

Ref: FACL/BDK/MOEF/035/2025-26
Dtd: 30.05.2025

To

Member Secretary

State Environment Impact Assessment Authority (SEIAA), ORISSA,
Ministry of Environment and Forest 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 2024 to March
2025.**

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 Ltd. (Power Plant) for the period from October 2024 to March 2025.

The monthly Environmental Monitoring data and other required information with respect to compliance of the said Six-Monthly compliance for the period from October 2024 to March 2025 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 for the period from October 2024 up to March 2025

Condition 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	All statutory clearance / approval / permission from the concerned authorities in respect of project have been obtained as and when required.



	respect of his project 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 emission 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 drawal of water from river Salandi has already obtained from Water Resource Dept., Govt. of Odisha on dated 27.12.2013.
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. Copy of monitoring report from April 2024 to Sept 2024 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 system 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 of 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 implemented to protect the ash dyke from getting breached.	Lining with HDPE sheet was done in Ash Pond. Grass turfing and plantation has done in ash pond dyke to avoid erosion.
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	There are two nos of reservoir of 290000 m3 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



	submitted to the SEIAA within six months.	
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 location plant layout shall be submitted to the SEIAA, Odisha.	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 . 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 conducted regularly. Mock drill Report enclosed 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.
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 to restrict the noise level below 75dBA. 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 enclosed herewith 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

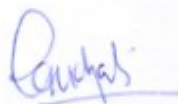


xxvi	Management and disposal of other solid waste and hazardous waste generated shall be done by the project proponent as per the provisions of the relevant statutory rules.	Management and disposal of other solid waste and hazardous waste generated are being done by the project proponent as per the provisions 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.
xxviii	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.
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).
xxxi	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-10 .
xxxiii	A copy of the clearance letter shall be sent by the proponent to concerned 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	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 -11

	the website of the company by the proponent.	
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 -12.
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.

Annexure-1

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

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

TEST REPORT

Test Report No	: KLPL/10/24/ENVN/00315	Issue Date	: 17-Oct-2024
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	: 09-Oct-2024	Commenced On	: 09-Oct-2024
		Completion On	: 17-Oct-2024
Sample Name	: FLUE GAS STACK MONITORING		
Sample Condition	: GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED		
Sample Collected By	: MR. SUDHIR KUMAR BARIK		
Ref.To Sampling Procedure	: KLPL/SOP/AIR-20		
Parameters	Unit	Standard Value	Results
Test Method			
Location & Date	: STACK ATTACHED TO ESP BOILER, DATE-08.10.2024		
Particulate Matter	mg/Nm ³	50	42.00
			IS 11255(Part-1):1985,RA:2019
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	--	<0.001
			KLPL/SOP/AIR-20:2019
Carbon Dioxide (CO2)	%	--	6.7
			KLPL/SOP/AIR-20:2019
Oxides of Nitrogen	mg/Nm ³	450	125.42
			KLPL/SOP/AIR-20:2019
Stack Temperature	Deg kelvin	--	452
			IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	9.17
			IS 11255(Part-1):1985,RA:2019
Quantity of Gas Flow	Nm ³ / hr	--	259729
			IS 11255(Part-1):1985,RA:2019
Mercury (as Hg)	mg/Nm ³	0.03	0.013
			KLPL/SOP/STACK-HM-21: 2023
Sulphur Dioxide as SO2	mg/Nm ³	600	136.32
			IS 11255(part-2):1985,RA:2019

Remarks

Any unusual feature observed during determination :NIL
The results relate only to samples tested and test parameters

Analysed By

Mr. Digambar Arukha
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



+91 9861463904



kalyanilab@yahoo.co.in

TEST REPORT

Test Report No	: KLPL/11/24/ENVN/00375	Issue Date	: 02-Dec-2024
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	: 23-Nov-2024	Commenced On	: 23-Nov-2024
		Completion On	: 30-Nov-2024
Sample Name	: FLUE GAS STACK MONITORING		
Sample Condition	: GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED		
Sample Collected By	: MR. SUDHIR KUMAR BARIK		
Ref.To Sampling Procedure	: KLPL/SOP/AIR-20		
Parameters	Unit	Standard Value	Results
Test Method			
Location & Date	: STACK ATTACHED TO ESP BOILER, DATE 23.11.2024		
Particulate Matter	mg/Nm ³	50	45.00
			IS 11255(Part-1):1985,RA:2019
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	--	<0.001
			KLPL/SOP/AIR-20:2019
Carbon Dioxide (CO ₂)	%	--	6.9
			KLPL/SOP/AIR-20:2019
Oxides of Nitrogen	mg/Nm ³	450	135.42
			KLPL/SOP/AIR-20:2019
Stack Temperature	Deg kelvin	--	461
			IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	9.64
			IS 11255(Part-1):1985,RA:2019
Quantity of Gas Flow	Nm ³ / hr	--	284826
			IS 11255(Part-1):1985,RA:2019
Mercury (as Hg)	mg/Nm ³	0.03	0.011
			KLPL/SOP/STACK-HM-21: 2023
Sulphur Dioxide as SO ₂	mg/Nm ³	600	156.32
			IS 11255(part-2):1985,RA:2019

Remarks

: -

Any unusual feature observed during determination :NIL
The results relate only to samples tested and test parameters

Analysed By

D. Arukha

Mr. Digambar Arukha
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

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

TEST REPORT

Test Report No	: KLPL/12/24/ENVN/00421	Issue Date	: 03-Jan-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	: 26-Dec-2024	Commenced On :	26-Dec-2024	
		Completion On:	31-Dec-2024	
Sample Name	: FLUE GAS STACK MONITORING			
Sample Condition	: GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED			
Sample Collected By	: MR. SUDHIR KUMAR BARIK			
Ref.To Sampling Procedure	: KLPL/SOP/AIR-20			
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : STACK ATTACHED TO ESP BOILER, DATE 24.12.2024				
Particulate Matter	mg/Nm³	50	43.00	IS 11255(Part-1):1985,RA:2019
Carbon Monoxide (CO) (01 Hrs.)	mg/m³	--	<0.001	KLPL/SOP/AIR-20:2019
Carbon Dioxide (CO2)	%	--	7.9	KLPL/SOP/AIR-20:2019
Oxides of Nitrogen	mg/Nm³	450	145.42	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg kelvin	--	449	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	9.95	IS 11255(Part-1):1985,RA:2019
Quantity of Gas Flow	Nm3 / hr	--	295826	IS 11255(Part-1):1985,RA:2019
Mercury (as Hg)	mg/Nm³	0.03	0.012	KLPL/SOP/STACK-HM-21: 2023
Sulphur Dioxide as SO2	mg/Nm³	600	176.32	IS 11255(part-2):1985,RA:2019

Remarks

Any unusual feature observed during determination :NIL
The results relate only to samples tested and test parameters

Analysed By

D. Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal

For Kalyani Laboratories Pvt. Ltd.

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

KLPL- 10021516B



KALYANI LABORATORIES PVT.LTD.

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



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

TEST REPORT

Test Report No	: KLPL/01/25/ENVN/00442	Issue Date	: 01-Feb-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	: 20-Jan-2025	Commenced On	: 20-Jan-2025
		Completion On	: 01-Feb-2025
Sample Name	: FLUE GAS STACK MONITORING		
Sample Condition	: GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED		
Sample Collected By	: MR. SUDHIR KUMAR BARIK		
Ref.To Sampling Procedure	: KLPL/SOP/AIR-20		
Parameters	Unit	Standard Value	Results
Location & Date	: STACK ATTACHED TO ESP BOILER, DATE-18.01.2025		
Particulate Matter	mg/Nm ³	50	42.00
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	--	<0.001
Carbon Dioxide (CO ₂)	%	--	6.7
Oxides of Nitrogen	mg/Nm ³	450	125.42
Stack Temperature	Deg kelvin	--	452
Velocity	m/sec	--	9.17
Quantity of Gas Flow	Nm ³ / hr	--	259729
Mercury (as Hg)	mg/Nm ³	0.03	0.013
Sulphur Dioxide as SO ₂	mg/Nm ³	600	136.32

Remarks : -

Any unusual feature observed during determination :NIL
The results relate only to samples tested and test parameters

Analysed 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**

Test Report No	: KLPL/02/25/ENVN/00466	Issue Date	: 27-Feb-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	: 22-Feb-2025	Commenced On	: 22-Feb-2025
		Completion On	: 27-Feb-2025
Sample Name	: FLUE GAS STACK MONITORING		
Sample Condition	: GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED		
Sample Collected By	: MR. SUDHIR KUMAR BARIK		
Ref.To Sampling Procedure	: KLPL/SOP/AIR-20		

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : STACK ATTACHED TO ESP BOILER, DATE 21.02.2025				
Particulate Matter	mg/Nm ³	50	45.00	IS 11255(Part-1):1985,RA:2019
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	--	<0.001	KLPL/SOP/AIR-20:2019
Carbon Dioxide (CO ₂)	%	--	6.9	KLPL/SOP/AIR-20:2019
Oxides of Nitrogen	mg/Nm ³	450	135.42	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg kelvin	--	461	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	9.64	IS 11255(Part-1):1985,RA:2019
Quantity of Gas Flow	Nm ³ / hr	--	284826	IS 11255(Part-1):1985,RA:2019
Mercury (as Hg)	mg/Nm ³	0.03	0.011	KLPL/SOP/STACK-HM-21: 2023
Sulphur Dioxide as SO ₂	mg/Nm ³	600	156.32	IS 11255(part-2):1985,RA:2019

Remarks

Any unusual feature observed during determination :NIL
 The results relate only to samples tested and test parameters

Analysed By


 Miss. Liza Senapati
 For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory


 Dr. Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd.

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

KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

TEST REPORT

Test Report No : KLPL/03/25/ENVN/00507 **Issue Date** : 04-April-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 : 28-Mar-2024 **Commenced On** : 28-Mar-2024 **Completion On** : 04-April-2025
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure : KLPL/SOP/AIR-20

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : STACK ATTACHED TO ESP BOILER, DATE 27.03.2025				
Particulate Matter	mg/Nm ³	50	43.00	IS 11255(Part-1):1985,RA:2019
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	--	<0.001	KLPL/SOP/AIR-20:2019
Carbon Dioxide (CO ₂)	%	--	7.9	KLPL/SOP/AIR-20:2019
Oxides of Nitrogen	mg/Nm ³	450	145.42	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg kelvin	--	449	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	9.95	IS 11255(Part-1):1985,RA:2019
Quantity of Gas Flow	Nm ³ / hr	--	295826	IS 11255(Part-1):1985,RA:2019
Mercury (as Hg)	mg/Nm ³	0.03	0.012	KLPL/SOP/STACK-HM-21: 2023
Sulphur Dioxide as SO ₂	mg/Nm ³	600	176.32	IS 11255(part-2):1985,RA:2019

Remarks : -

Any unusual feature observed during determination :NIL
The results relate only to samples tested and test parameters

Analysed By

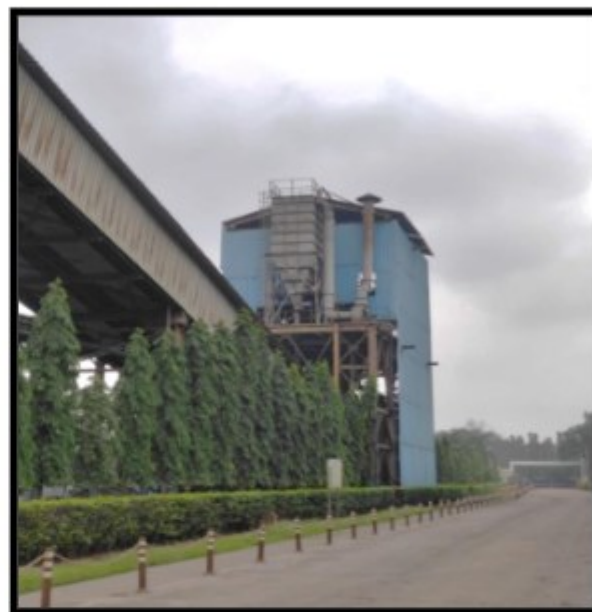
Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

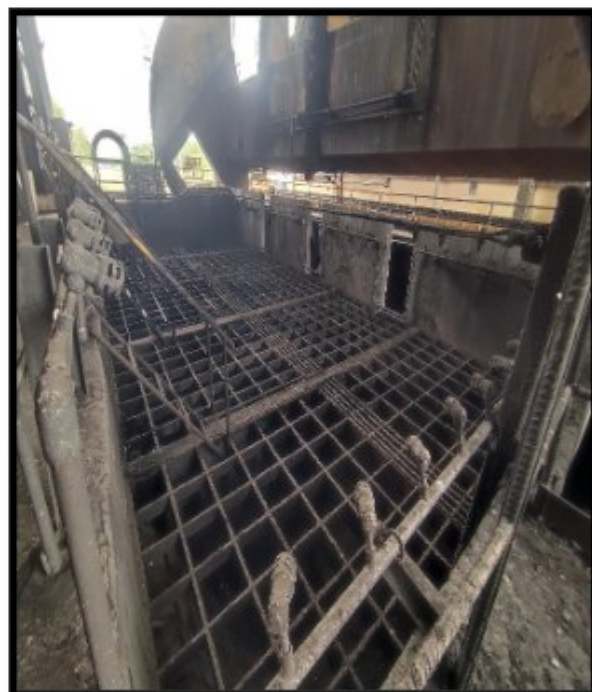
Dust Suppression Systems



Dedusting Units in Coal Handling Plant



Water Sprinklers in Coal Stock Area



Water Sprinklers in Wagon Tippler



TEST REPORT

Test Report No : KLPL/10/24/WATER/01725A

Issue Date : 17-Oct-2024

Amendment No : --

Amendment Date : --

Reference : PO NUMBER :4920059098,PO DATE :17.12.2022

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

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

Date of receipt : 09-Oct-2024 Commenced On : 09-Oct-2024 Completion On: 17-Oct-2024

Sample Description : DRINKING WATER (IS 10500:2012)

Form\Shape\Appearance : SEALED PET BOTTLE

Sample Identification : GROUND WATER

Batch No , Lot No : NOT APPLICABLE

MFG Date : NOT APPLICABLE EXP Date: NOT APPLICABLE

Received Quantity : 4 LITRE

Sample Collection Location, & Date :

Sample Collected By : MR. SUDHIR KUMAR BARIK

NEAR ASH POND -08.10.2024

Sampling Procedure if Any : KLPL/QSP-07

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
i	Bromoform	mg/l , max	0.1	<0.1	IS : 10500 : 2012	APHA 6232
ii	Dibromochloromethane	mg/l, Max	0.1	<0.1	IS : 10500 : 2012	APHA 24th Edition-2023 (6232)
iii	Chloroform	mg/l, Max	0.2	<0.2	IS : 10500 : 2012	APHA 24th Edition 6232
iv	Bromodichloromethane	mg/l, Max	0.06	<0.06	IS : 10500 : 2012	APHA 24th Edition 6232

BACTERIOLOGICAL QUALITY

i	Total Coliforms	MPN/100 ml	Shall not be detected in any 100ml sample	<2	IS : 10500 :2012	IS 1622:1981 RA 2009
ii	E.coli	MPN/100ml	Shall not be detected in any 100ml sample	<2	IS : 10500 : 2012	IS 1622:1981, RA 2009

CHEMICAL PARAMETER

i	Nitrate as NO3	mg/l, Max	45	0.5	IS : 10500 :2012	Cl.3.0 of IS 3025 (PART 34): 1988, RA 2019
ii	Ammonia	mg/l, Max	0.5	<0.03	IS : 10500 : 2012	IS:3025(Part-34) : 2012
iii	Calcium (as Ca)	mg/l, Max	75	40	IS : 10500 :2012	Cl.5.0 of IS 3025 (Part 40):1991, RA 2019
iv	Chloride (as Cl)	mg/l, Max	250	40	IS : 10500 :2012	IS 3025 (Part 32):1988, RA 2019
v	Copper (as Cu)	mg/l, Max	0.05	<0.02	IS : 10500 :2012	Cl.6.0 of IS 3025 (Part 42):1992, RA 2019
vi	Fluoride (as F)	mg/l, Max	1	0.33	IS : 10500 :2012	Cl.5.0 of IS 3025 (Part 60):2008, RA 2019



KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

Test Report No : KLPL/10/24/WATER/01725A

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
vii	Free residual chlorine	mg/l, Min	0.2	<0.05	IS : 10500 : 2012	Cl.3.0 of IS 3025 (Part 26):2021
viii	Iron (as Fe)	mg/l, Max	1	<0.05	IS : 10500 : 2012	Cl.6.0 of IS 3025 (Part 53):2003, RA 2019
ix	Magnesium (as Mg)	mg/l, Max	30	16.52	IS : 10500 : 2012	Cl.6.0 of IS 3025 (Part 46):1994, RA 2019
x	Manganese (as Mn)	mg/l, Max	0.1	<0.05	IS : 10500 : 2012	Cl.5.0 of IS 3025 (Part 59):2006, RA 2017
xi	Mineral oil	mg/l, Max	0.5	<0.5	IS : 10500 : 2012	Cl.5.0 of IS 3025 (Part- 39):2021
xii	Phenolic compounds (as C ₆ H ₅ OH)	mg/l, Max	0.001	<0.001	IS : 10500 : 2012	Cl.5.0 of IS 3025 (Part 43):1992, RA 2019
xiii	Selenium (as Se)	mg/l, Max	0.01	<0.005	IS : 10500 : 2012	Cl.7.0 of IS 3025 (Part 56):2003, RA 2019
xiv	Sulphate (as SO ₄)	mg/l, Max	200	24	IS : 10500 : 2012	Cl.4.0 of IS 3025 (Part 24):1986, RA 2019
xv	Total alkalinity (as CaCO ₃),	mg/l, Max	200	160	IS : 10500 : 2012	IS 3025 (Part 23):1986, RA 2019
xvi	Total hardness (as CaCO ₃),	mg/l, Max	200	168	IS : 10500 : 2012	IS 3025 (Part 21):2009, RA 2019
xvii	Zinc (as Zn)	mg/l, Max	5	<0.05	IS : 10500 : 2012	Cl.6.0 of IS 3025 (Part 49):1994, RA 2019
xviii	Total Chromium	mg/l, Max	0.05	<0.01	IS : 10500 : 2012	APHA 24th Edition(3111 C): 2023
xix	Sulphide	mg/l, Max	0.05	<0.01	IS : 10500 : 2012	Cl.3.0 of IS 3025 (Part 29):1986 RA 2019
xx	Aluminium (as Al)	mg/l,Max	0.03	<0.02	IS :10500:2012	Cl.5.0 of IS 3025 (part-55):2003, RA 2019
xxi	Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	<0.05	IS : 10500 : 2012	Annex - K OF IS 13428:2005
xxii	Boron (as B)	mg/l, Max	0.5	<0.1	IS : 10500 : 2012	IS 3025 (Part-57):2021
xxiii	Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	<0.00005	IS : 10500 : 2012	APHA 24th Edition (6440-B):2023
xxiv	Barium (as Ba)	mg/l, Max	0.7	<0.2	IS : 10500 : 2012	Annex F of IS 13428:2005
xxv	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	<0.01	IS : 10500 : 2012	IS 3025 (Part 2): 2002
xxvi	Chloramines (Cl ₂)	mg/l, Max	4.0	<1.0	IS : 10500 : 2012	IS 3025 (Part 26):2009



KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

Test Report No : KLPL/10/24/WATER/01725A

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
xxvi	Polychlorinated biphenyls	mg/l, Max	0.0005	<0.00005	IS : 10500 : 2012	Annex M of IS 13428 : 2005
PESTISIDE						
i	p p DDE	µg/l, Max	1	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
ii	p p DDD	µg/l, Max	1	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
iii	p p DDT	µg/l, Max	1	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
iv	o p DDT	µg/l, Max	1	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
v	o p DDD	µg/l, Max	1	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
vi	α-HCH	µg/l, Max	0.01	<0.01	IS : 10500 : 2012	USEPA 508,Rev 01:1994
vii	β-HCH	µg/l, Max	0.04	<0.04	IS : 10500 : 2012	USEPA 508,Rev 01:1994
viii	γ-HCH	µg/l, Max	0.04	<0.04	IS : 10500 : 2012	USEPA 508,Rev 01:1994
ix	Lindane	µg/l, Max	2	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
x	Endosulfan a	µg/l, Max	0.4	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xi	Endosulfan sulphate	µg/l, Max	0.4	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xii	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
xv	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
xviii	Polychlorinated biphenyls	mg/l, Max	0.0005	<0.00005	IS : 10500 : 2012	Annex M of IS 13428 : 2005
xix	Endosulfan B	µg/l, Max	0.4	<0.05	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xx	2,4-D	µg/l, Max	30	<0.05	IS : 10500 : 2012	USEPA 515.1,Rev 01:1995



KALYANI LABORATORIES PVT.LTD.



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

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

Test Report No : KLPL/10/24/WATER/01725A

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
xxi	Butachlor	µg/l, Max	125	<0.05	IS : 10500 : 2012	USEPA 8141 A,Rev 01:1994
xxii	Alachlor	µg/l, Max	20	<0.05	IS : 10500 : 2012	USEPA 8141 A,Rev 01:1994
xxiii	Atrazine	µg/l, Max	2	<0.05	IS : 10500 : 2012	USEPA 8141 A,Rev 01:1994
xxiv	Dieldrin	µg/l, Max	0.03	<0.03	IS : 10500 : 2012	USEPA 508,Rev 01:1994
xxv	Ethion(Residue to be Determined as ethion and its oxygen analogue and expressed as ethion)	µg/l, Max	3	<0.05	IS : 10500 : 2012	USEPA 8141 A,Rev 01:1994
PHYSICAL PARAMETER						
i	Colour	Hazen, Max	5	<1.0	IS : 10500 : 2012	CI.2.0 of IS 3025 (Part 4): 2021
ii	Odour	--	Agreeable	AGREEABLE	IS : 10500 : 2012	IS 3025 (Part 5):1983,RA:2012
iii	pH value	--	6.5-8.5	7.3	IS : 10500 : 2012	IS 3025 (Part-11):1983,RA:2012
iv	Taste	--	Agreeable	AGREEABLE	IS : 10500 : 2012	IS 3025 (Part 6):1984, RA 2017
v	Turbidity	NTU, Max	1	0.5	IS : 10500 : 2012	IS 3025 (Part 10):1984, RA 2017
vi	Total dissolved solids	mg/l, Max	500	300	IS : 10500 : 2012	IS 3025 (Part 16):1984, RA 2017
TOXIC SUBSTANCES						
i	Cadmium (as Cd)	mg/l, Max	0.003	<0.001	IS : 10500 : 2012	CI.5.0 of IS 3025 (Part 41):1992, RA 2019
ii	Cyanide (as CN)	mg/l, Max	0.05	<0.02	IS : 10500 : 2012	IS 3025 (Part 27):1986, RA 2019
iii	Lead (as Pb)	mg/l, Max	0.01	<0.005	IS : 10500 : 2012	CI.7.0 of IS 3025 (Part 47):1994, RA 2019
iv	Mercury (as Hg)	mg/l, Max	0.001	<0.0005	IS : 10500 : 2012	CI.5.0 of IS 3025 (Part 48):1994, RA 2019
v	Total arsenic (as As)	mg/l, Max	0.01	<0.001	IS : 10500 : 2012	IS 3025 (Part 37):1988, RA 2019
vi	Nickel (as Ni)	mg/l, Max	0.02	<0.01	IS : 10500 : 2012	CI 7.0 of IS 3025 (Part 54):2005



KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

Test Report No : KLPL/10/24/WATER/01725A

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
----	------------	------	-------------	--------	------------------------	-------------

Opinion & Interpretation: --

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Confirmation statement as per decision rule , if applicable : --

Analysed By

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised By

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

Greenbelt

Ferro Alloys Corporation Ltd (Power Plant) has 36.43% green belt coverage of its total area of 18.21 HA. PP is continuously working to achieve the tree density to 2500/Ha by using the existing vacant land and replacement of damaged plants.

Details of plantation are provided below.

Total land coverage by the project : 18.21 HA.

Greenbelt Coverage : 6.63 HA

Plantation: (Apr 2024-Mar 2025)

Year of plantation	Species planted	Spacing	Height attained (As on Date)	Total area covered in Ha (Approx)
2024-25	1425	1.5 m	>1 m	0.57

Trees Details:

Local Name	Botanical Name	Family
Trees		
Nimba	<i>Azadiracta india</i>	Meliaceae
Radhachura	<i>Peltophurum ferrugineum</i>	Caesalpiniaceae
Karanja	<i>Pongamia pinnata</i>	Fabaceae
Acacia	<i>Acacia auriculiformis</i>	Mimosaceae
Debadaru	<i>Polyalthia longifolia</i>	Annonaceae
Jamun	<i>Syzygium cumini</i>	Myrtaceae
Kadamba	<i>Neolamarckia cadamba</i>	Neolamarckia cadamba
Sishu	<i>Dalbergia sissoo</i>	Fabaceae
Amla	<i>Phyllanthus emblica</i>	Phyllanthaceae
Arjun	<i>Terminalia arjuna</i>	Combretaceae
Debdaru	<i>Polyalthia longifolia</i>	Annonaceae
Banyan	<i>Ficus benghalensis</i>	Moraceae
Bahada	<i>Terminalia bellirica</i>	Combretaceae
Sunari	<i>Cassia fistula</i>	Fabaceae
Peepal	<i>Ficus religiosa</i>	Moraceae
Indian bael	<i>Aegle marmelos</i>	Rutaceae
Shrubs		
Kadali	<i>Musa paradisiaca</i>	Musaceae
Pedipedika	<i>Abutilon persicum</i>	Malvaceae
Dalimba	<i>Punica granatum</i>	Puniaceae



KALYANI LABORATORIES PVT.LTD.

Annexure 5

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

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

TEST REPORT

Test Report No	: KLPL/10/24/WATER/01722
Issue Date	: 17-Oct-2024
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	: 09-Oct-2024 Commenced On : 09-Oct-2024 Completion On: 17-Oct-2024
Sample Description	: STP OUTLET WATER
Form\Shape\Appearance	: SEALED PET BOTTLE
Sample Identification	: STP OUTLET WATER
Batch No , Lot No	: NOT APPLICABLE MFG Date : NOT APPLICABLE EXP Date: NOT APPLICABLE
Received Quantity	: 1 LITRE Sample Collection Location, & Date : PLANT STP OUTLET, DATE-08.10.2024
Sample Collected By	: MR. SUDHIR KUMAR BARIK
Sampling Procedure if Any	: KLPL/QSP-07

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
i	Feacal Coliform	MPN/100ml	<1000	130	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	1622:1981, RA 2009
CHEMICAL PARAMETER						
ii	Total Suspended Solids.	mg/l, Max	<100	36.6	As per CTO	APHA 24th Edition (2540 D):2023
i	Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	30	10.1	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition (5210 B):2023
PHYSICAL PARAMETER						
i	pH value	--	6.5-9.0	7.4	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

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

Analysed By

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.

Authorised By

Dr. Debasis Biswal

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

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

TEST REPORT

Test Report No	: KLPL/11/24/WATER/02095
Issue Date	: 02-Dec-2024
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	: 23-Nov-2024 Commenced On : 23-Nov-2024 Completion On: 30-Nov-2024
Sample Description	: STP OUTLET WATER
Form\Shape\Appearance	: SEALED PET BOTTLE
Sample Identification	: STP OUTLET WATER
Batch No , Lot No	: NOT APPLICABLE MFG Date : NOT APPLICABLE EXP Date: NOT APPLICABLE
Received Quantity	: 1 LITRE Sample Collection Location, & Date : PLANT STP OUTLET, DATE-23.11.2024
Sample Collected By	: MR. SUDHIR KUMAR BARIK
Sampling Procedure if Any	: KLPL/QSP-07

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
i	Faecal Coliform	MPN/100ml	<1000	140	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	1622:1981, RA 2009
CHEMICAL PARAMETER						
ii	Total Suspended Solids.	mg/l, Max	<100	38	As per CTO	APHA 24th Edition (2540 D):2023
i	Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	30	11	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition (5210 B):2023
PHYSICAL PARAMETER						
i	pH value	--	6.5-9.0	7.5	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

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

Analysed By

D. Digambar Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised By

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

TEST REPORT

Test Report No : KLPL/12/24/WATER/02298
Issue Date : 03-Jan-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 : 26-Dec-2024 **Commenced On** : 26-Dec-2024 **Completion On** : 31-Dec-2024
Sample Description : **STP OUTLET WATER**
Form\Shape\Appearance : SEALED PET BOTTLE
Sample Identification : **STP OUTLET WATER**
Batch No , Lot No : NOT APPLICABLE **MFG Date** : NOT APPLICABLE **EXP Date** : NOT APPLICABLE
Received Quantity : 1 LITRE **Sample Collection Location, & Date** :
Sample Collected By : MR. SUDHIR KUMAR BARIK **PLANT STP OUTLET, DATE-24.12.2024**
Sampling Procedure if Any : KLPL/QSP-07

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
i	Faecal Coliform	MPN/100ml	<1000	142	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	1622:1981, RA 2009
CHEMICAL PARAMETER						
ii	Total Suspended Solids.	mg/l, Max	<100	36	As per CTO	APHA 24th Edition (2540 D):2023
i	Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	30	10	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition (5210 B):2023
PHYSICAL PARAMETER						
j	pH value	--	6.5-9.0	7.6	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
Confirmation statement as per decision rule , if applicable : --

Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised By

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 : KLPL/01/25/WATER/02486

Issue Date : 01-Feb-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 : 20-Jan-2025 **Commenced On** : 20-Jan-2025 **Completion On** : 01-Feb-2025

Sample Description : **STP OUTLET WATER**

Form\Shape\Appearance : SEALED PET BOTTLE

Sample Identification : **STP OUTLET WATER**

Batch No , Lot No : NOT APPLICABLE

MFG Date : NOT APPLICABLE **EXP Date** : NOT APPLICABLE

Received Quantity : 1 LITRE

Sample Collection Location, & Date :

Sample Collected By : MR. SUDHIR KUMAR BARIK

PLANT STP OUTLET, DATE-18.01.2025

Sampling Procedure if Any : KLPL/QSP-07

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
i	Feecal Coliform	MPN/100ml	<1000	130	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	1622:1981, RA 2009
CHEMICAL PARAMETER						
ii	Total Suspended Solids.	mg/l, Max	<100	36.6	As per CTO	APHA 24th Edition (2540 D):2023
i	Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	30	10.1	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition (5210 B):2023
PHYSICAL PARAMETER						
i	pH value	--	6.5-9.0	7.4	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

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

Analysed By

Authorised By

L. Senapati

Miss. Liza Senapati

For Kalyani Laboratories Pvt. Ltd.



Dr. Debasis Biswal

Dr. Debasis Biswal

For Kalyani Laboratories Pvt. Ltd.

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

KLPL- 10020996B

KALYANI LABORATORIES PVT.LTD.



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



+91 9861463904

M: kalyanilab@yahoo.co.in

TEST REPORT

Test Report No : KLPL/02/25/WATER/02733

Issue Date : 27-Feb-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 : 22-Feb-2025 **Commenced On** : 22-Feb-2025 **Completion On** : 27-Feb-2025

Sample Description : **STP OUTLET WATER**

Form|Shape|Appearance : SEALED PET BOTTLE

Sample Identification : **STP OUTLET WATER**

Batch No , Lot No : NOT APPLICABLE

MFG Date : NOT APPLICABLE **EXP Date** : NOT APPLICABLE

Received Quantity : 1 LITRE

Sample Collection Location, & Date :

Sample Collected By : MR. SUDHIR KUMAR BARIK

PLANT STP OUTLET, DATE-21.02.2025

Sampling Procedure If Any : KLPL/QSP-07

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
i	Faecal Coliform	MPN/100ml	<1000	145	Standard specification as per G.S.R. 1265(E), MOEF & CC, 13th October 2017	1622:1981, RA 2009
CHEMICAL PARAMETER						
ii	Total Suspended Solids.	mg/l, Max	<100	35	As per CTO	APHA 24th Edition (2540 D):2023
i	Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	30	13	Standard specification as per G.S.R. 1265(E), MOEF & CC, 13th October 2017	APHA 24th Edition (5210 B):2023
PHYSICAL PARAMETER						
i	pH value	--	6.5-9.0	7.1	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

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

Analysed By

L. Senapati

Miss.Liza Senapati

For Kalyani Laboratories Pvt. Ltd.



Authorised By

Dr. Debasis Biswal

Dr. Debasis Biswal

For Kalyani Laboratories Pvt. Ltd.

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

KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

TEST REPORT

Test Report No	: KLPL/03/25/WATER/02975				
Issue Date	: 04-April-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	: 28-Mar-2025	Commenced On	: 28-Mar-2025	Completion On	: 04-April-2025
Sample Description	: STP OUTLET WATER				
Form Shape Appearance	: SEALED PET BOTTLE				
Sample Identification	: STP OUTLET WATER				
Batch No , Lot No	: NOT APPLICABLE	MFG Date	: NOT APPLICABLE	EXP Date	: NOT APPLICABLE
Received Quantity	: 1 LITRE	Sample Collection Location, & Date :			
Sample Collected By	: MR. SUDHIR KUMAR BARIK	PLANT STP OUTLET, DATE-27.03.2025			
Sampling Procedure if Any	: KLPL/QSP-07				

Sl	Parameters	Unit	Requirement	Result	Standard Specification	Test Method
i	Feacal Coliform	MPN/100ml	<1000	140	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	1622:1981, RA 2009
CHEMICAL PARAMETER						
ii	Total Suspended Solids.	mg/l, Max	<100	36	As per CTO	APHA 24th Edition (2540 D):2023
i	Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	30	10	Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th October 2017	APHA 24th Edition (5210 B):2023
PHYSICAL PARAMETER						
i	pH value	--	6.5-9.0	7.6	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
 Confirmation statement as per decision rule , if applicable : --

Analysed By

L. Senapati

Miss. Liza Senapati
 For Kalyani Laboratories Pvt. Ltd.



Authorised By

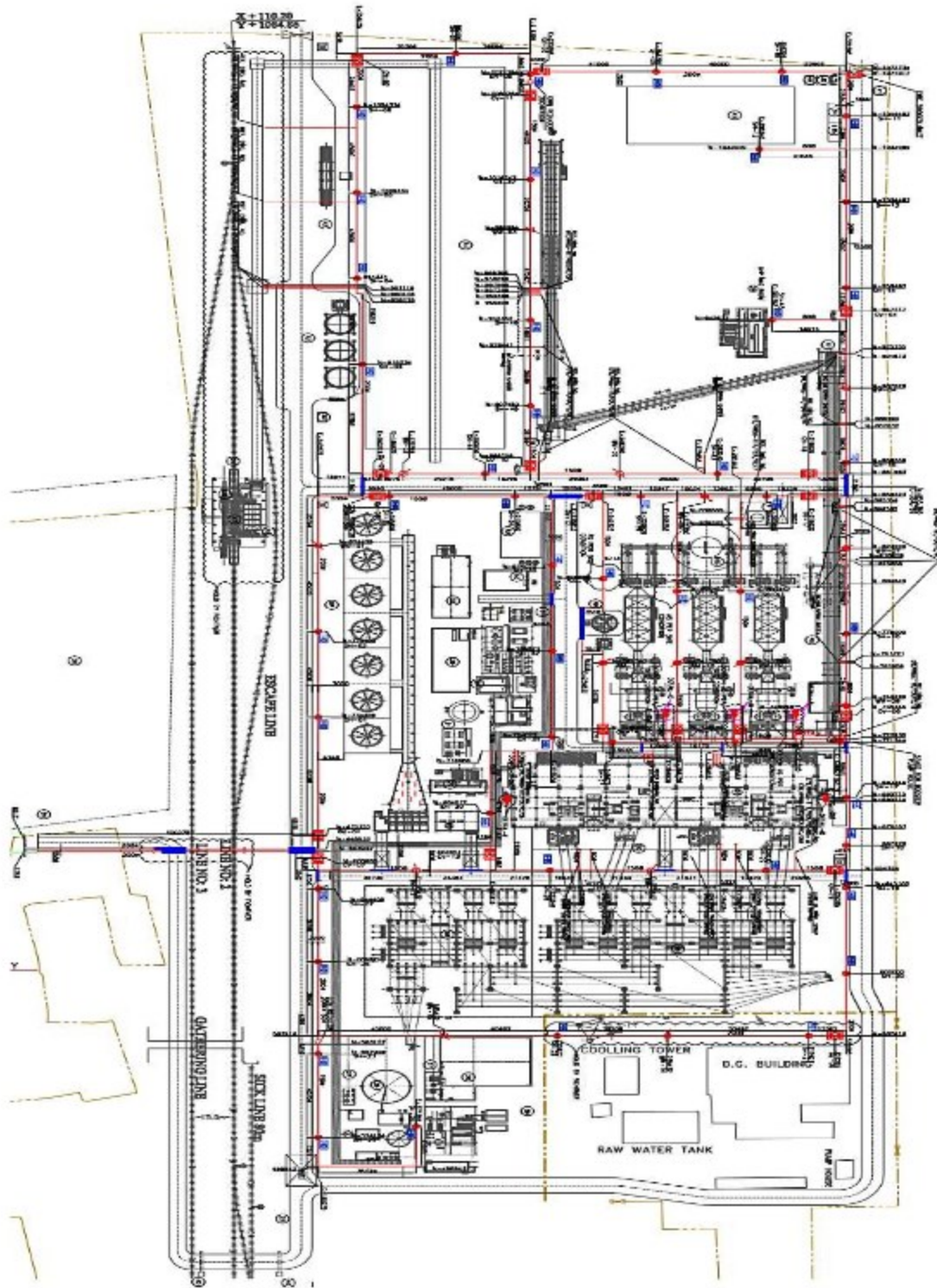
Dr. Debasis Biswal



For Kalyani Laboratories Pvt. Ltd.

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



Rooftop Rainwater Harvesting Structures.



 transforming for good	MOCK DRILL ASSESSMENT REPORT		
DOC. NO. FACOR-IMS-FSF-08			
Issue No.: 01	Issuedate:01.11.2021	Revision date : --	Revision No. : 00

Mock Drill On Petrochemical Disaster

Date : 28.02.2025

Location: HSD Tank Area (PP)

Drill Start Time: 8:14 hours

Drill End Time: 10.50 hours

Total time of the

Drill: Minutes

Emergency Scenario:

The mechanical crew entered inside the HSD storage area in accordance with the issued PTW for oil filter maintenance work. During maintenance work on an oil filter, the mechanical crew entered inside the HSD Storage area. While doing maintenance job the crew identified a minor HSD leakage from a flange within the dyke wall. While attempting to fix it, the leakage worsened, leading to a significant spill inside the dyke. The crew immediately exited the area and informed about the incident to the Emergency Control Room and Area In-Charge.

Following internal communication, a Level 1 siren was activated. The QRT vehicle, along with QRT members, secured both sides of the affected area to prevent unauthorized access.

The Combat Team initiated their activities, while the Fire Fighting Team took positions with fire hoses and foam trolley. During spillage control, a spark from a motor ignited the HSD, causing a fire inside the dyke wall. While evacuating, two Combat Team members fell within the HSD area. The Medical & Rescue Team responded promptly, rescuing and transporting the injured to the first aid center.

As the fire escalated, a Level 2 emergency was declared, and the district fire tender arrived. Both internal and district fire teams worked together to control the fire using foam extinguishing media. Once the fire was under control, the internal team used water monitors and activated the water deluge system to cool the HSD tank. The Combat Team resumed spillage control using spill kits and hazardous waste containers. A team member, fully equipped with safety gear (SCBA and chemical-resistant suit), successfully stopped the flange leakage.

With the situation under control, an all-clear siren was sounded, and a closing briefing was conducted to review the response and actions taken.

DOC. NO. FACOR-IMS-FSF-08**Issue No.: 01****Issuedate:01.11.2021****Revision date : --****Revision No. : 00****Actions of Various Teams During the Emergency Scenario****1. Action By Combat Team**

- i. Isolated the power supply.
- ii. Began activities related to spill control and arrangements of firefighting equipment.
- iii. Blocking the dyke wall with sandbags.
- iv. Made a pit and access for collecting the oil coming the damaged dyke area.
- v. Using Hand pumps for collecting the dyke oil into the drum.
- vi. Involved in spill clearance activity using spill kit and hazardous waste containers.
- vii. Addressed the leaking point and successfully stopped the leakage.

2. Action By Rescue Team

- i. Secured both sides of the affected area to restrict unauthorized access.
- ii. Evacuated the casualties from the work area and took them at safe place.
- iii. Initiated Fire Fighting activities.
- iv. Activated the water deluge system for additional cooling.

3. Action By Auxiliary Team

- i. Communication with the Ambulance.
- ii. Informed the District Emergency operation Centre about the incident for additional support.
- iii. Gather all the persons at nearby Assembly point.
- iv. Head count of the all the person.

4. Action By District Fire Service Team

- i. Helped the internal fire team.
- ii. Provided additional manpower and resources to support Internal Fire Team to control and extinguish the fire

5. Action By Ambulance Team

- i. Provided immediate first aid treatment at the site to the injured persons as per triage.
- ii. Transported both the casualties to the OHC Centre through the ALS & BLS ambulance.
- iii. Two medical team members are there to attend if there are any additional injuries during the spill control activity.

6. Action By Doctor:

- i. Examined both the casualties at OHC.
- ii. After examination, patient have right knee injury and vitals are unstable after given the primary treatment referred to Bhadrak CHC for further evaluation.
- iii. 1 patient vitals are stable, and minor injury in the ankle joint & primary treatment given in the OHC and under observations for 2 hours.

7. Action By Bhadrak CHC Team:

DOC. NO. FACOR-IMS-FSF-08
Issue No.: 01
Issuedate:01.11.2021
Revision date : --
Revision No. : 00

- i. After investigation (X ray) patient is under observation for 6 hours and then he discharges as per medical advice.

Sequence of Event:

S. No.	TIME	Event
1	8:14 AM	CREW arrived for the scheduled maintenance work (oil filter inspection) at HSD tank area, Capacity- 35 KL & TBT conducted by the job supervisor
2	8:15 AM	Toolbox Talk (TBT) given to the deployed workforce.
3	8:19 AM	Access control opened by the job supervisor.
4	8:19 AM	Workers and Supervisor went inside the HSD storage area.
5	8:20 AM	Job started by the workmen inside the HSD Storage area.
6	8:24 AM	While working they identified a leakage form the flange of one of the lines inside the HSD Tank farm Area.
7	8:27 AM	They were trying to arrest the leakage, but the leakage increased.
8	8:29 AM	Leakage converted into heavy leakage and storing in dyke wall.
9	8:30 AM	Team evacuated themselves from the storage area to outside of the fence of the HSD Storage Area.
10	8:31 AM	Supervisor informed the Power plant Control Room
11	8:33 AM	Combat Team Leader arrived at site and took stuck of the situation from the dyke wall.
12	8:33 AM	Combat team leader asked combat team members to arrive at the site and inform the incident details to SIC.
13	8:34 AM	Site Incident Controller arrived at site.
14	8:34 AM	Combat team members arrived at site.
15	8:35 AM	Level 1 emergency siren blown.
16	8:36 AM	Rescue Team arrived at site.
17	8:37 AM	FACOR Fire team took their positions and arranged firefighting equipment.
18	8:38 AM	Auxiliary Team Leader with Members arrived at site.
19	8:40 AM	ALS (Advanced Life Support) & BLS (Basic Life Support) ambulances arrived at site
20	8:40 AM	Spill kit & sandbags were used by the combat team to contain the leakage & tried to empty out the spilled oil from the dyke
21	8:44 AM	Fire caught at the leaking point due to sparking from the motor
22	8:45 AM	Combat team evacuated the site
23	8:45 AM	While evacuating, 2 persons slipped
24	8:45 AM	Deluge valve activated automatically due to the fire
25	8:46 AM	Rescue team of FACOR evacuated the injured persons from the work area
26	8:46 AM	FACOR Medical team administered the FIRST AID to the Injured persons just outside the fence of the HSD storage yard

DOC. NO. FACOR-IMS-FSF-08
Issue No.: 01
Issuedate:01.11.2021
Revision date : --
Revision No. : 00

27	8:48 AM	Fire fighting started by the FACOR firefighting team with the fire hose & fire monitor
28	8:53 AM	IP1 (injured person) shifted to FACOR dispensary by the ALS ambulance
29	8:54 AM	IP2 (injured person) shifted to the OHC by the BLS ambulance
30	8:56 AM	Level 2 siren blown
31	8:57 AM	District Emergency Operation Centre was informed about the emergency that happened at FACOR
32	9:02 AM	DEOC informed SEOC / Incident commander / Fire / Police / ODRAF / DDFB / GM DIC / concern BDO over phone.
33	9:45 AM	Fire Tender Arrived at site (External support- District Fire Emergency Services)
34	10:00 AM	Incident Commander arrived at the site and was briefed by the situation by official from FACOR
35	10:10 AM	All the stakeholders reached the site & deployed
36	10:15 AM	Incident Commander briefed all Fire, Police, Medical team about the situation
37	10:16 AM	District Fire Services team started fire fighting
38	10:20 AM	IP1 referred to Bara pada CHC
39	10:26 AM	Fire extinguished
40	10:28 AM	External firefighting team stopped fire fighting
41	10:30 AM	Initial report shared by DEOC to SEOC
42	10:33 AM	All team gathered at the site for site verification
43	10:35 AM	Joint team- (person with SCBA & chemical suit, rescue team member & electrical team member) visited the site.
44	10:38 AM	All team gathered at the assembly point for final briefing
45	11:30 AM	First Initial report shared by DEOC to SEOC
46	12:30 PM	Completion report shared by DEOC to SEOC

Observations

S No	Points	Responsibility	Timeline	Status
1	Windsock was not at such height for easy observation of air flow direction.	Aditya Sahu	10.03.2025	Completed
2	Emergency Exit was not opened.	Saroj Mohanty	Immediate	Completed (Counselling Done)
3	14 nos. of team members entered into small fencing area 60*60 feet.	Soubhagya Panda	Immediate	Completed (Counselling Done)

DOC. NO. FACOR-IMS-FSF-08
Issue No.: 01
Issuedate:01.11.2021
Revision date : --
Revision No. : 00

4	SIC also entered into the fencing area.	Soubhagya Panda	Immediate	Completed (Counselling Done)
5	Water sprinkling system was activated. Foam was sprayed at last whereas it was supposed to be done at first.	Anuj Kumar & Indiverker	Immediate	Completed (Counselling Done)
6	Foam sprayed into the tank instead of spilled area.	Anuj Kumar & Indiverker	Immediate	Completed (Counselling Done)
7	Fire water was in pointing mode instead of spray mode. Pointing water supply may damage deluge valve.	Anuj Kumar & Indiverker	Immediate	Completed (Counselling Done)

Positive Observations

S no.	Positive Observation:
1	Color coding of helmets and jackets of Emergency team member was maintained.
2	Response time of QRT and ambulance were good. 3. Combat team actions were very quick.
3	Communication as per command structure was good.
4	Isolation and Work permit system maintained at site.
5	Good Coordination with District Emergency Team.
6	Advance life support is available at the site.

Total 60 Persons Present During Mock Drill

Name of the Observer:

1. Tahsildar, Bhadrak - Mr. Priyadarshi Sangram Keshari Khuntia
2. Dy Collector, Election & Emergency – Mrs. Sagarika Sahoo
3. BDO, Bhadrak – Mr. Rashmi Ranjan Mallick
4. Deputy Director of Factories & Boiler – Mr. Umesh Chandra Sutar
5. GM of DICs, Bhadrak – Mr. Suryakanta Behera
6. IIC Rural PDIC, Bhadrak – Dayanidhi Das
7. District Project Officer - Amlan Anupam Senapati

DOC. NO. FACOR-IMS-FSF-08
Issue No.: 01
Issuedate:01.11.2021
Revision date : --
Revision No. : 00

8. Dist. Fire Officer – Mr. Poren Soren
9. Dr. Dhanesh Kumar – State Pollution Control Board

PICTURES



DOC. NO. FACOR-IMS-FSF-08
Issue No.: 01
Issuedate:01.11.2021
Revision date : --
Revision No. : 00


DOC. NO. FACOR-IMS-FSF-08
Issue No.: 01
Issuedate:01.11.2021
Revision date : --
Revision No. : 00


DOC. NO. FACOR-IMS-FSF-08

Issue No.: 01

Issuedate:01.11.2021

Revision date : --

Revision No. : 00



DOC. NO. FACOR-IMS-FSF-08
Issue No.: 01
Issuedate:01.11.2021
Revision date : --
Revision No. : 00




KALYANI LABORATORIES PVT.LTD.

Annexure 8

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

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

TEST REPORT

Test Report No	: KLPL/10/24/ENVN/00316	Issue Date	: 17-Oct-2024
Amendment No	: -	Amendment Date	: -
Reference	: PO NUMBER :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	: 09-Oct-2024	Commenced On	: 09-Oct-2024
		Completion On	: 17-Oct-2024
Sample Name	: NOISE		
Sample Condition	: --		
Sample Collected By	: MR. SUDHIR KUMAR BARIK		
Ref.To Sampling Procedure	: KLPL/NOISE/SOP-23		
Parameters	Unit	Standard Value	Results
Test Method			
Location & Date	: INSIDE CONTROL ROOM, DATE-08.10.2024		
Noise Level Indl. Area (Day)	dB(A)	75	58.4
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	48.5
			IS 9989:1981 (RA 2014):2014
Location & Date	: NEAR ADMIN OFFICE, DATE-08.10.2024		
Noise Level Indl. Area (Day)	dB(A)	75	63.6
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	51.8
			IS 9989:1981 (RA 2014):2014
Location & Date	: BOILER-1, DATE-08.10.2024		
Noise Level Indl. Area (Day)	dB(A)	75	69.7
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	60.0
			IS 9989:1981 (RA 2014):2014
Location & Date	: BOILER-2, DATE-08.10.2024		
Noise Level Indl. Area (Day)	dB(A)	75	71.6
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	61.8
			IS 9989:1981 (RA 2014):2014
Location & Date	: BOILER-3, DATE-08.10.2024		
Noise Level Indl. Area (Day)	dB(A)	75	70.6
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	62.7
			IS 9989:1981 (RA 2014):2014
Location & Date	: NEAR COMPRESSOR HOUSE, DATE-08.10.2024		
Noise Level Indl. Area (Day)	dB(A)	75	71.4
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	50.3
			IS 9989:1981 (RA 2014):2014
Location & Date	: NEAR ESP ID FAN-3, DATE-08.10.2024		
Noise Level Indl. Area (Day)	dB(A)	75	70.7
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	60.0
			IS 9989:1981 (RA 2014):2014
Location & Date	: DM PLANT, DATE-08.10.2024		
Noise Level Indl. Area (Day)	dB(A)	75	63.6
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	52.4
			IS 9989:1981 (RA 2014):2014
Location & Date	: NEAR ESP ID FAN-1, DATE-08.10.2024		
Noise Level Indl. Area (Day)	dB(A)	75	68.4
			IS 9989:1981 (RA 2014):2014





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	:	KLPL/10/24/ENVN/00316	Issue Date	:	17-Oct-2024
Amendment No	:	-	Amendment Date	:	-
Reference	:	PO NUMBER :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	:	09-Oct-2024	Commenced On :	09-Oct-2024	Completion On: 17-Oct-2024
Sample Name	:	NOISE			
Sample Condition	:	--			
Sample Collected By	:	MR. SUDHIR KUMAR BARIK			
Ref.To Sampling Procedure	:	KLPL/NOISE/SOP-23			
Parameters		Unit	Standard Value	Results	Test Method
Noise Level Indl. Area (Night)		dB(A)	70	55.3	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ESP ID FAN-2, DATE-08.10.2024					
Noise Level Indl. Area (Day)		dB(A)	75	68.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)		dB(A)	70	58.0	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ETP, DATE-08.10.2024					
Noise Level Indl. Area (Day)		dB(A)	75	59.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)		dB(A)	70	49.4	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR MAIN GATE, DATE-08.10.2024					
Noise Level Indl. Area (Day)		dB(A)	75	56.3	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)		dB(A)	70	50.6	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR PRIMARY CRUSHER, DATE-08.10.2024					
Noise Level Indl. Area (Day)		dB(A)	75	72.2	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)		dB(A)	70	62.5	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR SECONDRY CRUSHER, DATE-08.10.2024					
Noise Level Indl. Area (Day)		dB(A)	75	67.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)		dB(A)	70	63.1	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR STG CONDENSER, DATE-08.10.2024					
Noise Level Indl. Area (Day)		dB(A)	75	71.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)		dB(A)	70	65.0	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR WAGON TIPLER, DATE-18.09.2024					
Noise Level Indl. Area (Day)		dB(A)	75	68.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)		dB(A)	70	56.2	IS 9989:1981 (RA 2014):2014





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	: KLPL/10/24/ENVN/00316	Issue Date	: 17-Oct-2024
Amendment No	: -	Amendment Date	: -
Reference	: PO NUMBER : 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	: 09-Oct-2024	Commenced On :	09-Oct-2024
		Completion On:	17-Oct-2024
Sample Name	: NOISE		
Sample Condition	: --		
Sample Collected By	: MR. SUDHIR KUMAR BARIK		
Ref.To Sampling Procedure	: KLPL/NOISE/SOP-23		
Parameters	Unit	Standard Value	Results
			Test Method

Remarks : -

Any unusual feature observed during determination : NIL
Requirement is as per standard specification Noise Rule 2000
The results relate only to samples tested and test parameters

Analysed By

D Arukha

Mr. Digambar Arukha
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

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

TEST REPORT

Test Report No : KLPL/10/24/ENVN/00316A
Issue Date : 17-Oct-2024
Amendment No : -
Amendment Date : -

Reference : PO NUMBER : 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 : 08-Oct-2024 **Commenced On** : 08-Oct-2024 **Completion On** : 17-Oct-2024
Sample Name : NOISE
Sample Condition : -
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure : KLPL/NOISE/SOP-23

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
------------	------	-------------	---------	--------------------	-------------

Location & Date : NEAR TG SET, DT-08.10.2024


i	Noise Level Indl. Area (Day)	dB(A)	90	68.3	As Per Factories & boilers act	IS 9989:1981 (RA 2014):2014
ii	Noise Level Indl. Area (Night)	dB(A)	90	75.5	As Per Factories & boilers act	IS 9989:1981 (RA 2014):2014

REMARKS: As Per Customer Specific Standard.

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Confirmation statement as per decision rule , if applicable : —

To view "Terms & Conditions & NABL certificate of accreditation click report.kalyanilaboratories.com/images/NACNTC.pdf

Analysed By


Mr. Digambar Arukha
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



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

TEST REPORT

Test Report No	: KLPL/11/24/ENVN/00376	Issue Date	: 02-Dec-2024
Amendment No	: -	Amendment Date	: -
Reference	: PO NUMBER :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	: 23-Nov-2024	Commenced On	: 23-Nov-2024
		Completion On	: 23-Nov-2024
Sample Name	: NOISE		
Sample Condition	: --		
Sample Collected By	: MR. SUDHIR KUMAR BARIK		
Ref.To Sampling Procedure	: KLPL/NOISE/SOP-23		
Parameters	Unit	Standard Value	Results
Location & Date	: INSIDE CONTROL ROOM, DATE-23.11.2024		
Noise Level Indl. Area (Day)	dB(A)	75	55.4
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	46.5
			IS 9989:1981 (RA 2014):2014
Location & Date	: NEAR ADMIN OFFICE, DATE-23.11.2024		
Noise Level Indl. Area (Day)	dB(A)	75	62.6
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	55.8
			IS 9989:1981 (RA 2014):2014
Location & Date	: BOILER-1, DATE-23.11.2024		
Noise Level Indl. Area (Day)	dB(A)	75	67.7
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	61.0
			IS 9989:1981 (RA 2014):2014
Location & Date	: BOILER-2, DATE-23.11.2024		
Noise Level Indl. Area (Day)	dB(A)	75	72.6
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	63.8
			IS 9989:1981 (RA 2014):2014
Location & Date	: BOILER-3, DATE-23.11.2024		
Noise Level Indl. Area (Day)	dB(A)	75	69.6
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	61.7
			IS 9989:1981 (RA 2014):2014
Location & Date	: NEAR COMPRESSOR HOUSE, DATE-23.11.2024		
Noise Level Indl. Area (Day)	dB(A)	75	72.4
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	58.3
			IS 9989:1981 (RA 2014):2014
Location & Date	: NEAR ESP ID FAN-3, DATE-23.11.2024		
Noise Level Indl. Area (Day)	dB(A)	75	69.7
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	61.0
			IS 9989:1981 (RA 2014):2014
Location & Date	: DM PLANT, DATE-23.11.2024		
Noise Level Indl. Area (Day)	dB(A)	75	68.6
			IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	56.4
			IS 9989:1981 (RA 2014):2014
Location & Date	: NEAR ESP ID FAN-1, DATE-23.11.2024		
Noise Level Indl. Area (Day)	dB(A)	75	69.4
			IS 9989:1981 (RA 2014):2014





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 : KLPL/11/24/ENVN/00376 **Issue Date** : 02-Dec-2024
Amendment No : - **Amendment Date** : -
Reference : PO NUMBER :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 : 23-Nov-2024 **Commenced On** : 23-Nov-2024 **Completion On** : 30-Nov-2024

Sample Name : **NOISE**
Sample Condition : --
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure : KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Noise Level Indl. Area (Night)	dB(A)	70	58.3	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ESP ID FAN-2, DATE-23.11.2024				
Noise Level Indl. Area (Day)	dB(A)	75	69.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	59.0	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ETP, DATE-23.11.2024				
Noise Level Indl. Area (Day)	dB(A)	75	56.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	47.4	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR MAIN GATE, DATE-23.11.2024				
Noise Level Indl. Area (Day)	dB(A)	75	58.3	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	52.6	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR PRIMARY CRUSHER, DATE-23.11.2024				
Noise Level Indl. Area (Day)	dB(A)	75	71.2	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	62.5	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR SECONDRY CRUSHER, DATE-23.11.2024				
Noise Level Indl. Area (Day)	dB(A)	75	68.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	64.1	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR STG CONDENSER, DATE-23.11.2024				
Noise Level Indl. Area (Day)	dB(A)	75	73.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	65.0	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR WAGON TIPLER, DATE-23.11.2024				
Noise Level Indl. Area (Day)	dB(A)	75	64.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	52.2	IS 9989:1981 (RA 2014):2014





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 : KLPL/11/24/ENVN/00376 **Issue Date** : 02-Dec-2024
Amendment No : - **Amendment Date** : -
Reference : PO NUMBER :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 : 23-Nov-2024 **Commenced On** : 23-Nov-2024 **Completion On**: 30-Nov-2024

Sample Name : **NOISE**
Sample Condition : --
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure : KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------

Remarks : -

Any unusual feature observed during determination :NIL
Requirement is as per standard specification Noise Rule 2000
The results relate only to samples tested and test parameters

Analysed By

Mr. Digambar Arukha
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

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

TEST REPORT

Test Report No : KLPL/11/24/ENVN/00376A
Issue Date : 02-Dec-2024
Amendment No : -
Amendment Date : -

Reference : PO NUMBER : 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 : 23-Nov-2024 Commenced On : 23-Nov-2024 Completion On: 30-Nov-2024
Sample Name : NOISE
Sample Condition : -
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure: KLPL/NOISE/SOP-23

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
Location & Date : NEAR TG SET, DT-08.11.2024					
i Noise Level Indl. Area (Day)	dB(A)	90	78.3	As Per Factories & boilers act	IS 9989:1981 (RA 2014):2014
ii Noise Level Indl. Area (Night)	dB(A)	90	73.5	As Per Factories & boilers act	IS 9989:1981 (RA 2014):2014

REMARKS: As Per Customer Specific Standard.

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Confirmation statement as per decision rule , if applicable : —

To view "Terms & Conditions & NABL certificate of accreditation click report.kalyanilaboratories.com/images/NACNTC.pdf

Analysed By

D Arukha

Mr. Digambar Arukha
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.

Kalyani Laboratories

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

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

TEST REPORT

Test Report No	: KLPL/12/24/ENVN/00420	Issue Date	: 03-Jan-2025	
Amendment No	: -	Amendment Date	: -	
Reference	: PO NUMBER :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	: 26-Dec-2024	Commenced On :	26-Dec-2024	
		Completion On :	31-Dec-2024	
Sample Name	: NOISE			
Sample Condition	: --			
Sample Collected By	: MR. SUDHIR KUMAR BARIK			
Ref.To Sampling Procedure	: KLPL/NOISE/SOP-23			
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : INSIDE CONTROL ROOM, DATE-24.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	53.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	45.5	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ADMIN OFFICE, DATE-24.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	61.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	54.8	IS 9989:1981 (RA 2014):2014
Location & Date : BOILER-1, DATE-24.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	66.7	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	62.0	IS 9989:1981 (RA 2014):2014
Location & Date : BOILER-2, DATE-23.11.2024				
Noise Level Indl. Area (Day)	dB(A)	75	71.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	62.8	IS 9989:1981 (RA 2014):2014
Location & Date : BOILER-3, DATE-24.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	67.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	60.7	IS 9989:1981 (RA 2014):2014
NEAR COMPRESSOR HOUSE, DATE-24.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	71.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	57.3	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ESP ID FAN-3, DATE-24.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	68.7	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	60.0	IS 9989:1981 (RA 2014):2014
Location & Date : DM PLANT, DATE-24.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	69.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	54.4	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ESP ID FAN-1, DATE-24.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	68.4	IS 9989:1981 (RA 2014):2014

Laboratories



KLPL- 10021512B

KALYANI LABORATORIES PVT.LTD.



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



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

TEST REPORT

Test Report No	: KLPL/12/24/ENVN/00420	Issue Date	: 03-Jan-2025	
Amendment No	: -	Amendment Date	: -	
Reference	: PO NUMBER :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	: 26-Dec-2024	Commenced On :	26-Dec-2024	
		Completion On :	31-Dec-2024	
Sample Name	: NOISE			
Sample Condition	: --			
Sample Collected By	: MR. SUDHIR KUMAR BARIK			
Ref.To Sampling Procedure	: KLPL/NOISE/SOP-23			
Parameters	Unit	Standard Value	Results	Test Method
Noise Level Indl. Area (Night)	dB(A)	70	57.3	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ESP ID FAN-2, DATE-24.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	67.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	57.0	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ETP, DATE-24.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	53.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	46.4	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR MAIN GATE, DATE-24.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	58.3	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	53.6	IS 9989:1981 (RA 2014):2014
NEAR PRIMARY CRUSHER, DATE-24.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	68.2	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	61.5	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR SECONDRY CRUSHER, DATE-24.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	67.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	62.1	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR STG CONDENSER, DATE-24.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	72.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	61.0	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR WAGON TIPLER, DATE-23.11.2024				
Noise Level Indl. Area (Day)	dB(A)	75	63.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	51.2	IS 9989:1981 (RA 2014):2014



KLPL-10021513B

KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

TEST REPORT

Test Report No	: KLPL/12/24/ENVN/00420	Issue Date	: 03-Jan-2025
Amendment No	: -	Amendment Date	: -
Reference	: PO NUMBER :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	: 26-Dec-2024	Commenced On :	26-Dec-2024
		Completion On:	31-Dec-2024
Sample Name	: NOISE		
Sample Condition	: --		
Sample Collected By	: MR. SUDHIR KUMAR BARIK		
Ref.To Sampling Procedure	: KLPL/NOISE/SOP-23		
Parameters	Unit	Standard Value	Results
			Test Method

Remarks : -

Any unusual feature observed during determination :NIL
Requirement is as per standard specification Noise Rule 2000
The results relate only to samples tested and test parameters

Analysed By

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

KLPL-10021514B

KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

TEST REPORT

Test Report No : KLPL/11/24/ENVN/00420A
Issue Date : 03-Jan-2025
Amendment No : -
Amendment Date : -

Reference : PO NUMBER :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 : 26-Dec-2024 **Commenced On** : 26-Dec-2024 **Completion On** : 31-Dec-2024
Sample Name : **NOISE**
Sample Condition : -
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure : KLPL/NOISE/SOP-23

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
------------	------	-------------	---------	--------------------	-------------

Location & Date : **NEAR TG SET,DT-24.12.2024**

i	Noise Level Indl. Area (Day)	dB(A)	90	76.3	As Per Factories & boilers act	IS 9989:1981 (RA 2014):2014
ii	Noise Level Indl. Area (Night)	dB(A)	90	72.5	As Per Factories & boilers act	IS 9989:1981 (RA 2014):2014

REMARKS: As Per Customer Specific Standard.

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Confirmation statement as per decision rule , if applicable : —

To view "Terms & Conditions & NABL certificate of accreditation click report.kalyanilaboratories.com/images/NACNTC.pdf

Analysed By

D. Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

KLPL- 10021515B



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	: KLPL/01/25/ENVN/00443	Issue Date	: 01-Feb-2025	
Amendment No	: -	Amendment Date	: -	
Reference	: PO NUMBER :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	: 20-Jan-2025	Commenced On	: 20-Jan-2025	
		Completion On	: 01-Feb-2025	
Sample Name	: NOISE			
Sample Condition	: --			
Sample Collected By	: MR. SUDHIR KUMAR BARIK			
Ref.To Sampling Procedure	: KLPL/NOISE/SOP-23			
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : INSIDE CONTROL ROOM, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	58.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	48.5	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ADMIN OFFICE, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	63.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	51.8	IS 9989:1981 (RA 2014):2014
Location & Date : BOILER-1, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	69.7	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	60.0	IS 9989:1981 (RA 2014):2014
Location & Date : BOILER-2, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	71.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	61.8	IS 9989:1981 (RA 2014):2014
Location & Date : BOILER-3, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	70.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	62.7	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR COMPRESSOR HOUSE, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	71.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	50.3	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ESP ID FAN-3, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	70.7	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	60.0	IS 9989:1981 (RA 2014):2014
Location & Date : DM PLANT, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	63.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	52.4	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ESP ID FAN-1, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	68.4	IS 9989:1981 (RA 2014):2014





KALYANI LABORATORIES PVT.LTD.

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

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

TEST REPORT

Test Report No : KLPL/01/25/ENVN/00443 **Issue Date** : 01-Feb-2025
Amendment No : - **Amendment Date** : -
Reference : PO NUMBER : 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 : 20-Jan-2025 **Commenced On** : 20-Jan-2025 **Completion On** : 01-Feb-2025
Sample Name : NOISE
Sample Condition : --
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure : KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Noise Level Indl. Area (Night)	dB(A)	70	55.3	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ESP ID FAN-2, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	68.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	58.0	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ETP, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	59.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	49.4	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR MAIN GATE, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	56.3	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	50.6	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR PRIMARY CRUSHER, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	72.2	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	62.5	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR SECONDRY CRUSHER, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	67.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	63.1	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR STG CONDENSER, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	71.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	65.0	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR WAGON TIPLER, DATE-18.01.2025				
Noise Level Indl. Area (Day)	dB(A)	75	68.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	56.2	IS 9989:1981 (RA 2014):2014





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 : KLPL/01/25/ENVN/00443 **Issue Date** : 01-Feb-2025
Amendment No : - **Amendment Date** : -
Reference : PO NUMBER :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 : 20-Jan-2025 **Commenced On** : 20-Jan-2025 **Completion On**: 01-Feb-2025
Sample Name : **NOISE**
Sample Condition : --
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure : KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------

Remarks

Any unusual feature observed during determination :NIL
Requirement is as per standard specification Noise Rule 2000
The results relate only to samples tested and test parameters

Analysed 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

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

TEST REPORT

Test Report No : KLPL/02/25/ENVN/00465

Issue Date : 27-Feb-2025

Amendment No : -

Amendment Date : -

Reference : PO NUMBER : 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-Feb-2025 **Commenced On** : 22-Feb-2025 **Completion On** : 27-Feb-2025

Sample Name : NOISE

Sample Condition : -

Sample Collected By : MR. SUDHIR KUMAR BARIK

Ref.To Sampling Procedure : KLPL/NOISE/SOP-23

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
------------	------	-------------	---------	--------------------	-------------

Location & Date : NEAR TG SET, DT-21.02.2025

i	Noise Level Indl. Area (Day)	dB(A)	90	78.3	As Per Factories & boilers act	IS 9989:1981 (RA 2014):2014
ii	Noise Level Indl. Area (Night)	dB(A)	90	73.5	As Per Factories & boilers act	IS 9989:1981 (RA 2014):2014

REMARKS: As Per Customer Specific Standard.

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Confirmation statement as per decision rule , if applicable : -

To view "Terms & Conditions & NABL certificate of accreditation click report.kalyanilaboratories.com/images/NACNTC.pdf

Analysed By

Mr. Premesh Jena
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

KLPL- 10021530B1

KALYANI LABORATORIES PVT.LTD.



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



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

TEST REPORT

Test Report No	: KLPL/02/25/ENVN/00464	Issue Date	: 27-Feb-2025	
Amendment No	: -	Amendment Date	: -	
Reference	: PO NUMBER :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-Feb-2025	Commenced On :	22-Feb-2025	
		Completion On:	27-Feb-2025	
Sample Name	: NOISE			
Sample Condition	: --			
Sample Collected By	: MR. SUDHIR KUMAR BARIK			
Ref.To Sampling Procedure	: KLPL/NOISE/SOP-23			
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : INSIDE CONTROL ROOM, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	55.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	46.5	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ADMIN OFFICE, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	62.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	55.8	IS 9989:1981 (RA 2014):2014
Location & Date : BOILER-1, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	67.7	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	61.0	IS 9989:1981 (RA 2014):2014
Location & Date : BOILER-2, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	72.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	63.8	IS 9989:1981 (RA 2014):2014
Location & Date : BOILER-3, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	69.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	61.7	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR COMPRESSOR HOUSE, DATE-23.11.2024				
Noise Level Indl. Area (Day)	dB(A)	75	72.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	58.3	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ESP ID FAN-3, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	69.7	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	61.0	IS 9989:1981 (RA 2014):2014
Location & Date : DM PLANT, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	68.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	56.4	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ESP ID FAN-1, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	69.4	IS 9989:1981 (RA 2014):2014



KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

TEST REPORT

Test Report No	: KLPL/02/25/ENVN/00464	Issue Date	: 27-Feb-2025	
Amendment No	: -	Amendment Date	: -	
Reference	: PO NUMBER :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-Feb-2025	Commenced On :	22-Feb-2025	
		Completion On:	27-Feb-2025	
Sample Name	: NOISE			
Sample Condition	: --			
Sample Collected By	: MR. SUDHIR KUMAR BARIK			
Ref.To Sampling Procedure	: KLPL/NOISE/SOP-23			
Parameters	Unit	Standard Value	Results	Test Method
Noise Level Indl. Area (Night)	dB(A)	70	58.3	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ESP ID FAN-2, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	69.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	59.0	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ETP, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	56.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	47.4	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR MAIN GATE, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	58.3	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	52.6	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR PRIMARY CRUSHER, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	71.2	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	62.5	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR SECONDRY CRUSHER, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	68.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	64.1	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR STG CONDENSER, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	73.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	65.0	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR WAGON TIPLER, DATE-21.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	64.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	52.2	IS 9989:1981 (RA 2014):2014



KLPL- 10021632B3

KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

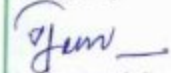
TEST REPORT

Test Report No	: KLPL/02/25/ENVN/00464	Issue Date	: 27-Feb-2025
Amendment No	: -	Amendment Date	: -
Reference	: PO NUMBER : 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-Feb-2025	Commenced On	: 22-Feb-2025
		Completion On	: 27-Feb-2025
Sample Name	: NOISE		
Sample Condition	: --		
Sample Collected By	: MR. SUDHIR KUMAR BARIK		
Ref.To Sampling Procedure	: KLPL/NOISE/SOP-23		
Parameters	Unit	Standard Value	Results
			Test Method

Remarks

Any unusual feature observed during determination : NIL
Requirement is as per standard specification Noise Rule 2000
The results relate only to samples tested and test parameters

Analysed By



Mr. Paremesh 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

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

TEST REPORT

Test Report No	: KLPL/03/25/ENVN/00508	Issue Date	: 04-April-2025	
Amendment No	: -	Amendment Date	: -	
Reference	: PO NUMBER :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-2025	Commenced On	: 28-Mar-2025	
		Completion On	: 04-April-2025	
Sample Name	: NOISE			
Sample Condition	: --			
Sample Collected By	: MR. SUDHIR KUMAR BARIK			
Ref.To Sampling Procedure	: KLPL/NOISE/SOP-23			
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : INSIDE CONTROL ROOM, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	53.4	IS 9889:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	45.5	IS 9889:1981 (RA 2014):2014
Location & Date : NEAR ADMIN OFFICE, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	61.6	IS 9889:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	54.8	IS 9889:1981 (RA 2014):2014
Location & Date : BOILER-1, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	66.7	IS 9889:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	62.0	IS 9889:1981 (RA 2014):2014
Location & Date : BOILER-2, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	71.6	IS 9889:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	62.8	IS 9889:1981 (RA 2014):2014
Location & Date : BOILER-3, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	67.6	IS 9889:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	60.7	IS 9889:1981 (RA 2014):2014
NEAR COMPRESSOR HOUSE, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	71.4	IS 9889:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	57.3	IS 9889:1981 (RA 2014):2014
Location & Date : NEAR ESP ID FAN-3, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	68.7	IS 9889:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	60.0	IS 9889:1981 (RA 2014):2014
Location & Date : DM PLANT, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	69.6	IS 9889:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	54.4	IS 9889:1981 (RA 2014):2014
Location & Date : NEAR ESP ID FAN-1, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	68.4	IS 9889:1981 (RA 2014):2014



KLPL- 10021537B

KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

TEST REPORT

Test Report No	: KLPL/03/25/ENVN/00508	Issue Date	: 04-April-2025	
Amendment No	: -	Amendment Date	: -	
Reference	: PO NUMBER : 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-2025	Commenced On :	28-Mar-2025	
		Completion On:	04-April-2025	
Sample Name	: NOISE			
Sample Condition	: --			
Sample Collected By	: MR. SUDHIR KUMAR BARIK			
Ref.To Sampling Procedure	: KLPL/NOISE/SOP-23			
Parameters	Unit	Standard Value	Results	Test Method
Noise Level Indl. Area (Night)	dB(A)	70	57.3	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ESP ID FAN-2, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	67.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	57.0	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR ETP, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	53.6	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	46.4	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR MAIN GATE, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	58.3	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	53.6	IS 9989:1981 (RA 2014):2014
NEAR PRIMARY CRUSHER, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	68.2	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	61.5	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR SECONDRY CRUSHER, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	67.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	62.1	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR STG CONDENSER, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	72.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	61.0	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR WAGON TIPLER, DATE-27.03.2025				
Noise Level Indl. Area (Day)	dB(A)	75	63.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	51.2	IS 9989:1981 (RA 2014):2014



KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

TEST REPORT

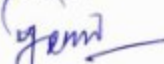
Test Report No : KLPL/03/25/ENVN/00508 **Issue Date** : 04-April-2025
Amendment No : - **Amendment Date** : -
Reference : PO NUMBER : FPPL/3100006601, DATE-8.11.2022
Customer Name : **POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.**
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 28-Mar-2025 **Commenced On** : 28-Mar-2025 **Completion On** : 04-April-2025
Sample Name : **NOISE**
Sample Condition : --
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure : KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------

Remarks : -

Any unusual feature observed during determination : NIL
Requirement is as per standard specification Noise Rule 2000
The results relate only to samples tested and test parameters

Analysed 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.

Kalyani Laboratories

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

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

TEST REPORT

Test Report No : KLPL/03/25/ENVN/00509
Issue Date : 04-April-2025
Amendment No : -
Amendment Date : -

Reference : PO NUMBER :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-2025 **Commenced On** : 28-Mar-2025 **Completion On** : 04-April-2025
Sample Name : **NOISE**
Sample Condition : -
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure : KLPL/NOISE/SOP-23

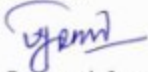
Parameters	Unit	Requirement	Results	Standard Reference	Test Method
Location & Date : NEAR TG SET,DT-27.03.2025					
i Noise Level Indl. Area (Day)	dB(A)	90	76.3	As Per Factories & boilers act	IS 9989:1981 (RA 2014):2014
ii Noise Level Indl. Area (Night)	dB(A)	90	72.5	As Per Factories & boilers act	IS 9989:1981 (RA 2014):2014

REMARKS: As Per Customer Specific Standard.

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Confirmation statement as per decision rule , if applicable : —

To view "Terms & Conditions & NABL certificate of accreditation click report.kalyanilaboratories.com/images/NACNTC.pdf

Analysed 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.

Annexure 9

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

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

TEST REPORT

Test Report No : KLPL/10/24/ENVN/00314**Issue Date** : 18-Oct-2024**Amendment No** : -**Amendment Date** : -**Reference** : PO NUMBER :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** : 09-Oct-2024 **Commenced On** : 09-Oct-2024 **Completion On** : 18-Oct-2024**Sample Name** : AMBIENT AIR QUALITY MONITORING**Sample Condition** : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG**Sample Collected By** : MR. SUDHIR KUMAR BARIK**Ref.To Sampling Procedure** : KLPL/SOP/AIR-20

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
------------	------	-------------	---------	--------------------	-------------

Location & Date : ADMIN BUILDING,DATE:-08.10.2024

i Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019
ii Sulphur Dioxide	µg/m ³	80	9.32	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
iii Nitrogen Dioxide	µg/m ³	80	13.39	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
iv Particulate Matter (PM10)	µg/m ³	100	71.30	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
v Particulate Matter (PM2.5)	µg/m ³	60	34.05	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02,Issue No.01:2017
vi Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.71	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vii Ozone (O3) (01 Hrs.)	µg/m ³	180	5.8	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-13:2019
viii 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
ix Ammonia (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05,Issue No.01: 2017
x Benzo (a) Pyrene (BaP)	µg/m ³	01	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019
xi Arsenic (as As)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10,Issue No.01: 2017
xii Nickel (Ni)	µg/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:-08.10.2024

i Sulphur Dioxide	µg/m ³	80	9.76	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
ii Nitrogen Dioxide	µg/m ³	80	15.19	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
iii Particulate Matter (PM10)	µg/m ³	100	68.64	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
iv Particulate Matter (PM2.5)	µg/m ³	60	29.92	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02,Issue No.01:2017
v Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019



KLPL-10019900B

Page 1 of 3



KALYANI LABORATORIES PVT.LTD.

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

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

Test Report No : KLPL/10/24/ENVN/00314

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
vi Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.68	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vii Ozone (O3) (01 Hrs.)	µg/m ³	180	6.6	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-13:2019
viii 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
ix Ammonia (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
x Benzo (a) Pyrene (BaP)	µg/m ³	01	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
xi Arsenic (as As)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xii Nickel (Ni)	µg/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01:2017

Location & Date : NEAR WAGAN GATE, DATE:- 08.10.2024

i Sulphur Dioxide	µg/m ³	80	7.3	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
ii Nitrogen Dioxide	µg/m ³	80	17.36	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
iii Particulate Matter (PM10)	µg/m ³	100	79.54	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
iv Particulate Matter (PM2.5)	µg/m ³	60	37.98	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	0.79	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vi Ozone (O3) (01 Hrs.)	µg/m ³	180	7.3	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-13:2019
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 (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
ix Benzo (a) Pyrene (BaP)	µg/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)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xi Nickel (Ni)	µg/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01:2017
xii Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 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 : KLPL/10/24/ENVN/00314

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
------------	------	-------------	---------	--------------------	-------------

Remarks: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

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

To view *Terms & Conditions & NABL certificate of accreditation click report.kalyanilaboratories.com/images/NACNTC.pdf

Analysed By

D Arukha

Mr Digambar Arukha

For Kalyani Laboratories Pvt. Ltd.



Authorised By

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

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

TEST REPORT

Test Report No : KLPL/11/24/ENVN/00374
Issue Date : 02-Dec-2024
Amendment No : -
Amendment Date : -

Reference : PO NUMBER : 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 : 23-Nov-2024 **Commenced On** : 23-Nov-2024 **Completion On** : 30-Nov-2024
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure : KLPL/SOP/AIR-20

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
Location & Date : ADMIN BUILDING, DATE:-23.11.2024					
i Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
ii Sulphur Dioxide	µg/m ³	80	9.20	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
iii Nitrogen Dioxide	µg/m ³	80	17.62	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
iv Particulate Matter (PM10)	µg/m ³	100	80.18	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
v Particulate Matter (PM2.5)	µg/m ³	60	42.02	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02, Issue No.01:2017
vi Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.81	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vii Ozone (O3) (01 Hrs.)	µg/m ³	180	6.8	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
viii 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
ix Ammonia (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
x Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
xi Arsenic (as As)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xii Nickel (Ni)	µg/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:-23.11.2024

i Sulphur Dioxide	µg/m ³	80	7.42	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
ii Nitrogen Dioxide	µg/m ³	80	14.17	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
iii Particulate Matter (PM10)	µg/m ³	100	62.30	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
iv Particulate Matter (PM2.5)	µg/m ³	60	27.03	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02, Issue No.01:2017
v Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 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 : KLPL/11/24/ENVN/00374

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
vi Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.62	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vii Ozone (O3) (01 Hrs.)	µg/m ³	180	5.3	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
viii 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
ix Ammonia (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
x Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
xi Arsenic (as As)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xii Nickel (Ni)	µg/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01:2017
Location & Date : NEAR WAGAN GATE, DATE:- 23.11.2024					
i Sulphur Dioxide	µg/m ³	80	7.42	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
ii Nitrogen Dioxide	µg/m ³	80	16.12	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
iii Particulate Matter (PM10)	µg/m ³	100	72.52	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
iv Particulate Matter (PM2.5)	µg/m ³	60	33.76	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	0.72	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vi Ozone (O3) (01 Hrs.)	µg/m ³	180	6.2	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 (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
ix Benza (a) Pyrene (BaP)	µg/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)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xi Nickel (Ni)	µg/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01:2017
xii Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019





Kalyani Laboratories

KALYANI LABORATORIES PVT.LTD.

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



+91 9861463904



M: kalyanilab@yahoo.co.in

Test Report No : KLPL/11/24/ENVN/00374

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
------------	------	-------------	---------	--------------------	-------------

Remarks:

--

Any unusual feature observed during determination : NIL

Customer information if any : NIL

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

To view *Terms & Conditions & NABL certificate of accreditation click report.kalyanilaboratories.com/Images/NACNTC.pdf

Analysed By

Mr Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised By

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

TEST REPORT

Test Report No : KLPL/12/24/ENVN/00419
Issue Date : 03-Jan-2025
Amendment No : -
Amendment Date : -

Reference : PO NUMBER :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 : 26-Dec-2024 **Commenced On** : 26-Dec-2024 **Completion On** : 2-Jan-2025
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure : KLPL/SOP/AIR-20

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
------------	------	-------------	---------	--------------------	-------------

Location & Date : ADMIN BUILDING,DATE:-24.12.2024

i Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019
ii Sulphur Dioxide	µg/m ³	80	9.19	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
iii Nitrogen Dioxide	µg/m ³	80	14.04	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
iv Particulate Matter (PM10)	µg/m ³	100	66.79	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
v Particulate Matter (PM2.5)	µg/m ³	60	34.34	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02,Issue No.01:2017
vi Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.66	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vii Ozone (O3) (01 Hrs.)	µg/m ³	180	6.3	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
viii 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
ix Ammonia (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05,Issue No.01: 2017
x Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019
xi Arsenic (as As)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10,Issue No.01: 2017
xii Nickel (Ni)	µg/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10,Issue No.01:2017

NEAR MAIN GATE,DATE:- 24.12.2024

i Sulphur Dioxide	µg/m ³	80	7.58	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
ii Nitrogen Dioxide	µg/m ³	80	13.38	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
iii Particulate Matter (PM10)	µg/m ³	100	71.52	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
iv Particulate Matter (PM2.5)	µg/m ³	60	30.31	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02,Issue No.01:2017
v Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019



KLPL- 10021501B

KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

Test Report No : KLPL/12/24/ENVN/00419

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
vi Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.71	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vii Ozone (O3) (01 Hrs.)	µg/m ³	180	5.8	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
viii 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
ix Ammonia (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
x Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
xi Arsenic (as As)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xii Nickel (Ni)	µg/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01:2017
Location & Date : NEAR WAGAN GATE, DATE:- 24.12.2024					
i Sulphur Dioxide	µg/m ³	80	8.03	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
ii Nitrogen Dioxide	µg/m ³	80	19.10	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
iii Particulate Matter (PM10)	µg/m ³	100	74.32	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
iv Particulate Matter (PM2.5)	µg/m ³	60	35.30	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	0.75	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vi Ozone (O3) (01 Hrs.)	µg/m ³	180	6.5	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 (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
ix Benza (a) Pyrene (BaP)	µg/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)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xi Nickel (Ni)	µg/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01:2017
xii Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019



KLPL- 10021502B

KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

Test Report No : KLPL/12/24/ENVN/00419

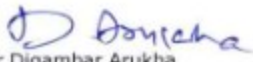
Parameters	Unit	Requirement	Results	Standard Reference	Test Method
------------	------	-------------	---------	--------------------	-------------

Remarks:

Any unusual feature observed during determination : NIL
Customer information if any : NIL
Confirmation statement as per decision rule , if applicable : --

To view "Terms & Conditions & NABL certificate of accreditation click report.kalyanilaboratories.com/Images/NACNTC.pdf

Analysed By



Mr Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised By



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 : KLPL/01/25/ENVN/00441

Issue Date : 01-Feb-2025

Amendment No : -

Amendment Date : -

Reference : PO NUMBER : 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 : 20-Jan-2025 **Commenced On** : 20-Jan-2025 **Completion On** : 01-Feb-2025

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Collected By : MR. SUDHIR KUMAR BARIK

Ref.To Sampling Procedure : KLPL/SOP/AIR-20

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
------------	------	-------------	---------	--------------------	-------------

Location & Date : ADMIN BUILDING, DATE:-18.01.2025

i	Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
ii	Sulphur Dioxide	µg/m ³	80	9.32	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
iii	Nitrogen Dioxide	µg/m ³	80	13.39	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) : 2006
iv	Particulate Matter (PM10)	µg/m ³	100	71.30	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) : 2006
v	Particulate Matter (PM2.5)	µg/m ³	60	34.05	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02, Issue No.01:2017
vi	Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.71	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vii	Ozone (O3) (01 Hrs.)	µg/m ³	180	5.8	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
viii	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
ix	Ammonia (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
x	Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
xi	Arsenic (as As)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xii	Nickel (Ni)	µg/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:-18.01.2025

i	Sulphur Dioxide	µg/m ³	80	9.76	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
ii	Nitrogen Dioxide	µg/m ³	80	15.19	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) : 2006
iii	Particulate Matter (PM10)	µg/m ³	100	68.64	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) : 2006
iv	Particulate Matter (PM2.5)	µg/m ³	60	29.92	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02, Issue No.01:2017
v	Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019

KLPL- 10020993B



KALYANI LABORATORIES PVT.LTD.

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

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

Test Report No : KLPL/01/25/ENVN/00441

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
vi Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.68	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vii Ozone (O3) (01 Hrs.)	µg/m ³	180	6.6	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
viii 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
ix Ammonia (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
x Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
xi Arsenic (as As)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xii Nickel (Ni)	µg/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017

Location & Date : NEAR WAGAN GATE, DATE:- 18.01.2025

i Sulphur Dioxide	µg/m ³	80	7.3	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
ii Nitrogen Dioxide	µg/m ³	80	17.36	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) : 2006
iii Particulate Matter (PM10)	µg/m ³	100	79.54	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) : 2006
iv Particulate Matter (PM2.5)	µg/m ³	60	37.98	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	0.79	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vi Ozone (O3) (01 Hrs.)	µg/m ³	180	7.3	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 (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
ix Benza (a) Pyrene (BaP)	µg/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)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xi Nickel (Ni)	µg/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xii Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019





Kalyani Laboratories

KALYANI LABORATORIES PVT.LTD.

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



+91 9861463904



M: kalyanilab@yahoo.co.in

Test Report No : KLPL/01/25/ENVN/00441

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
------------	------	-------------	---------	--------------------	-------------

Remarks:

--

Any unusual feature observed during determination : NIL

Customer information if any : NIL

Confirmation statement as per decision rule , if applicable : —

To view "Terms & Conditions & NABL certificate of accreditation click report.kalyanilaboratories.com/images/NACNTC.pdf

Analysed By

Mr. Paramesh Jena

For Kalyani Laboratories Pvt. Ltd.



Authorised By

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 : KLPL/02/25/ENVN/00463

Issue Date : 27-Feb-2025

Amendment No : -

Amendment Date : -

Reference : PO NUMBER :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-Feb-2025 **Commenced On** : 22-Feb-2025 **Completion On** : 27-Feb-2025

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Collected By : MR. SUDHIR KUMAR BARIK

Ref.To Sampling Procedure : KLPL/SOP/AIR-20

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
Location & Date : ADMIN BUILDING,DATE:-21.02.2025					
i Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019
ii Sulphur Dioxide	µg/m ³	80	9.48	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
iii Nitrogen Dioxide	µg/m ³	80	13.97	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
iv Particulate Matter (PM10)	µg/m ³	100	71.25	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
v Particulate Matter (PM2.5)	µg/m ³	60	31.68	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02,Issue No.01:2017
vi Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.71	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vii Ozone (O3) (01 Hrs.)	µg/m ³	180	3.6	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
viii 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
ix Ammonia (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05,Issue No.01: 2017
x Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 2019
xi Arsenic (as As)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10,Issue No.01: 2017
xii Nickel (Ni)	µg/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:-21.02.2025

i Sulphur Dioxide	µg/m ³	80	7.62	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
ii Nitrogen Dioxide	µg/m ³	80	14.55	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
iii Particulate Matter (PM10)	µg/m ³	100	75.44	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
iv Particulate Matter (PM2.5)	µg/m ³	60	34.23	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02,Issue No.01:2017
v Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07,Issue No.01: 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 : KLPL/02/25/ENVN/00463

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
vi Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.75	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vii Ozone (O3) (01 Hrs.)	µg/m ³	180	5.8	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
viii 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
ix Ammonia (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
x Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
xi Arsenic (as As)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xii Nickel (Ni)	µg/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01:2017

Location & Date : NEAR WAGAN GATE, DATE:- 21.02.2025

i Sulphur Dioxide	µg/m ³	80	10.20	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
ii Nitrogen Dioxide	µg/m ³	80	18.37	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) : 2006
iii Particulate Matter (PM10)	µg/m ³	100	80.60	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) : 2006
iv Particulate Matter (PM2.5)	µg/m ³	60	36.84	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	0.75	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vi Ozone (O3) (01 Hrs.)	µg/m ³	180	7.3	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 (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
ix Benza (a) Pyrene (BaP)	µg/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)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xi Nickel (Ni)	µg/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01:2017
xii Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019



KLPL- 10021535B 3

KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

Test Report No : KLPL/02/25/ENVN/00463

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
------------	------	-------------	---------	--------------------	-------------

Remarks: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

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

To view "Terms & Conditions & NABL certificate of accreditation click report.kalyanilaboratories.com/images/NACNTC.pdf

Analysed By



Mr. Parameesh Jena
For Kalyani Laboratories Pvt. Ltd.



Authorised By



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 : KLPL/03/25/ENVN/00506

Issue Date : 04-April-2025

Amendment No : -

Amendment Date : -

Reference : PO NUMBER : 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-2025 **Commenced On** : 28-Mar-2025 **Completion On** : 04-April-2025

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Collected By : MR. SUDHIR KUMAR BARIK

Ref.To Sampling Procedure : KLPL/SOP/AIR-20

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
------------	------	-------------	---------	--------------------	-------------

Location & Date : ADMIN BUILDING, DATE:-27.03.2025

i Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
ii Sulphur Dioxide	µg/m ³	80	7.42	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
iii Nitrogen Dioxide	µg/m ³	80	16.19	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
iv Particulate Matter (PM10)	µg/m ³	100	76.41	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
v Particulate Matter (PM2.5)	µg/m ³	60	34.64	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02, Issue No.01:2017
vi Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.76	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vii Ozone (O3) (01 Hrs.)	µg/m ³	180	4.4	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
viii 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
ix Ammonia (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
x Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
xi Arsenic (as As)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xii Nickel (Ni)	µg/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01:2017

NEAR MAIN GATE, DATE:- 27.03.2025

i Sulphur Dioxide	µg/m ³	80	8.99	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
ii Nitrogen Dioxide	µg/m ³	80	17.26	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
iii Particulate Matter (PM10)	µg/m ³	100	78.85	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
iv Particulate Matter (PM2.5)	µg/m ³	60	36.49	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-02, Issue No.01:2017
v Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019



KLPL- 10021505B

KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

Test Report No : KLPL/03/25/ENVN/00506

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
vi Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.78	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vii Ozone (O3) (01 Hrs.)	µg/m ³	180	5.8	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
viii 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
ix Ammonia (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
x Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019
xi Arsenic (as As)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xii Nickel (Ni)	µg/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017

Location & Date : NEAR WAGAN GATE, DATE:- 27.03.2025

i Sulphur Dioxide	µg/m ³	80	9.68	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-2) : 2001
ii Nitrogen Dioxide	µg/m ³	80	19.02	Requirement is as per standard specification NAAQS:2009	IS 5182 (PART 6) :2006
iii Particulate Matter (PM10)	µg/m ³	100	83.45	Requirement is as per standard specification NAAQS:2009	IS 5182(PART-23) :2006
iv Particulate Matter (PM2.5)	µg/m ³	60	37.29	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	0.78	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-19:2019
vi Ozone (O3) (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 (NH3)	µg/m ³	400	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-05, Issue No.01: 2017
ix Benza (a) Pyrene (BaP)	µg/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)	µg/m ³	06	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xi Nickel (Ni)	µg/m ³	20	<4.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-10, Issue No.01: 2017
xii Benzene (C6 H6)	µg/m ³	05	<1.0	Requirement is as per standard specification NAAQS:2009	KLPL/SOP/AIR-07, Issue No.01: 2019



KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

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

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

Test Report No : KLPL/03/25/ENVN/00506

Parameters	Unit	Requirement	Results	Standard Reference	Test Method
------------	------	-------------	---------	--------------------	-------------

Remarks: --

Any unusual feature observed during determination : NIL

Customer information if any : NIL

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

To view "Terms & Conditions & NABL certificate of accreditation click report.kalyanilaboratories.com/images/NACNTC.pdf

Analysed By



Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.



Authorised By



Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

ସର୍ବସାଧାରଣ ବିଜ୍ଞପ୍ତି

ଏତଦ୍ୱାରା ସର୍ବସାଧାରଣଙ୍କ ଅବଗତ କରିବା ଲିଖିତ କାର୍ଯ୍ୟକାରୀ ବିଧାନମାନଙ୍କ ଯେ, ମେସର୍ସ ଫେକର ପାଣ୍ଡାଲ ଲିମିଟେଡ୍, ଡି.ପି.ନଗର, ରାହିଆ, ଭଦ୍ରକରେ କୋଇଲାବିରିବି ଅର୍ମାଲ ପାଣ୍ଡାଲ ପ୍ରାକ୍ତନ ସ୍ଥାନରେ ନିମ୍ନ ଲିଖିତ ଓ ପରିବେଶ ସୁରକ୍ଷା ନିୟମାବଳୀରୁ ପରିବେଶ ସ୍ୱାକ୍ଷର ପ୍ରାପ୍ତ ହୋଇଅଛି । ଏହି ସ୍ୱାକ୍ଷର ପ୍ରାପ୍ତ କରି ରାଜ୍ୟ ପରିବେଶ ନିୟମାବଳୀରେ ପ୍ରାପ୍ତ ହେବ ଏବଂ ଏହା ପରିବେଶ ନିୟମାବଳୀର ଡେଭ୍‌ସାଲଟ୍ <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


Search on this site

[Home](#)
[About Us](#)
[Business](#)
[ESG](#)
[Media](#)
[People & Careers](#)
[Contacts](#)


Compliances


Home > ESG > Compliances

Search Compliances




Kalaranghatta Env Monitoring – March' 2023
PDF, 1.71 MB





Environment Clearance of Power Plant
PDF, 758.92 KB



HSE

CSR

Compliances

Ref. No: FACL/BDK/ SPCB/120/2024-25
Date: 28.09.2024

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 2023-24 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, 2024 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.

Sensitivity: Internal (CI)

ENVIRONMENTAL STATEMENT REPORT

**FOR THE FINANCIAL YEAR
2023-24**

IN RESPECT OF

**FERRO ALLOYS CORPORATION LIMITED
(POWERPLANT)**

**Randia, Bhadrak,
Odisha.**

FORM – V
(See Rule – 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-24

PART - A

01. Name and address of the : **M/s. Ferro Alloys Corporation Limited**
owner/occupier of the industry : **(Power Plant)**
operation 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 : 29.09.2023
Statement submitted

PART - B

WATER CONSUMPTION & RAW MATERIAL CONSUMPTION

1. <u>Water Consumption</u>	<u>M³/day (Max.)</u>
Process	58
Industrial Cooling	2522
Domestic (Potable)	68

2. Process Water Consumption

Name of the Products	Generation		Process water consumption / unit of Output	
	22-23	23-24	22-23	23-24
Power	290365 MWH	290536 MWH	3.31 m ³ /MW	3.31 m ³ /MW

3. Raw Material Consumption

Name of raw materials	Name of the product	Consumption of raw materials / unit of product output	
		22-23	23-24
Coal	Power	0.99 MT/MW	0.924 MT/MW
HSD	Power	4 to 5 KL in every startup	32 KL

PART - C

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

A: WATER

1. ETP Treated Water:

Sl. No.	Parameters	GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART-A: EFFLUENTS	Quantity of Pollutants Discharged (load)/ Effluent Parameter
01.	Color		<1 TCU
02.	Odour		Desirable
03.	Suspended Solids, mg/l	100	32
04.	Particulate size of suspended solids	Shall pass 850 micron IS sieve	

05.	pH	5.5 to 9	8.1
06.	Temperature (°C)	shall not exceed 5°C above the receiving water temperature	NA
07.	Oil & Grease		<1.0
08.	Total Residual Chlorine, mg/l	1.0	<0.05
09.	Ammoniacal nitrogen (as N), mg/l	50	5.6
10.	Total Kjeldahl Nitrogen (as NH ₃) mg/l	100	8.96
11.	Free Ammonia (NH ₃), mg/l	5.0	<1.0
12.	BOD of 27 °C mg/l	30.0	10.0
13.	Chemical Oxygen Demand (COD), mg/l	250	35.0
14.	Arsenic (As), mg/l	0.2	<0.001
15.	Mercury (Hg), mg/l	0.01	<0.0005
16.	Lead (Pb), mg/l	0.1	<0.005
17.	Cadmium (Cd), mg/l	2.0	<0.001
18.	Hexavalent Chromium (Cr ⁺⁶), mg/l	0.1	<0.01
19.	Total Chromium (Cr), mg/l	2.0	<0.05
20.	Copper (Cu), mg/l	3.0	<0.02
21.	Zinc (Zn), mg/l	5.0	<0.05
22.	Selenium (Se) , mg/l	0.05	<0.005
23.	Nickel (Ni), mg/l	3.0	<0.01
27.	Cyanide (CN), mg/l	0.2	<0.02
29.	Fluoride as F, mg/l	2.0	0.85
30.	Dissolved Phosphates (P), mg/l	5.0	<0.5
32.	Sulphide (S), mg/l	2.0	<0.1
33.	Phenolic compounds (C ₆ H ₅ OH) , mg/l	1.0	<0.001
34.	Radioactive Materials: a) Alpha emitter, micro curie/ml b) Beta emitter, micro curie/ml	a) 10 ⁻⁷ b) 10 ⁻⁶	a) 2.7*10 ⁻¹⁰ b) 8.1*10 ⁻¹⁰
35.	Bio-assay test	90% survival of fish after 96 hours in 100% effluent	90%
36.	Manganese (Mn), mg/l	2.0	<0.05
37.	Iron (Fe), mg/l	3.0	1.8
38.	Vanadium as V, mg/l	0.2	<0.008
39.	Nitrate Nitrogen, mg/l	10	9.0

2. Cooling Tower Blowdown

Parameters	Unit of Measurement	Standard as per CTO	Wastewater quality
Free available Chlorine	mg/l	0.5	0.3
Zinc as Zn	mg/l	1	0.49

Chromium (Total)	mg/l	2	<0.01
Phosphate as PO ₄	mg/l	5	3.3

3. Boiler Blowdown

Parameters	Unit of Measurement	Standard as per CTO	Wastewater quality
Total Suspended Solids as TSS	mg/l	100	8.8
Oil & Grease	mg/l	20	<1.0
Total Copper as Cu	mg/l	1	<0.02
Total Iron as Fe	mg/l	1	<0.05

4. STP Treated Water

Parameters	Unit of Measurement	Standard as per CTO	Treated water quality
Total Suspended Solids	mg/l	100	88
pH at 25°C	-	6.5-9.0	6.9
Biochemical Oxygen Demand (as BOD), 3 Days at 27°C	mg/l	30	5.0
Fecal Coliform (as FC)	MPN/100 ml	<1000	110

B. AIR

Sl.No.	Location	Pollutant concentration				
		PM (mg/Nm ³)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)		
01.	ESP outlet of CFBC Boiler	42.32	132.25	84.5		
		CO ₂ (%)	CO (%)	Hg (%)		
		8.1	<0.001	0.015		
02.	Ambient Air	PM 2.5 (µg/m ³)	PM 10 (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)
		39.83	82.43	10.58	18.52	0.58

PART – D

HAZARDOUS WASTE

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

Hazardous Waste	Total Quantity	
	22-23	23-24

Used Oil	1.36 KL	0 KL
Waste containing Oil	0T	0T
Spent Resin	0 KL	0 KL
ETP Chemical Sludge	0 MT	0 MT
Empty Containers	0 MT	0.98 MT

PART- E

SOLID WASTE

Source	Total Quantity (MT)	
	22-23	23-24
Fly ash from Silos	47306	100607
Bottom ash from Boiler	6493	16151

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 (23-24)	Characteristics of fly ash	Remarks
Fly ash & Bottom Ash	116758 MT	Al ₂ O ₃ – 23.5% Arsenic (As) - <0.005 Mg/Kg Cadmium <0.005 Mg/kg Calcium (As CaO)- 7.3% Chromium (as Cr) – 2.0 Mg/kg Fe ₂ O ₃ – 4.2% Lead (Pb) – 0.12 Mg/kg MgO – 1.5% Beryllium (as Be) <0.005 Mg/kg Mercury (as Hg) <0.005 Mg/kg SiO ₂ – 60% Barium (as Ba) <0.005 Mg/kg Nickel (as Ni)-0.15 Mg/kg	We have provided 3 nos. of flyash silo & 1 no bed ash silo of 800M ³ volume each for CFBC Boiler and we have pneumatic ash handling system to control fugitive emission. Then ash is unloaded from silo into trucks and utilize for Fly ash brick manufacturing plants and low-lying area land filling etc.

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 particulate matter emission.
3. We have installed 10KLD STP for sewage water treatment and recycling the water in gardening.
4. Similarly, 1000KLD Surface Runoff Treatment Plant has been installed to treat all runoff water inside the plant to achieve Zero Liquid Discharge.
5. To ensure cleanliness of outside public roads a Wheel washing system has been in operation to clean the wheel of vehicles.
6. Green belt has been developed inside the plant premises to achieve the statutory requirement as well as to act as a barrier to reduce the spreading of noise and dust pollution.
7. All internal roads have been concreted to reduce the fugitive dust emission inside the plant premises.
8. FPL has provided fixed and flexible water sprinkling system at various dusts generating area such as raw material carrying conveyer, coal circuit, rotary breaker etc. and also 1 no of mobile water tanker (capacity of 7KL) has been engaged for sprinkling of water at raw material yard, ash disposal site and inside & outside road of the factory.
9. Housekeeping has been taken on top priority and engaged 12 nos. of manpower 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- H

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

Expenditure for Environmental Protection FY 2023-24

i)	Supply and installation of IOT flowmeter in intake well	:	28,305/-
ii)	AMC for AAQMS & CEMS & data communication	:	4,18,160/-
iii)	Maintenance expenditure on ESP	:	6,80,000/-

iv)	Digital Flowmeters	:	50,730/-
v)	Energy consumption for Pollution control devices	:	33,33,880/-
vi)	Engagement of Labor for housekeeping & Plantation maintenance work	:	23,06,880/-
vii)	Engagement of Water Tanker for dust suppression	:	2,63,864/-
viii)	Deployment of Mechanical Road Sweeping Machine	:	2,74,350/-
ix)	Hazardous Waste Audit & Training	:	54,823/-
x)	Operation & Maintenance of STP	:	2,73,613/-

Investment Proposal for Environmental Protection FY 2024-25

- Performance Evaluation of Pollution Control Devices– Rs.16,000,00/-
- Performance Improvement and maintenance of Effluent Treatment Plant- Rs. 12,000,00/-
- Deployment of Truck mounted Mist cannon– Rs. 21,45,240/-
- Operational & Maintenance of Road sweeping machine O&M – Rs. 10,97,400/-

PART – I

Any other particulars for improving the quality of the environment

M/s 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 reuse the water in gardening. Similarly, 1000KLD Surface Runoff Treatment Plant has installed to treat all runoff water inside the plant to achieve Zero Liquid Discharge. Fly ash is being utilized in bricks plant. We are continuously developing greenbelt wherever the open space is available to improve the plant beautification as well as prevention of pollution.

