if applicable : --
 Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters



Analysed By

Verified By

Authorised Signatory

A. Behera
 Mr. Abhirup Behera
 For Kalyani Laboratories Pvt. Ltd.

P. Jena
 Mr. Paramesh Jena
 For Kalyani Laboratories Pvt. Ltd.

Rekha Nayak
 Dr. Rekha Nayak 54/02/3036
 For Kalyani Laboratories Pvt. Ltd.

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



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TEST REPORT

Test Report No : 256 NI 109646F
Issue Date : 24-Feb-2026
Sample Registration No : KLPL/2/26/ENVN/00256
Amendment No : --
Amendment Date : --

Reference : P.O NO-FPPL/3100006601, DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 16-Feb-2026 Commenced On 16-Feb-2026 Completion On: 20-Feb-2026

Sample Description : AMBIENT AIR
Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Identification : AMBIENT AIR
Batch No., Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : 1 NO Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHER KUMAR BARIK ADMIN BUILDING, DATE-14.02.2026
Sampling Procedure : KLPL/QSP-07 & KLPL/SOP-05

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
1	Benzene (C6 H6)	µg/m ³	5	<1.0	Requirement is as per standard specification NAAQS 2009	KLPL/SOP/AIR-07, Issue No-01-2019

Opinion & Interpretation:

Any unusual feature observed during determination : NIL
 Customer information if any : NIL
 Conformity statement as per decision rule, if applicable : --
 Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity : 30-60%
 N.B. : The results relate only to samples tested and test parameters

Analysed By Mr. Abhirup Behera For Kalyani Laboratories Pvt. Ltd.	Verified By Mr. Paramesh Jena For Kalyani Laboratories Pvt. Ltd.	Authorised Signatory Dr. Rekha Nayak For Kalyani Laboratories Pvt. Ltd.
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***** End of Test Report *****



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TEST REPORT

NABL ULR NO : TC1717826000000914
 Test Report No : 257 | 10970470
 Issue Date : 24-Feb-2026
 Sample Registration No : KLPL/2/26/ENVN/00257
 Amendment No : --
 Amendment Date : --



Reference : P.O NO-FPPL/3100006601, DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 16-Feb-2026 Commenced On : 16-Feb-2026 Completion On: 20-Feb-2026

Sample Description : AMBIENT AIR
 Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
 Sample Identification : AMBIENT
 Batch No , Lot No : NA MFG Date : NA EXP Date: NA
 Received Quantity : 1 NO Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK NEAR MAIN GATE, DATE-14.02.2026
 Sampling Procedure : KLPL/QSP-07 & KLPL/SOP-05



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
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CHEMICAL PARAMETER						
i	Arsenic (as As)	ng/m ³	6	4.08	Requirement is as per standard specification NAAQS 2009	KLPL/SOP/AIR-10: 2017
ii	Benzo (a) Pyrene (BaP)	ng/m ³	1	0.0059	Requirement is as per standard specification NAAQS 2009	KLPL/SOP/AIR-03: 2019
iii	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	4	0.65	Requirement is as per standard specification NAAQS 2009	KLPL/SOP/AIR-05: 2019
iv	Lead (as Pb)	µg/m ³	1	0.0547	Requirement is as per standard specification NAAQS 2009	KLPL/SOP/AIR-10: 2017
v	Nickel (Ni)	ng/m ³	20	9.47	Requirement is as per standard specification NAAQS 2009	KLPL/SOP/AIR-10: 2017
vi	Nitrogen Dioxide (NO ₂)	µg/m ³	80	13.87	Requirement is as per standard specification NAAQS 2009	IS 5182(Pw1-5): 2006
vii	Ozone (O ₃) (01 Hrs.)	µg/m ³	180	5.2	Requirement is as per standard specification NAAQS 2009	KLPL/SOP/AIR-13: 2019
viii	Particulate Matter (PM10)	µg/m ³	100	65.34	Requirement is as per standard specification NAAQS 2009	IS 5182(Pw1-23): 2006





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Test Report No : 257 | 10970470

Sample Registration No : KLPL/2/26/ENVN/00257

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
ix	Particulate Matter (PM2.5)	µg/m ³	60	29.66	Requirement is as per standard specification NAAQS-2009	KLPL/SOP/AIR-02-2017
x	Sulphur Dioxide (SO ₂)	µg/m ³	80	8.87	Requirement is as per standard specification NAAQS-2009	IS 5182(Part-2)-2001
xi	Ammonia (as NH ₃)	µg/m ³	400	2.7	Requirement is as per standard specification NAAQS-2009	KLPL/SOP/AIR-01-2017

Opinion & Interpretation: -

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule, if applicable : -

Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters

Analysed By

Verified By

Authorised Signatory

A. Behera

Rekha Nayak

Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Dr. Rekha Nayak 5/1/2026
For Kalyani Laboratories Pvt. Ltd.



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



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TEST REPORT

Test Report No : 257 N| 10970470

Issue Date : 24-Feb-2026

Sample Registration No : KLPL/2/26/ENVN/00257

Amendment No : --

Amendment Date : --

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA

Date of receipt : 16-Feb-2026 Commenced On 16-Feb-2026 Completion On: 20-Feb-2026

Sample Description : AMBIENT AIR

Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Identification : AMBIENT

Batch No. Lot No : NA MFG Date NA EXP Date: NA

Received Quantity : 1 NO Sample Collection Location. & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK NEAR MAIN GATE, DATE-14.02.2026

Sampling Procedure : KLPL/QSP-07 & KLPL/SOP-05

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
1	Benzene (C6 H6)	µg/m ³	5	0.62	Requirement is as per standard specification NAAQS,2009	KLPL/SOP/AIR-07,Issue No.01/2019

Opinion & Interpretation: -

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule, if applicable : -

Environmental Condition During Testing : Room Temp(°C)- 28-30 °C. Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters

Analysed By

A. Behera
Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Verified By

P. Jena
Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Rekha Nayar
Dr. Rekha Nayar
For Kalyani Laboratories Pvt. Ltd.



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



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TEST REPORT

NABL ULR NO : TC1717826000001202
Test Report No : 346 | 17305B5
Issue Date : 02-Apr-2026
Sample Registration No : KLPL/3/26/ENVN/00404
Amendment No : -
Amendment Date : -



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 28-Mar-2026 Commenced On 28-Mar-2026 Completion On: 31-Mar-2026

Sample Description : AMBIENT AIR
Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Identification : AMBIENT AIR
Batch No , Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : 1 NO Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ADMIN BUILDING, DATE-27.03.2026
Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Arsenic (as As)	ng/m ³	6	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
ii	Benzo (a) Pyrene (BaP)	ng/m ³	1	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07: 2019
iii	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	4	0.71	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19: 2019
iv	Lead (as Pb)	µg/m ³	1	<0.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
v	Nickel (Ni)	ng/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vi	Nitrogen Dioxide (NO2)	µg/m ³	80	14.05	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-6): 2006,RA:2022
vii	Ozone (O3) (01 Hrs.)	µg/m ³	180	6.5	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-13: 2019





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TEST REPORT

Test Report No : 346 N| 17305B5
Issue Date : 02-Apr-2026
Sample Registration No : KLPL/3/26/ENVN/00404
Amendment No : -
Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 28-Mar-2026 Commenced On 28-Mar-2026 Completion On: 31-Mar-2026

Sample Description : AMBIENT AIR
Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Identification : AMBIENT AIR
Batch No , Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : 1 NO Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK ADMIN BUILDING, DATE-27.03.2026
Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Benzene (C6 H6)	µg/m ³	5	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019

Opinion & Interpretation:

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity : 30-60%
N.B. : The results relate only to samples tested and test parameters



Analysed By

Verified By

Authorised Signatory

A. Behera
Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Pam
Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Rekha Nayak
Dr. Rekha Nayak 21/04/2026
For Kalyani Laboratories Pvt. Ltd.

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



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TEST REPORT

NABL ULR NO : TC1717826000001203
Test Report No : 347 | 17315B6
Issue Date : 02-Apr-2026
Sample Registration No : KLPL/3/26/ENVN/00405
Amendment No : -
Amendment Date : -



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 28-Mar-2026 Commenced On 28-Mar-2026 Completion On: 31-Mar-2026

Sample Description : AMBIENT AIR
Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Identification : AMBIENT AIR
Batch No , Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : 1 NO Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK NEAR MAIN GATE, DATE-27.03.2026
Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07



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Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Arsenic (as As)	ng/m ³	6	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
ii	Benzo (a) Pyrene (BaP)	ng/m ³	1	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07: 2019
iii	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	4	0.67	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19: 2019
iv	Lead (as Pb)	µg/m ³	1	<0.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
v	Nickel (Ni)	ng/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vi	Nitrogen Dioxide (NO2)	µg/m ³	80	12.50	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-6): 2006,RA:2022
vii	Ozone (O3) (01 Hrs.)	µg/m ³	180	7.8	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-13: 2019





KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

+91 9861463904 M: kalyanilab@yahoo.co.in



Test Report No : 347 | 17315B6
Sample Registration No : KLPL/3/26/ENVN/00405

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
viii	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	100	67.62	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-23): 2006,RA:2022
ix	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	60	28.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02: 2017
x	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	8.62	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-2): 2001,RA:2022
xi	Ammonia (as NH ₃)	$\mu\text{g}/\text{m}^3$	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05: 2017

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters



Analysed By

A. Behera
Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Verified By

Jena
Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Rekha Nayak
Dr. Rekha Nayak 21/4/2026
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

+91 9861463904 M: kalyanilab@yahoo.co.in

TEST REPORT

Test Report No : 347 NI 17315B6
Issue Date : 02-Apr-2026
Sample Registration No : KLPL/3/26/ENVN/00405
Amendment No : -
Amendment Date : -
Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 28-Mar-2026 Commenced On 28-Mar-2026 Completion On: 31-Mar-2026
Sample Description : AMBIENT AIR
Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Identification : AMBIENT AIR
Batch No , Lot No : NA MFG Date NA EXP Date: NA
Received Quantity : 1 NO Sample Collection Location, & Date :
Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK NEAR MAIN GATE, DATE-27.03.2026
Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Benzene (C6 H6)	µg/m ³	5	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule , if applicable : -
Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity : 30-60%
N.B. : The results relate only to samples tested and test parameters



Analysed By

A. Behera
Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Verified By

P. Jena
Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Rekha Nayak
Dr. Rekha Nayak 21/04/2026
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

+91 9861463904 M: kalyanilab@yahoo.co.in

TEST REPORT

NABL ULR NO : TC1717826000001204
 Test Report No : 348 | 17325B7
 Issue Date : 02-Apr-2026
 Sample Registration No : KLPL/3/26/ENVN/00406
 Amendment No : -
 Amendment Date : -



Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
 Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
 Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
 Date of receipt : 28-Mar-2026 Commenced On 28-Mar-2026 Completion On: 31-Mar-2026

Sample Description : AMBIENT AIR
 Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
 Sample Identification : AMBIENT AIR
 Batch No , Lot No : NA MFG Date NA EXP Date: NA
 Received Quantity : 1 NO Sample Collection Location, & Date :
 Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK NEAR WAGAN GATE, DATE-27.03.2026
 Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07



Scan this QR Code to view NABL Certificate & Scope of Accreditation for Kalyani Laboratories Pvt. Ltd, Bhubaneswar, Odisha, India.

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Arsenic (as As)	ng/m ³	6	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
ii	Benzo (a) Pyrene (BaP)	ng/m ³	1	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07: 2019
iii	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	4	0.76	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19: 2019
iv	Lead (as Pb)	µg/m ³	1	<0.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
v	Nickel (Ni)	ng/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10: 2017
vi	Nitrogen Dioxide (NO2)	µg/m ³	80	16.19	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-6): 2006,RA:2022
vii	Ozone (O3) (01 Hrs.)	µg/m ³	180	11.8	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-13: 2019





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Test Report No : 348 | 17325B7
Sample Registration No : KLPL/3/26/ENVN/00406

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
viii	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	100	76.64	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-23): 2006,RA:2022
ix	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	60	32.47	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02: 2017
x	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	9.89	Requirement is as per standard specification NAAQS:2009	IS 5182(Part-2): 2001,RA:2022
xi	Ammonia (as NH ₃)	$\mu\text{g}/\text{m}^3$	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05: 2017

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Conformity statement as per decision rule, if applicable : --
Environmental Condition During Testing : Room Temp(°C)- 28-30 °C, Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters



Analysed By

Verified By

Authorised Signatory

A. Behera

Rekha Nayak

Mr. Abhirup Behera
For Kalyani Laboratories Pvt. Ltd.

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.

Dr. Rekha Nayak 21/4/2026
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

+91 9861463904 M: kalyanilab@yahoo.co.in

TEST REPORT

Test Report No : 348 NI 17325B7

Issue Date : 02-Apr-2026

Sample Registration No : KLPL/3/26/ENVN/00406

Amendment No : -

Amendment Date : -

Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

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Date of receipt : 28-Mar-2026 Commenced On 28-Mar-2026 Completion On: 31-Mar-2026

Sample Description : AMBIENT AIR

Package Type : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Identification : AMBIENT AIR

Batch No , Lot No : NA MFG Date NA EXP Date: NA

Received Quantity : 1 NO Sample Collection Location, & Date :

Sample Collected By : BY KLPL - MR. SUDHIR KUMAR BARIK NEAR WAGAN GATE, DATE-27.03.2026

Sampling Procedure : KLPL/SOP/AIR-05 AND KLPL/QSP-07

Sl	Parameters	Unit of Measurement	Requirement	Result	Standard	Test Method
CHEMICAL PARAMETER						
i	Benzene (C6 H6)	µg/m ³	5	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Conformity statement as per decision rule , if applicable : -

Environmental Condition During Testing : Room Temp(°C) : 28-30 °C, Humidity : 30-60%

N.B. : The results relate only to samples tested and test parameters



Analysed By

Verified By

Authorised Signatory

A. Behera
Mr. Abhirup Behera

Mr. Paramesh Jena

Dr. Rekha Nayak
21/04/2026

For Kalyani Laboratories Pvt. Ltd.

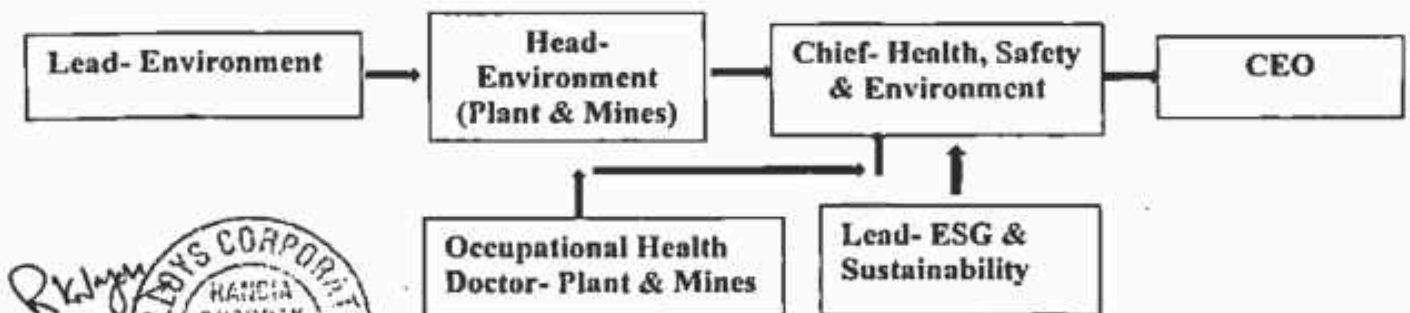
For Kalyani Laboratories Pvt. Ltd.

For Kalyani Laboratories Pvt. Ltd.

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

STATUS OF ENVIRONMENT MANAGEMENT CELL IN M/S FERRO ALLOYS CORPORATION LTD.
A. Details of Persons available in the Cell:

Sl. No	Name of the Persons	Designation	Duty assigned	Mob. No / Email	Qualification
01	Ranjan Nayak	Chief-HSE & S	Health, Safety, Environment & Sustainability	8306005372 ranjan.nayak@vedanta.co.in	M.Sc. in Environmental Science, PDIS
02	Biswa Bhusan Panigrahi	Head Environment (Plant & Mines)	Env. Management, ESG & Sustainability	7735738480 biswabhusan.panigrahi@vedanta.co.in	M.Sc. in Environmental Science, PDIS
03	Somnath Pal	Lead-Environment (Plant)	Env. management & Pollution control	9064376724 somnath.pal@vedanta.co.in	M.Tech in Environmental Engineering
04	Arani Samanta	Lead-Environment (Mines)	Env. management & Pollution control	9748772262 arani.samanta@vedanta.co.in	M.Tech in HSE
05	Avik Biswas	Lead- ESG & Sustainability	ESG & Sustainability	8617290368 avik.biswas@vedanta.co.in	Postgraduate Diploma in Forestry Management
06	Nilesh Pratap Singh	Lead-Sustainability	ESG & Sustainability	8455002075 nilesh.singh1@vedanta.co.in	Postgraduate Diploma in Sustainability Management
07	Dr Swati Jaiswar	Medical Officer (Plant)	Occupational Health	7536073463 ohc.facor@vedanta.co.in	MBBS, AFIH, BLS, ACLS Trainer, ILO
08	Dr Jaganath Sukla	Medical Officer (Mines)	Occupational Health	9777118260 ohc.ostapal@vedanta.co.in	MBBS, AFIH

B. Reporting system of the Environment Management Cell (Please enclose Organization Chart).



Ranjan Nayak
 Chief HSE & S Officer

Date: 02/04/2026
 Bhadrak, Odisha

M/s. Ferro Alloys Corporation Ltd. (A subsidiary of Vedanta Ltd.)

Registered Office:

Plot No. 1, P. Nagar, PO. Randa, Dist. Bhadrak, Odisha, India - 756 135

Phone: +91 6784 240320/240347. Email: facor.mines@vedanta.co.in / facor.ccp@vedanta.co.in

Website: www.ferroalloys.com | CIN: 1445201OR195591CORRANO

Ref. No: FACL/BDK/SPCB/091/2025-26
Date: 29.09.2025

To,

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

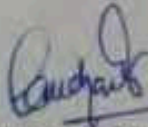
Sub: **Submission of Environmental Statement for the year 2024-25 by M/s Ferro Alloys Corporation Limited (Power Plant), Randia, Bhadrak.**

Sir,

With reference to the above cited subject, please find enclosed copy of Environmental Statement for the financial year ending 31st March,2025 in **Form-V** by M/s Ferro Alloys Corporation Limited (Power Plant) for your kind perusal.

Thanking you,

Yours faithfully,
For **Ferro Alloys Corporation Limited**



Girish Chandra Mohanty
Factory Manager-PP

Encl: As above

Copy to: The Regional Officer, SPCB, Balasore.

M/s. Ferro Alloys Corporation Ltd. (A subsidiary of Vedanta Ltd.)

Registered Office:

D.P. Nagar, PO : Randia, Dist.: Bhadrak, Odisha, India - 756 135

T +91-6784 240320/240347, Email: facor.mines@vedanta.co.in / facor.ccp@vedanta.co.in

Website: www.facorgroup.in, CIN: U45201OR1955PLC008400

**ENVIRONMENTAL STATEMENT
REPORT**

**FOR THE FINANCIAL YEAR
2024-25**

IN RESPECT OF

**FERRO ALLOYS CORPORATION LIMITED
(POWER PLANT)**

**Randia, Bhadrak,
Odisha.**



FORM - V
(See Rule - 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2024-25

PART - A

01. Name and address of the owner/occupier of the industry operation : **Mr. Pankaj Kumar Sharma**
Chief Executive Officer
M/s. Ferro Alloys Corporation Limited
(Power Plant)
At:D.P.Nagar, PO:Randia,
District - Bhadrak-756135, Odisha.
02. Industry Category : Red category
:
Primary (STC Code)
Secondary (SIC code)
03. Production Capacity : Captive Power Plant - 100 MW
04. Year of Establishment : July'2011
05. Date of last Environmental Statement submitted : 28.09.2024

PART - B

WATER CONSUMPTION & RAW MATERIAL CONSUMPTION

1. <u>Water Consumption</u>	<u>M³/day (Max.)</u>
Process	102
Industrial Cooling	3806
Domestic (Potable)	59

2. Process Water Consumption

Name of the Products	Generation		Process water consumption / unit of Output	
	23-24	24-25	23-24	24-25
Power	290536 MWH	438682 MWH	3.31 m ³ /MW	3.35 m ³ /MW

3. Raw Material Consumption

Name of raw materials	Name of the product	Consumption of raw materials / unit of product output	
		23-24	24-25
Coal	Power	0.924 MT/MW	0.955 MT/MW
HSD	Power	32 KL	67.05 KL

PART - C

Pollution discharged to environment / unit of output (Parameters as specified in the consent issued)

A: WATER

No pollutant is discharged with water as the plant follows Zero Liquid Discharge Facility.

B. AIR

SLNo.	Location	Pollutant concentration		
		PM (mg/Nm ³)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)
1	ESP outlet of CFBC Boiler	43	160	126
		CO ₂ (%)	CO (%)	Hg (%)
		8.1	<0.001	0.012



PART - D

HAZARDOUS WASTE

(As specified under hazardous waste management and handling rules, 1989)

Hazardous Waste	Total Quantity	
	23-24	24-25
Used Oil	0 KL	10.19 KL
Waste containing Oil	0T	0T
Spent Resin	0 KL	0 KL
ETP Chemical Sludge	0 MT	0 MT
Empty Containers	0.98 MT	0.98 MT

PART - E

SOLID WASTE

Source	Total Quantity (MT)	
	23-24	24-25
Fly ash from Silos	100607	166029
Bottom ash from Boiler	16151	29568

PART - F

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

Solid Waste	Total Quantity (24-25)	Characteristics of fly ash	Remarks
Fly ash & Bottom Ash	195597 MT	Al ₂ O ₃ - 23.9% Arsenic (As) - <0.005 Mg/Kg Cadmium <0.005 Mg/kg Calcium (As CaO)- 7.5% Chromium (as Cr) - 2.1 Mg/kg Fe ₂ O ₃ - 4.25% Lead (Pb) - 0.13 Mg/kg MgO - 1.6% Beryllium (as Be) <0.005 Mg/kg Mercury (as Hg) <0.005 Mg/kg SiO ₂ - 60.6 % Barium (as Ba) <0.005 Mg/kg Nikel (as Ni)-0.17 Mg/kg	We have provided 3 nos. of ash silo of 800M ³ volume each & 1 no bed ash silo for pneumatic ash conveying to control fugitive emission. Then ash is moist with 15 to 20% of recycle water in ash silo and unloaded from silo into trucks. Fly ash is being utilized in ash brick manufacturing plants and bottom ash is being used for low-lying development.

PART-G

Impact of the pollution abatement measures taken for the conservation of natural resources and on the cost of production.

1. Ferro Alloys Corporation Ltd. (Power Plant) has taken adequate pollution control measures at source level, so that the operation of the plant does not have any adverse impact on natural resources and the environment.
2. High efficiency electro-static precipitators have been installed in CFBC boiler to control the particulate matter emission within the permissible limit.
3. We have installed 10KLD STP for sewage water treatment and recycling the water in greenbelt development.
4. Similarly, 1000KLD Surface Runoff Treatment Plant has been installed to treat all runoff water inside the power plant and charge chrome plant to achieve Zero Liquid Discharge.
5. To ensure cleanliness of outside public roads as well as internal roads, a Wheel washing system is in operation to clean the wheel of vehicles.
6. Adequate green belt has been developed inside the plant premises to act as a barrier for noise and dust pollution.
7. All internal roads have been concreted to reduce the fugitive dust emission inside the plant premises.
8. In power plant, fixed and flexible water sprinkling systems have been provided at various dusts generating areas such as raw material carrying conveyer, coal circuit, rotary breaker etc. and also 1 no of mist canyon attached with fire tender (capacity of 3KL) has been engaged for sprinkling of water at raw material yard, ash disposal site and inside & outside the road of the factory.
9. Housekeeping has been taken on top priority and specific manpower has been engaged on daily basis for maintaining neat & clean environment in the plant premises.
10. One Mechanical Road Sweeping Machine has been deployed for effective cleanliness of inside roads.



PART- II

Additional measures / investment proposal for environmental protection including abatement of pollution

Expenditure for Environmental Protection FY 2024-25

Sl. No.	Project Description	Amount (INR)
i	AMC for AAQMS & CEMS & data communication	4,92,000
ii	Operation & Maintenance expenditure on ESP	14,00,000
iii	Energy consumption cost for ESP, CHP Dust Extraction & Dust Suppression System	35,85,615
iv	Performance Improvement and maintenance of Effluent Treatment Plant	14,75,408
v	Labor Engagement for housekeeping & Plantation maintenance work	13,05,404
vi	Engagement of Truck mounted Mist cannon	25,48,661
vii	Operational & Maintenance of Road sweeping machine	18,28,926
viii	Ash Handling expenses	21,97,777
ix	Operation & Maintenance of STP	1,98,781
x	Environment Monitoring Expenses (Air, Water, Waste, Noise etc)	2,46,389
xi	AMC for surveillance system (HD IP Camera)	1,21,200
xii	Calibration of Flowmeters	2,00,000

PART - I

Any other particulars for improving the quality of the environment

Ferro Alloys Corporation Limited (Power Plant) has taken various initiatives for abatement of pollution control and environment protection measures. We have installed 10KLD STP for sewage water treatment and recycle the water in greenbelt development. Similarly, 1000KLD Surface Runoff Treatment Plant has been installed to treat all runoff water inside the CPP & CCP plant to achieve Zero Liquid Discharge. Power Plant is continuously putting effort into achieving 100% ash utilization for making fly ash bricks and low-lying area development. Fly ash

Fly ash bricks are utilized in our construction activities to promote circular economy. We have engaged mist canyon and mechanized road sweeping machine to control fugitive emissions. We are continuously developing greenbelt wherever open space is available to improve plant beautification as well to act as a barrier for prevention and control of pollution.



ସର୍ବସାଧାରଣ ବିଜ୍ଞପ୍ତି

ଏଡ଼୍‌ହାରା ସର୍ବସାଧାରଣଙ୍କ ଅବଗତ କରି ନିମ୍ନ ଲିଖିତ ବିଷୟରେ ବିଶେଷ ଧ୍ୟାନ ଦେବାକୁ ଯୋଗାଇ ଦିଆଯାଇଅଛି ଯେ, ମେସର୍ସ ଫେକର ପାଣ୍ଡାଲ ଲିମିଟେଡ୍, ଡି.ପି.ନଗର, ରାହିଆ, ଭଦ୍ରକରେ ଜ୍ୟୋତ୍ସ୍ନାବିହାରୀ ଅର୍ମାଲ ପାଣ୍ଡାଲ ପ୍ଲାଣ୍ଟ ବସାଇବା ନିମିତ୍ତ ଜଙ୍ଗଲ ଓ ପରିବେଶ ସୁରକ୍ଷା ନିୟମାବଳୀରୁ ପରିବେଶ ସ୍ୱୀକୃତି ପ୍ରାପ୍ତ ହୋଇଅଛି । ଏହି ସ୍ୱୀକୃତିପ୍ରାପ୍ତ କରି ରାଜ୍ୟ ପରିବେଶ ନିୟମାବଳୀରେ ପ୍ରାପ୍ତ ହେବ ଏବଂ ଏହା ପରିବେଶ ନିୟମାବଳୀର ଡ୍ରୋପ୍‌ସାଇଟ୍ <http://envfor.nic.in> ରେ ମଧ୍ୟ ପ୍ରାପ୍ତ ହେବ ।

ସ୍ୱା./- ନିର୍ଦ୍ଦେଶକ

ଫେକର ପାଣ୍ଡାଲ ଲିମିଟେଡ୍

PUBLIC NOTICE

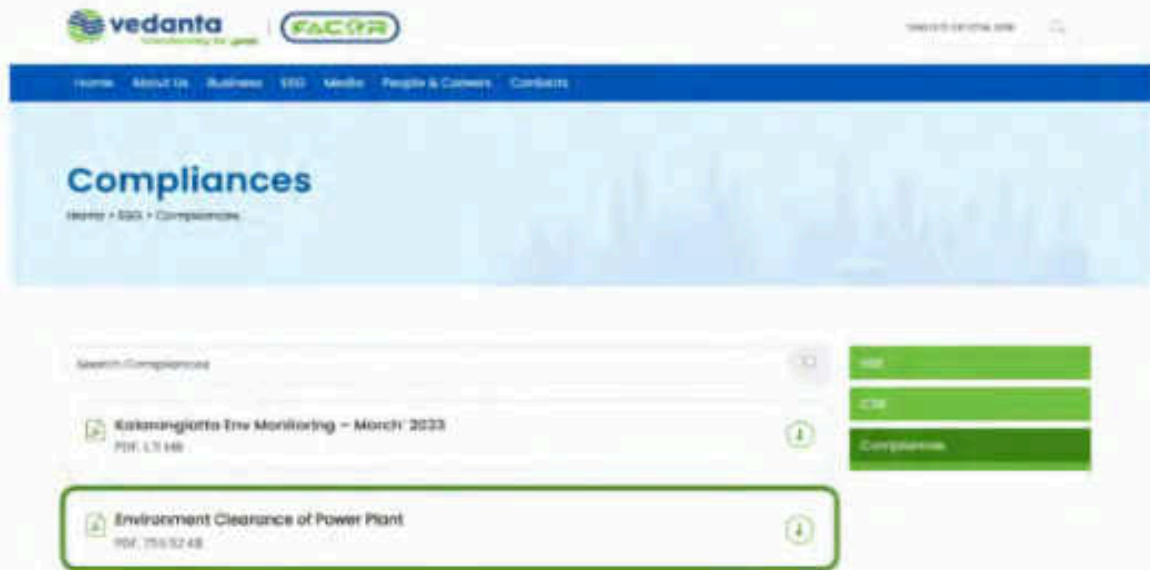
It is hereby informed to General Public that, **M/s. FACOR POWER LTD.**, accorded Environmental Clearance from Ministry of Environment and Forest for setting up a coal based thermal power plant at D.P. Nagar, Randia, Bhadrak and the copies of clearance letter are available with the state Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>.

Date - 11 - 05 - 2009.

THE SAMAJ.

[bottom corner of the page - 9]

Environment Clearance in Company Portal



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- Kakrapar Jaitra Ene Monitoring - March 2023
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- Environment Clearance of Power Plant**
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