

Ref: FACOR/Bhadrak/HSE/01/2023-24  
Dtd.31.05.2023

**To**

**Deputy Director General of Forests (C),**  
Ministry of Env., Forest & Climate Change,  
Integrated Regional Office,  
A/3, Chandersekharpur,  
Bhubaneswar – 751023  
Email: [roez.bsr-mef@nic.in](mailto:roez.bsr-mef@nic.in)

**Ref :** 1. **Environment Clearance letter No.** F.No. J-11011/594/2008-IA.II(I) dtd. 31.10.2022  
2. **Name of the Project:** Expansion of Ferro Alloys Plant High Carbon Ferro Chrome production from 75000TPA to 145000TPA at Randia, District Bhadrak, Orissa by M/s. Ferro Alloys Corporation Ltd.

**Sub :** **Submission of Six Monthly Compliances Report against Environment Clearance letter No. : F.No. J-11011/594/2008-IA.II(I) dtd.31.10.2022 , issued to M/s. Ferro Alloys Corporation Ltd., for the period from October 2022 to March-2023.**

**Dear Sir,**

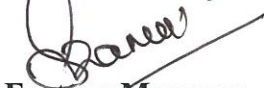
In compliance to the Stipulated Condition No.ix of the Environment Clearance letter No. . F.No. J-11011/594/2008-IA.II(I) dtd. 31.10.2022 issued by your good office, we are submitting herewith Six-Monthly Compliance Report with respect to Charge Chrome Plant of M/s Ferro Alloys Corporation Limited, situated at D.P.Nagar, Po-Randia, District-Bhadrak for the period from October 2022 to March 2023.

The monthly Environmental Monitoring data and other required information with respect to compliance of the said Environment Clearance for the period from October 2022 to March 2023 are also enclosed herewith as Annexure for your kind perusal and records.

Thanking you

Yours faithfully

**For Ferro Alloys Corporation Ltd.**



**Factory Manager**  
**Charge Chrome Plant**

Enclosed: As above.

Copy to: Director I.A. Division, Ministry of Environment and Forests, Paryavaran Bhawan, New Delhi

**Six Monthly Environmental Compliance Report  
For the period from Oct 2022 upto March 2023**

S.No		Conditions	Compliance of Conditions
	A.	<b>Specific Conditions</b>	
1	i	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Agree to abide.
2	ii	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	Carbon Assessment is under progress by M/s PWC. After receiving the final report, the action plan will be prepared accordingly.
3	iii	The project proponent shall strictly comply with the timelines as per submitted ATR on the partially/non-complied conditions of previous EC(s) observed by IRO. The revised timeline for installation of AAQMS and OCEMS shall be complied. The status of the same shall be submitted to IRO, MoEF&CC.	ATR compliance status has been submitted to IRO. Copy enclosed in Annexure-1. The timeline for installation of AAQMS & OCEMS has been complied and report has submitted to the Ministry within the stipulated time period. Copy enclosed in Annexure-2.
4	iv	The Salandi River (0.5 km, E) and Akhaupada High Level Main canal (0.5 km, S) exists within the study area of 10 km around the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters along with Soil conservation scheme and multiple Erosion control measures shall be implemented	Same will be complied based on the third party study report.
5	v	The PP shall undertake flood protection measures due to presence of Salandi river as committed.	Same will be complied based on the third party study report.
6	vi	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all conveyors point and on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.	a. PP is in process to provide Fog / Mist sprinklers to control fugitive emission. b. Vehicles are completely covered during transport of materials. c. Wheel washing system shall be installed in entry and exit gates of the plant.
7	vii	All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project	All internal road and connecting road from project site to main highway connected with PQC (Pavement Quality Concrete Road) construct as per the IRC guideline to maintain suitable with MSA standard as per the traffic load.
8	viii	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.	Performance test shall be conducted on all pollution control systems after effectively running of the equipment and report shall be submitted to the Regional Office.
9	ix	Particulate matter emission from stacks shall be less than 30 mg/Nm <sup>3</sup> .	Same shall be followed.
10	x	PP shall carry out periodically occupational health survey as per the applicable norms.	PP is being carried out periodical occupational health check-up annually.
11	xi	The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces	Same shall be followed.
12	xii	100% of the slag generated through the process shall be utilised.	Being followed.
13	xiii	The water requirement for the proposed project is estimated as 2521 KLD, out of which 1750 KLD of fresh water requirement shall be obtained from Ground water. Necessary permission shall be obtained from the Competent Authority in this regard. PP shall explore the possibility of shifting to alternate source of water to reduce dependency on groundwater	PP has applied to obtain authorization from CGWA for drawl of 1750KLD. However, the recycle water from rainwater harvesting pond, STP treated water, SRTP treated water etc shall be reused in various process to minimize the ground water extraction.
14	xiv	The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.	PP has already deisgned as a Zero Liquid Discharge plant. All the runoff water is been treated through SRTP and store in rainwater harvesting pond. STP has been installed to treat domestic waste water.
15	xv	The company shall also undertake rain water harvesting measures as per the plan submitted in the EIA/EMP report and reduce water dependence from the outside source.	Same shall be followed.
16	xvi	PP shall adopt nearby villages and prepare and implement a robust plan to develop them into model villages in next 10 years.	PP is working in nearby six gram panchayats in thematic areas of health, education, livelihood and community development.
17	xvii	Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.	Briquetting and Jigging plant is in operational.
18	xviii	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	E-waste are being disposed to OSPCB authorized Recycler.



*[Handwritten Signature]*

19	xix	Three tier Green Belt shall be developed in at least 33% of the project area in a time frame of one year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.	PP is having 33.05% of grebelt coverage. However Greenbelt assessment will be done by expert agency to monitor the type of species and survival rate and same shall be submitted to Regional Office of the MOEF & CC.
20	xx	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface	Being followed.
21	xxi	The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.	Same shall be followed.
22	xxii	The PP shall install CO sensors at the furnace top level and the monitoring report shall be submitted to the IRO, MOEFCC in this regard.	PP shall install CO sensors at the furnace top level and report shall be submitted to IRO, MOEFCC.
23	xxiii	All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.	The same will be complied and report shall be submitted to Regional Office of MOEF & CC.
24	xxiv	The PP shall strengthen the social entrepreneurship opportunities; strengthen Self Help Groups into SMEs; strengthen Health infrastructure in the surrounding nearby villages and the compliance report in this regard needs to be submitted to IRO, MoEFCC.	PP has initiated some opportunities to strengthen SHG like initiating workshop on leadership skill training and conducted health camps near by villages. Compliance report in this regard will be submitted to IRO, MOEF & CC.
25	xxv	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <a href="https://cpcb.nic.in/technical-guidelines-3/">https://cpcb.nic.in/technical-guidelines-3/</a> . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.	PP has initiated some awareness session on the ban of single use plastics. Circular from top Management has been shared to all employees and business partners on the ban of SUP. Report in this regard is enclosed in Annexure-3.
26	xxvi	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.	PP has installed bag filters and dust suppression system to control emissions. However we are going to install truck mounted Fog/Mist water cannons to adopt clean air practices.



	<b>B.</b>	<b>General Conditions</b>	
	<b>I.</b>	<b>Statutory compliance:</b>	
1	i	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	Agree to abide
	<b>II.</b>	<b>Air quality monitoring and preservation</b>	
1	i	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as two Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	PP has installed continuous emission monitoring for stack and one number of Continuous Ambient Air Quality Station has been installed inside the plant premises and the same is been interconnected with SPCB & CPCB online server. One more AAQMS will be installed.
2	ii	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories	The fugitive emission inside the plant premises is been monitored quarterly by NABL approved laboratory and report is enclosed in Annexure-4 .
3	iii	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards	PP has installed Gas Cleaning Plant (GCP) to control stack emission and water sprinklers to control fugitive emission.
4	iv	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	PP shall ensure to provide leakage detection and mechanized bag cleaning facilities for bag filters.
5	v	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.	All the raw material fines collected through pollution control devices are being recycle and reused for briquette & pellets making.
6	vi	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.	All the raw material are transporting through covered vehicle and conveying of ore & other raw material through covered conveyors.
7	vii	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	PP has installed fume extraction system to control primary and secondary emission.
8	viii	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Ventilation system has been designed as per requirement.
	<b>III.</b>	<b>Water quality monitoring and preservation</b>	
1	i	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30th May 2008; G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF); as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	PP will install continuous effluent monitoring system after commissioning of ETP and same will be connected to OSPCB & CPCB servers.
2	ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Ground water monitoring is being carried out by NABL accredited laboratories in piezometers / sampling wells in the plant. Report enclosed in Annexure-5 .
3	iii.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	PP has installed 10KLD Sewage Treatment Plant (STP) for treatment of domestic waste water and treated water are being utilized in gardening purpose.
4	iv.	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.	There is no rolling mills unit available. However we will treat backwash water from cooling tower through ETP and will be utilized for water sprinkling purpose.
5	v.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	PP has installed Surface Run-off Treatment Plant (SRTP) to collect all the runoff water during rain and after treatment water is being stored in rainwater harvesting pond and reuse in process.
6	vi.	Tyre washing facilities shall be provided at the entrance/exit of the plant gates.	Wheel washing system will be installed at the entrance/exit of the plant gates.



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	<b>IV. Noise monitoring and prevention</b>	
1	i.	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
		Noise quality monitoring are being carried out regularly as per Noise Pollution (Regulation and Control) Rules,2000. Report is enclosed in Annexure-6.
	<b>V. Energy Conservation measures</b>	
1	i.	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.
		PP has taken various energy conservation measures like; RE 2.8MW Solar energy, Solar street lights, Convention lights replaced by LED etc.
	<b>VI. Waste management</b>	
1	i.	Used refractories shall be recycled.
		PP will ensure to recycle the used refractories when generates.
2	ii.	Kitchen waste shall be composted or converted to biogas for further use.
		Kitchen waste are being composted and use in plantation as a organic manure.
	<b>VII. Green Belt</b>	
1	i.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.
		GHG Inventory is prepared and is under assurance process by M/s EY for FY23. PP will submit the programme for reduction of GHG emission including carbon sequestration.
2	ii.	Project proponent shall submit a study report on De-carbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
		Carbon Assessment is under progress by M/s PWC. After receiving the final report, the action plan will be prepared accordingly.
	<b>VIII. Public hearing and Human health issues</b>	
1	i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
		Emergency Preparedness Plan and Disaster Management Plan is available and implemented accordingly.
2	ii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act
		PP has carried out Qualitative & Quantitative analysis for heat stress those are working in high temperature work zone. All the appropriate PPE's are being provided to the workmen.
3	iii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.
		Periodical occupational health check-up of workers is being conducted annually and records are maintained.
	<b>IX. Environment Management</b>	
1	i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
		PP is working in nearby six gram panchayats in thematic areas of health, education, livelihood and community development in consultation with village Panchayat and District Administration.
2	ii.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
		Environment policy duly approved by the Board of Directors and Board resolution in this regard will be submitted to MoEF & CC.
3	iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
		A dedicated Environment Cell consisting of qualified personnel has been set up to look after environment management.



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X.		Miscellaneous	
1	i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied. Copy enclosed along with Annexure-7.
2	ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	PP has submitted the copies of the environmental clearances to the relevant local bodies, panchayats, municipal bodies and govt offices within the time period. Copy enclosed in Annexure-7 .
3	iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Being followed
4	iv.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	PP is monitoring the pollutants for ambient air and stack emission on monthly basis by NABL accredited lab. Copy enclosed in Annexure-8 . Digital display board has installed at main entrance point for public view and website of the company as well.
5	v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Being followed
6	vi.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Being followed, Copy enclosed in Annexure-9.
7	vii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Agree to abide
8	viii.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Agree to abide
9	ix.	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.	We will comply the stipulated condition
10	x.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Agree to abide
11	xi.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agree to abide



*[Handwritten signature]*

FACOR / Bhadrak / Legal / 160 / 2022

Dt. 30.09.2022

To

**The Deputy Director General of Forests (C)**  
Ministry of Environment, Forest & Climate Change  
Integrated Regional Office, A/3, Chandrasekharpur  
Bhubaneswar – 751023,  
Email: [roez.bsr-mef@nic.in](mailto:roez.bsr-mef@nic.in)

**Ref :** 1. Environment Clearance Proposal No. IA/OR/IND/5802/2009.  
2. Meeting dtd. 14. 09.2022 and 15.09.2022 of Expert Appraisal Committee of MOEF.  
3. Affidavit dtd. 14.09.2022 regarding undertaking for installation of OCEMS & CAAQMS.

**Sub :** Compliance to the Affidavit dtd. 14.09.2022 submitted to MOEF & CC during EAC meeting dtd. 14.09.2022 regarding undertaking for installation of OCEMS & CAAQMS in the Charge Chrome Plant of M/s Ferro Alloys Corporation Ltd.

Dear Sir,

We have applied expansion for existing Environment Clearance of our Charge Chrome Plant, Randia, Bhadrak of M/s Ferro Alloys Corporation Ltd. vide Proposal No. IA/OR/IND/5802/2009. During meeting dtd. 14. 09.2022 of Expert Appraisal Committee (EAC) of Ministry of Environment, Forest & Climate Change, Government of India, we have submitted Affidavit -cum- Undertaking in Non-Judicial Stamp paper that we will install Online Continuous Emission Monitoring Systems (OCEMS) in our Gas Cleaning Plant (GCP) and Online Ambient Air Quality Monitoring Stations (OAAQMS) in our Charge Chrome Plant by 30<sup>th</sup> September 2022 without fail.

In compliance to the above Affidavit -cum-Undertaking dtd. 14.09.2022 we do hereby intimate your good office that today i.e dtd. 30.09.2022, we have successfully installed the Online Continuous Emission Monitoring Systems (OCEMS) in our Gas Cleaning Plant (GCP) and Online Ambient Air Quality Monitoring Stations (OAAQMS) near our Administrative Building of our Charge Chrome Plant of M/s Ferro Alloys Corporation Ltd. The latest photographs of the same are enclosed herewith as a proof of installation of OCEMS and OAAQMS.

Further we also do hereby confirm that now all pollutant's Level analyser of OCEMS and OAAQMS have been operating smoothly and real time data are being successfully transferred to the authorised vender's server of M/s Focused Photonics Inc.

Trust the Affidavit -cum-Undertaking dtd. 14.09.2022 submitted to MOEF is compiled herewith.

**For Ferro Alloys Corporation Limited**



Authorized Signatory

Copy to: (1) The Member Secretary, Dr. R. B. Lal, Scientist 'E'/Additional Director, MOEF & CC, Indra Paryavaran Bhawan, Room No.V-304, Jor Bag Road, New Delhi, E-mail: [rb.lal@nic.in](mailto:rb.lal@nic.in).

(2) Member Secretary, Odisha Pollution Control Board, A-118, Nilakanta Nagar, Unit –VIII, Bhubaneswar – 751012. E mail : [paribeshi@ospboard.org](mailto:paribeshi@ospboard.org)

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](mailto:facor.mines@vedanta.co.in) / [facor.ccp@vedanta.co.in](mailto:facor.ccp@vedanta.co.in)

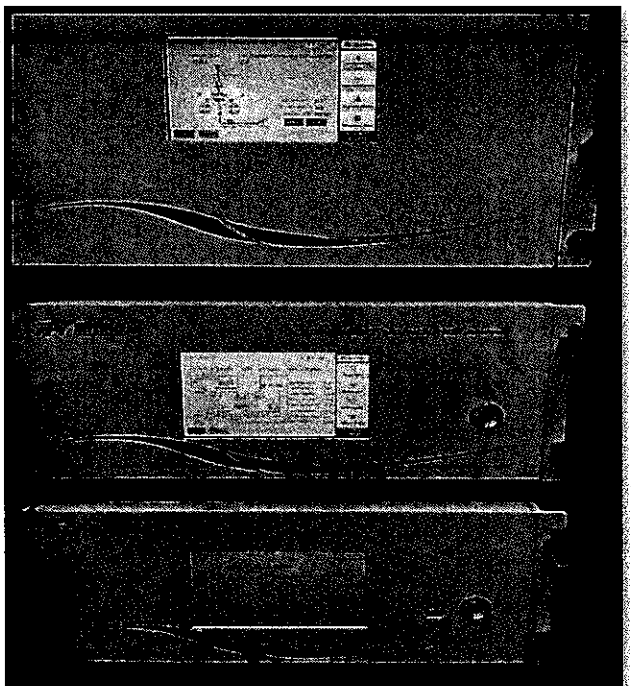
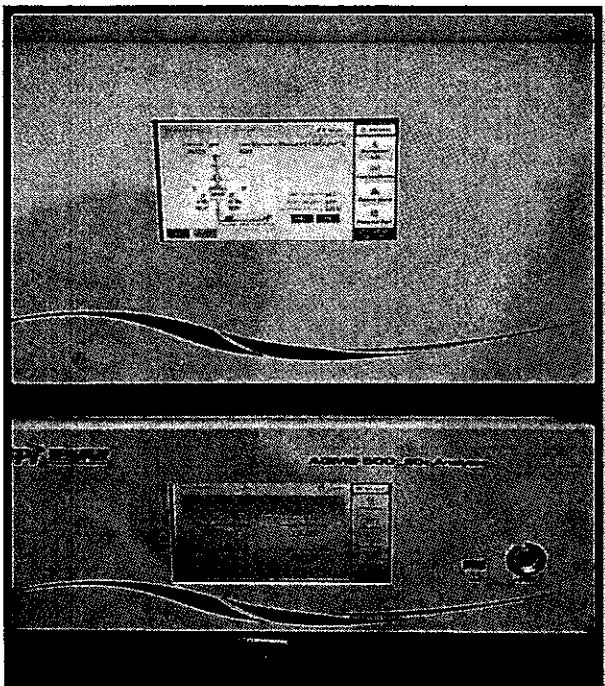
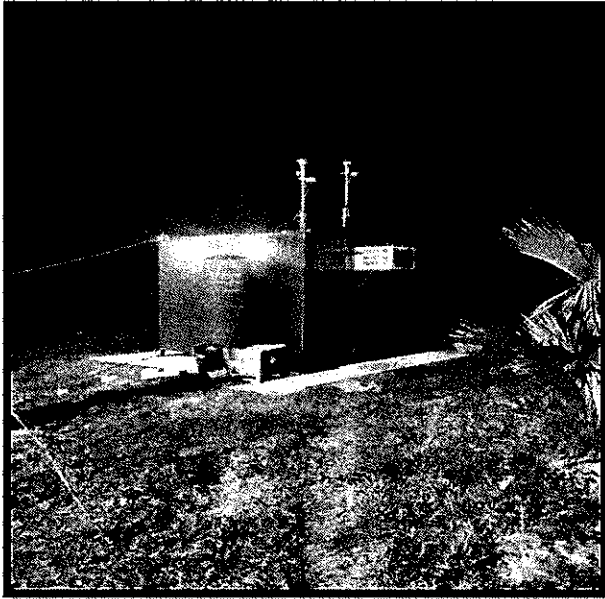
Website: [www.facorgroup.in](http://www.facorgroup.in), CIN: U45201OR1955PLC008400.

**Online Ambient Air Quality Monitoring Station (OAAOMS)**

***Charge Chrome Plant  
of M/s Ferro Alloys Corporation Ltd***

*Location: Near Administrative building*

*Date: 30.09.2022*



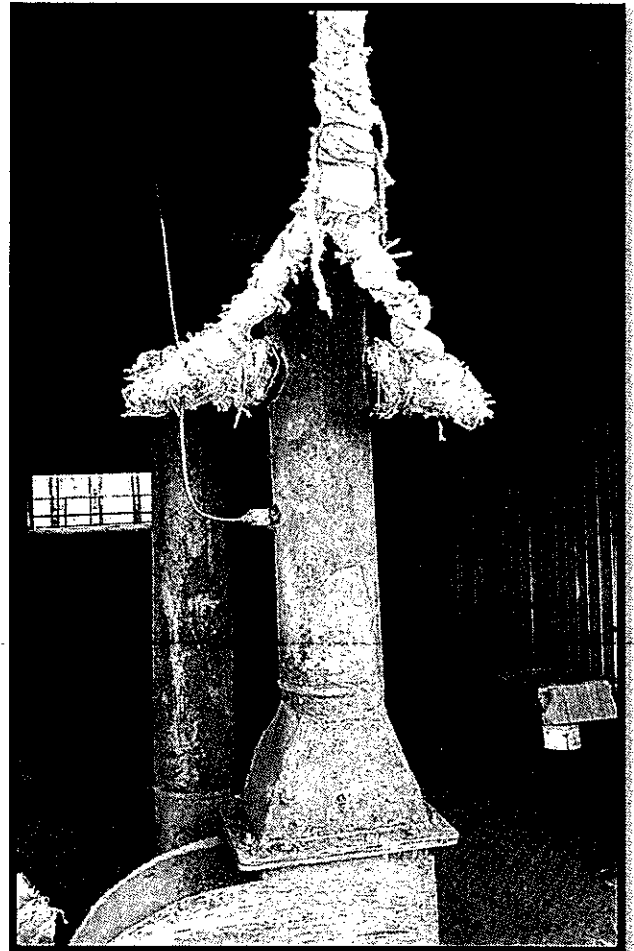
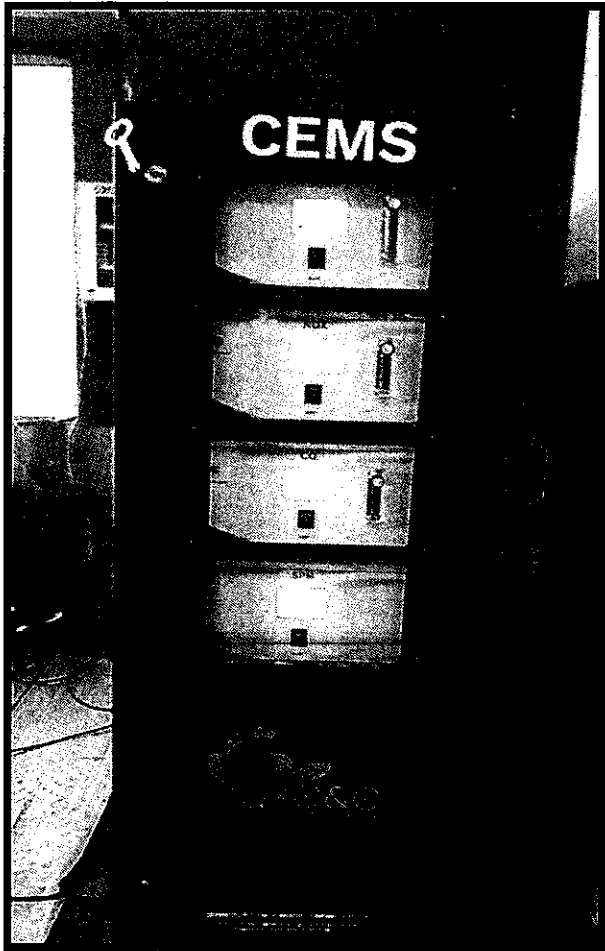


Online Continuous Emission Monitoring Systems (OCEMS)

*Charge Chrome Plant  
of M/s Ferro Alloys Corporation Ltd*

Location: Gas Cleaning Plant (GCP)

Date: 30.09.2022





Ref No: FACOR/HSE/EC/22/02  
Date: 29/08/2022

To,  
The Deputy Director General of Forests (C)  
Ministry of Environment, Forest & Climate Change,  
Integrated Regional Office,  
A/3, Chandersekharapur,  
Bhubaneswar - 751023  
Email: roez.bsr-moef@nic.in

Sub: Action taken report for the observations of RO visit on dated 24.06.2022 vide letter no 101-449/EPE/1080 of M/s Ferro Alloys Corporation Ltd. at Village-Randia, District-Bhadrak, Odisha

Ref: Letter issued by MoEFCC vide letter number 101-449/EPE/1080 dated 04.06.2022.

Respected Sir,

With reference to the above cited subject, we are enclosing herewith our Action Plan for the identified observations given in your above-mentioned report and our sincere commitment to comply all the conditions as deemed fit for your kind perusal, necessitating closure of all your observations to your satisfaction.

This is for your kind information and necessary action please.

Thanking You  
Sincerely

For M/s Ferro Alloys Corporation Ltd.

Authorized Signatory

Encl: As above.

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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 (C3)

**Action Taken Status Report of M/s Ferro Alloys Corporation Limited  
(Charge Chrome Plant) Based on the RO Visit Report**

Sl No	Observations	Action Taken Status	Commitments with Timeline
1	Continuous stack emission monitoring system has not been provided. During visit emission was also observed from one of the four emergency stack. Fume extraction system during tapping was found to be inadequate	Continuous stack emission monitoring system <b>is been ordered for installation along with AAQMS as on 06-08-2022. The copies of which are attached in Annexure 1</b> During the visit a schedule outage was taken for the furnace rebuild. After completion of rebuild job, the emission from emergency stack and tapping points are <b>controlled.</b>	31.12.2022
2	During visit metal recovery plant was not in operation. Dry fog dust suppression system yet to be provided at the metal recovery plant. Dust extraction system yet to be provided at the material unloading area.	We have installed 18 water sprinkling system for dust suppression in MRP area, which has <b>been</b> controlling our fugitive emission <b>to remain</b> within the stipulated standard. However we will install Dry Fog system in MRP and material unloading area <b>by December 2022.</b>	31.12.2022
3	Raw materials were found to be stored in covered shed as well as in open.	We have constructed one additional raw material covered shed of 85m x 15m size which can accommodate around 15420MT raw material and all the raw material storage area are concreted to act as a impervious layer. Photograph is enclosed in Annexure-2.	Already Complied
4	Maximum water use was in the month of July, 2021 for 38567KL, higher than the stipulated in the condition.	With reference to the permission accorded by CGWA vide letter no. 21-4(74)/SER/CGWA/2008-1281, dated 24th October'2008, the project proponent had obtained NOC for <b>withdrawal</b> of 1422m3/day ground water, based on which the EC was granted on 2009 and subsequently on 15th April'2014 and 19th September'2017 respectively. The observed quantity for the month of July'21 translate to 1244m3/day of water consumption which is within the <b>permissible</b> limit of 1422m3/day.	Justified as given

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.

5	Secured landfills have not been constructed as per the condition of EC	After recovery of the metal slag tailings are being stored in the slag storage yard. After due TCLP test 100% of the slag is been utilized in various construction, road making & low lying area development inside & outside the premises as per the authorization from OSPCB. Copy enclosed in Annexure-3. Therefore there is no need of a SLF for the slag to be stored as hazardous material.	Justified as given
6	As per the report submitted by the PP total 37,730 seedling have been planted in an area of 21.3 Ha. (52.63 acre). PP furnished an undertaking to achieve 33% greenbelt by 31st July, 2023	<p>During filing of application for Environment Clearance, the earlier submitted data regarding Green Belt area of our Charge Chrome Plant of M/s. Ferro Alloys Corporation Ltd. located at Randia of Bhadrak District was collected from the old records maintained and available with the ex-promoters of FACOR.</p> <p>After completion of CIRP process and approval of Resolution Plan vide order dtd. 30.01.2020 of Hon'ble Court of NCLT Cuttack Bench, the new Board has been constituted on 21.09.2020. To implement the provision of the approved Resolution Plan and to comply all statutory requirements, the present management has recently conducted the Drone DGPS Survey of the total plant area from the authorized and empanelled agency of Orissa Space Application Centre (ORSAC). Now according to the latest Drone DGPS Survey report, the total Green belt area of the plant is around 67.918 Acre which is 33.05 % out of the total plant area of 205.50 Acre. Latest DGPS Survey Map is enclosed herewith for your reference and records in <b>Annexure - 4</b>.</p> <p>Apart from the above, we have started regular plantation drive in our plant site and also have targeted to plant around 30,000 saplings by the end of September 2022 to intensify the plantation program as well as to fill out the Gaps.</p>	<b>Complied</b>

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		GAPs have been covered with greenbelt in admin building, canteen, agglomeration plant, MRP area, boundary side, colony area, internal roadside etc. Photograph of which is attached in <b>Annexure- 5</b> .	
7	Utilization of solid waste, installation of continuous stack monitoring and setting up of online ambient air quality monitoring station, to study the possibility of slag transportation back to the abandoned mines, etc. are yet to be implemented satisfactorily	We are utilizing 100% of the slag as alternative construction material as well as land filling for which authorization has been obtained from OSPCB. As per clause no.1 above, we are committing to complete the installation of online CEMS by 31st December '2022, for which PO has already been placed as on 6-08-2022.	31.12.2022
8	<p>During visit some construction work has been observed in the premises. It has been reported that the date of land development work for expansion as 29th April, 2017. As per the document furnished piling work at the location of furnace has been initiated during 2017.</p> <p>On perusal of the accorded Environmental clearance and amendment issued to the project it was observed that the validity of the environmental clearance dated 04.05.2009 was extended till 03.05.2019 vide letter dated 13.01.2017.</p> <p>As per the EC accorded production capacity of one furnace is 65,000 TPA. Production detail reported for the year 2019-20, 2020-21 and 2021-22 as 72766 MT, 68331.01 MT and 74995.58 MT respectively.</p>	<p>The observations and respective document verifications during RO visit indicates that the observed constructions were done during the validity of EC period i.e, as on 03/05/2019. For the then proposed expansion project.</p> <p>The production quantity has always been maintained within the permissible limit as per CTO in line with accorded EC.</p>	Justified as given

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	<p>PP furnished no increase pollution load certificate from NIT Rourkela for change in production from 65000TPA to 75000TPA.</p> <p>PP also furnished a copy of the acknowledgement slip for Expansion of Production of HC Ferro Chrome from 75000 TPA to 80000 TPA plus 6300 TPA from Metal Recovery Plant for which certificate has not been issued by SPCB with a direction to submit the copy of acknowledgement in support of no increase in pollution load certificate application in Paribesh portal for 65000TPA to 75000TPA.</p> <p>CTO has been accorded by OSPCB vide letter No.4949 dated 29.03.2022 for Charge chrome/High Carbon Ferro Chrome of 750000 metric tonne/annum (Arc furnace of 45 MVA) and charge chrome (metal recovery plant of 6300 metric tonne/annum).</p> <p>The specification/direction issued by SPCB in this matter should be strictly adhered to.</p>		
9	Copy of EIA/EMP of the project to be submitted to the Regional Office	Copy of EIA/EMP of the project is already submitted for your kind reference.	17.08.2022

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10	The date of financial closure and final approval of the project may be communicated to this office.	M/s. Ferro Alloys Corporation Limited (FACOR) was under Corporate Insolvency Resolution Process (CIRP) under the Insolvency and Bankruptcy Code, 2016. Hon'ble National Company Law Tribunal, Cuttack Bench, <i>vide</i> its order dated 30.01.2020 has approved the Resolution Plan of Vedanta Group. Pursuant to the said order of NCLT Cuttack, the Board of Directors of the Company has been newly constituted on dt.21.09.2020 to implement the approved Resolution Plan. Hence the date of financial closure and final approval of the project by the authority of the Project Proponent was on 21.09.2020. The closure document is attached for your perusal. This board resolution is attached in <b>Annexure- 6</b>	The Financial closure of the proposed expansion shall be submitted after due implementation of the project.
----	---	---	---

Place: Randia, Bhadrak

Date: 29<sup>th</sup> August 2022

Encl: As above.

Thanking You  
Sincerely

For M/s Ferro Alloys Corporation Ltd.



Authorized Signatory

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

**Registered Office:**

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

Awareness Session on No Single Use Plastic





## Umar Muktar MB

---

**From:** Balwant Singh Rathore  
**Sent:** 26 December 2022 19:36  
**To:** Facor.All  
**Cc:** Sunil Duggal; Rajinder Singh Ahuja  
**Subject:** SAY NO TO SINGLE USE PLASTIC

Pl ignore the earlier one



## SAY NO TO SINGLE USE PLASTIC

Earth is our friend and gifted with resources to make life exist. Single Use Plastic (SUP) has stretched itself to every corner of the globe. SUP makes a larger part of the total waste generated choking our food & watercourse poisoning and affecting health & well-being of humans and wildlife, this will lead into disastrous effects in climate change and global warming.

We must make conscious efforts to develop and improve ourselves in our pursuit of building a sustainable future. Plastic waste accumulation can act as a threat to our ecosystem development.

We at FACOR have to unite and take initiatives to beat Single Use Plastic by managing responsible consumption, proper disposal & reuse. Therefore, as an organization, we have decided to ban the use of Single Use Plastic below from **1st January 2023** and shift to other environmentally friendly materials.

This step is applicable to all the Units, Offices, and townships and we expect all employees and Business partner employees to comply the same

#### The Items to be Banned are:

- Earbuds with plastic sticks, plastic sticks for balloons, plastic flags, candy sticks, ice cream sticks, polystyrene (Thermocol for decoration plates, cups, glasses, cutlery such as forks, spoons, knives, straw trays, wrapping or packing films around sweet boxes invitation cards, and cigarette packets, plastic, or PVC banners less than 100 micron, stirrers

#### Advisory to Keep Away from

- All plastic carry tings, with or without bundles, respective of thickness and size
- PET plastic water bottles
- Food packages and containers
- Artificial flowers, banners, flags, flowerpots

All units are advise to switch to reusable items that act as alternative for plastic and to use the multi-use material that can reused for continuous process.

We are together, bound in a life cycle to help save environment from plastics.

**Balwant Singh Rathore**  
CEO - FACOR, Vedanta



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



**NABL ULR NO** : TC704323000015754P  
**Test Report No** : KLPL/1/23/ENVN/02118E  
**Amendment No** : -  
**Reference** : P.O NO-FPPL/3100006601,DATE-8.11.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.  
**Date of receipt** : 28-Jan-2023      **Commenced On** : 28-Jan-2023      **Completion On**: 30-Jan-2023  
**Sample Name** : AIR QUALITY MONITORING (FUSITIVE DUST)  
**Sample Condition** : -  
**Quantity** : 4 NOS  
**Ref.To Sampling Procedure**: QSP-07

**Issue Date** : 06-Feb-2023  
**Amendment Date** : -

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date</b> : AUTO GARAGE DATE-23.01.2023				
Fusitive Dust	µG/M <sup>3</sup>	1200	219.24	Guidelines of AMBIENT AIR POLLUTANTS VOL-I, V-II, CPCB
<b>Location &amp; Date</b> : ADMIN BUILDING ,DATE-23.01.2023				
Fusitive Dust	µG/M <sup>3</sup>	1200	356.14	Guidelines of AMBIENT AIR POLLUTANTS VOL-I, V-II, CPCB
<b>Location &amp; Date</b> : FURNACE AREA , DATE-23.01.2023				
Fusitive Dust	µG/M <sup>3</sup>	1200	388.15	Guidelines of AMBIENT AIR POLLUTANTS VOL-I, V-II, CPCB
<b>Location &amp; Date</b> : AGGLOMERATION , DATE-23.01.2023				
Fusitive Dust	µG/M <sup>3</sup>	1200	545.61	Guidelines of AMBIENT AIR POLLUTANTS VOL-I, V-II, CPCB

**Remarks** : -

Any unusual feature observed during determination :

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

*D. Ananta*  
 Analysed By  
 For Kalyani Laboratories Pvt. Ltd.

*Prof. J. S. Nayak*  
 Authorised Signatory  
 For Kalyani Laboratories Pvt. Ltd.





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/941, MILLENNIUM CITY PAHAL, BHUBANESWAR-751002, ODISHA

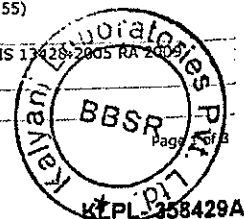
## TEST REPORT



**NABL ULR NO** : TC704323000015402P  
**Test Report No** : KLPL/12/22/WATER/07805 **Issue Date:** 03-Jan-2023  
**Amendment No** : - **Amendment Date** : -  
**Reference** : PO NUMBER :4920054932,PO DATE :24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.  
**Date of receipt** : 23-Dec-2022 **Test Commenced On** : 23-Dec-2022 **Test Completion On:** 30-Dec-2022  
**Sample Description** : DRINKING WATER (IS 10500:2012 )

**Sample Condition** : SEALED **Sampling Date** : 22-Dec-2022  
**Sample Identification \*** : GROUND WATER (BOREWELL-01) **EXP Date** : NA  
**Batch No , Lot No** : NA **MFG Date** : NA  
**Received Quantity** : 1LTR X 2 NOS  
**Sample Collected By** : By KLPL  
**Ref.To Sampling Procedure:** QSP-07

Parameters	Unit	Requirement	Result	Test Method
<b>BACTERIOLOGICAL QUALITY</b>				
i E.coli	MPN/100ml.	Shall not be detected in any100ml. Sample	<2	IS 1622:1981 RA 2009
ii Total Coliforms	MPN/100 ml	Shall not be detected in any 100 ml sample	<2	IS 1622:1981 RA 2009
<b>CHEMICAL PARAMETER</b>				
i Chloride (as Cl)	mg/l, Max	250	34	IS 3025 (Part 32):1988 RA 2009
ii Free residual chlorine	mg/l, Min	0.2	<0.04	IS 3025 (Part 26):1986 RA 2009
iii Iron (as Fe)	mg/l, Max	1	<0.05	IS 3025 (Part 53):2003 RA 2014
iv Total hardness (as CaCO <sub>3</sub> ),	mg/l, Max	200	164	IS 3025 (Part 21):2009
v Nitrate as NO <sub>3</sub>	mg/l, Max	45	0.4	IS 3025 (PART 34): 1988 RA 2003
vi Calcium (as Ca)	mg/l, Max	75	56	IS 3025 (Part 40):1991 RA 2009
vii Copper (as Cu)	mg/l, Max	0.05	<0.02	IS 3025 (Part 42):1992 RA 2009
viii Fluoride (as F)	mg/l, Max	1	0.56	IS 3025 (Part 60):2008
ix Magnesium (as Mg)	mg/l, Max	30	5.83	IS 3025 (Part 46):1994 RA 2003
x Manganese (as Mn)	mg/l, Max	0.1	<0.05	IS 3025 (Part 59):2006 RA 2012
xi Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/l, Max	0.001	<0.001	IS 3025 (Part 43):1992 RA 2009
xii Sulphate (as SO <sub>4</sub> )	mg/l, Max	200	25	IS 3025 (Part 24):1986 RA 2009
xiii Ammonia	mg/l, Max	0.5	<0.3	IS 3025 (Part 34): 1988 RA 2003
xiv Mineral oil	mg/l, Max	0.5	<0.5	Clause 6 of IS 3025 (Part- 39):1991 RA 2003
xv Selenium (as Se)	mg/l, Max	0.01	<0.005	IS 3025 (Part 56):2003 RA 2009
xvi Total alkalinity (as CaCO <sub>3</sub> ),	mg/l, Max	200	172	IS 3025 (Part 23):1986 RA 2009
xvii Zinc (as Zn)	mg/l, Max	5	<0.05	IS 3025 (Part 49):1994 RA 2009
xviii Sulphide	mg/l, Max	0.05	<0.05	APHA 22nd Edition (4500-52--F)
xix Aluminum (as Al)	mg/l,Max	0.03	<0.02	IS 3025 (part-55)
xx Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	<0.1	Annex - K OF IS 13428:2005 RA 2009



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

Kalyani Laboratories

Test Report No : KLPL/12/22/WATER/07805



Parameters	Unit	Requirement	Result	Test Method
xxi Boron (as B)	mg/l, Max	0.5	<0.1	Annex H OF IS 13428 : 2005 RA 2009
xxii Chromium (as Cr)	mg/l, Max	0.05	<0.02	Annex J OF IS 13428 : 2005 RA 2009
xxiii Barium (as Ba)	mg/l, Max	0.7	<0.2	Annex F of IS 13428 RA 2012
xxiv Silver (as Ag)	mg/l, Max	0.1	<0.005	Annex J of IS 13428 : 2005 RA 2009
xxv Molybdenum (as Mo)	mg/l, Max	0.07	<0.02	IS 3025 (Part 2): 2002
xxvi Chloramines (Cl <sub>2</sub> )	mg/l, Max	0.2	<1.0	IS 3025 (Part 26):2009
xxvii Total Chromium	mg/l, Max	0.05	<0.02	IS 3025 (PART 52): 2003 RA 2009
xxviii Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	<0.0001	APHA 22nd Edition (6440)
xxix Polychlorinatedbiphenyls	mg/l, Max	0.0005	<0.00005	APHA 22nd Edition 6630
xxx Bromoform	mg/l, Max	0.1	<0.1	APHA 22nd Edition 6232
xxxi Dibromochloromethane	mg/l, Max	0.1	<0.1	APHA 22nd Edition 6232
xxxii Chloroform	mg/l, Max	0.1	<0.2	APHA 22nd Edition 6232
xxxiii Bromodichloromethane	mg/l, Max	0.1	<0.06	APHA 22nd Edition 6232
<b>PESTICIDE</b>				
i p p DDE	µg/l, Max	1.0	<0.05	USEPA 508
ii p p DDD	µg/l, Max	1.0	<0.05	USEPA 508
iii p p DDT	µg/l, Max	1.0	<0.05	USEPA 508
iv o p DDT	µg/l, Max	1.0	<0.05	USEPA 508
v o p DDD	µg/l, Max	1.0	<0.05	USEPA 508
vi o p DDE	µg/l, Max	1.0	<0.05	USEPA 508
vii α-HCH	µg/l, Max	0.01	<0.01	USEPA 508
viii β-HCH	µg/l, Max	0.04	<0.01	USEPA 508
ix γ-HCH	µg/l, Max	0.04	<0.01	USEPA 508
x Lindane	µg/l, Max	2.0	<0.01	USEPA 508
xi Endosulfan a	µg/l, Max	0.4	<0.01	USEPA 508
xii Endosulfan sulphate	µg/l, Max	0.4	<0.01	USEPA 508
xiii Monocrotophos	µg/l, Max	1.0	<0.01	USEPA 8141 A
xiv Chlorpyrifos	µg/l, Max	30	<0.01	USEPA 8141 A
xv Phorate	µg/l, Max	2.0	<0.01	USEPA 8141 A
xvi Isoproturon	µg/l, Max	9.0	<0.01	USEPA 532
xvii Methyl Parathion	µg/l, Max	0.3	<0.01	USEPA 8141 A
xviii Malathion	µg/l, Max	190	<0.01	USEPA 8141 A
xix Aldrin	µg/l, Max	0.03	<0.01	USEPA 508
xx Endosulfan β	µg/l, Max	0.4	<0.01	USEPA 508
xxi 2,4-D	µg/l, Max	30	<0.05	USEPA 515.1





Test Report No : KLPL/12/22/WATER/07805

Parameters	Unit	Requirement	Result	Test Method
xxii Butachlor	µg/l, Max	125	<0.01	USEPA 8141 A
xxiii Alachlor	µg/l, Max	20	<0.01	USEPA 507
xxiv Atrazine	µg/l, Max	2.0	<0.01	USEPA 8141 A
xxv Dieldrin	µg/l, Max	0.03	<0.01	USEPA 508
xxvi Ethion(Residue to be Determined as ethion and its oxygen analogue and expressed as ethion)	µg/l, Max	3.0	<0.01	USEPA 1657 A
<b>PHYSICAL PARAMETER</b>				
i Colour	Hazen, Max	5	<1.0	IS 3025 (Part 4):1983 RA 2012
ii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iii pH value	---	6.5-8.5	6.8	IS 3025 (Part-11):1983, RA 2012
iv Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
v Turbidity	NTU, Max	1	0.6	IS 3025 (Part 10):1984 RA 2006
vi Total dissolved solids	mg/l, Max	500	308	IS 3025 (Part 16):1984 RA 2006
<b>TOXIC SUBSTANCES</b>				
i Cadmium (as Cd)	mg/l, Max	0.003	<0.001	IS 3025 (Part 41):1992 RA 2009
ii Cyanide (as CN)	mg/l, Max	0.05	<0.02	IS 3025 (Part 27):1986 RA 2009
iii Lead (as Pb)	mg/l, Max	0.01	<0.005	IS 3025 (Part 47):1994 RA 2009
iv Mercury (as Hg)	mg/l, Max	0.001	<0.0005	IS 3025 (Part 48):1994 RA 2009
v Total arsenic (as As)	mg/l, Max	0.01	<0.001	IS 3025 (Part 37):1988 RA 2009
vi Nickel (as Ni)	mg/l, Max	0.02	<0.01	IS 3025 (Part 54): 2003 RA 2009

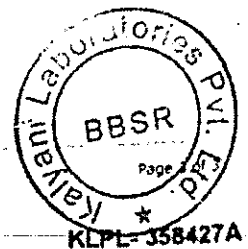
Remarks :

Any unusual feature observed during determination

End of Test Report

*D Anuraj*  
Analysed By  
For Kalyani Laboratories Pvt. Ltd.

*[Signature]*  
Authorized Signatory  
For Kalyani Laboratories Pvt. Ltd





# KALYANI LABORATORIES PVT. LTD.

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

**NABL ULR NO** : TC704322000014459P

## TEST REPORT



**Test Report No** : 1521 | KLPL/10/22/ENVN/01890  
**Amendment No** : -  
**Reference** : PO NUMBER :4920054932, PO DATE :24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135, BHADRAK, ODISHA.  
**Date of receipt** : 24-Oct-2022  
**Commenced On** : 24-Oct-2022  
**Completion** : 24-Oct-2022  
**Sample Name** : NOISE  
**Sample Condition** : -  
**Quantity** : 17 NOS  
**Ref.To Sampling Procedure:** QSP-07

**Issue Date** : 04-Nov-2022

**Amendment Date** : -

Parameters	Unit	Standard Value	Results	Test Method
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**Location & Date** : NEAR 45MVA FURNACE - 21.10.2022

Noise Level Indl. Area (Day)	dB	75	71.2	IS 9989:1981 (RA 2014)
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Noise Level Indl. Area (Night)	dB	70	64.3	IS 9989:1981 (RA 2014)
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**Location & Date** : NEAR ADMINISTRATIVE BUILDING - 20.10.2022

Noise Level Indl. Area (Day)	dB	75	53.1	IS 9989:1981 (RA 2014)
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Noise Level Indl. Area (Night)	dB	70	44.0	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

**Location & Date** : NEAR AGGLOMERATION PLANT - 20.10.2022

Noise Level Indl. Area (Day)	dB	75	76.5	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

Noise Level Indl. Area (Night)	dB	70	66.3	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

**Location & Date** : NEAR AUTO GARAGE - 22.10.2022

Noise Level Indl. Area (Day)	dB	75	60.0	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

Noise Level Indl. Area (Night)	dB	70	52.7	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

**Location & Date** : NEAR BRIQUETTE STORAGE AREA - 21.10.2022

Noise Level Indl. Area (Day)	dB	75	69.0	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

Noise Level Indl. Area (Night)	dB	70	60.0	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

**Location & Date** : NEAR CENTRAL STORE - 21.10.2022

Noise Level Indl. Area (Day)	dB	75	52.5	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

Noise Level Indl. Area (Night)	dB	70	40.5	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

**Location & Date** : NEAR DRYER PLANT (AGGLOMERATION) - 21.10.2022

Noise Level Indl. Area (Day)	dB	75	78.5	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

Noise Level Indl. Area (Night)	dB	70	69.5	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

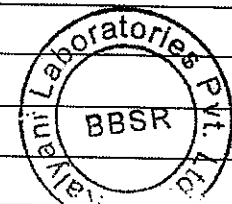
**Location & Date** : NEAR FACOR COLONEY - 20.10.2022

Noise Level Indl. Area (Day)	dB	75	49.6	IS 9989:1981 (RA 2014)
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Noise Level Indl. Area (Night)	dB	70	41.2	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

**Location & Date** : NEAR FINISHED PRODUCT HANDLING- 22.10.2022

Noise Level Indl. Area (Day)	dB	75	71.5	IS 9989:1981 (RA 2014)
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387B1445934173  
KLPL-356834A



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/9-44, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

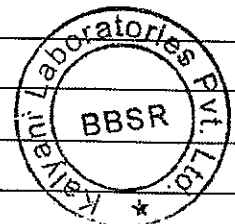
**NABL ULR NO** : TC704322000014459P

## TEST REPORT



**Test Report No** : 1521 | KLPL/10/22/ENVN/01890  
**Amendment No** : -  
**Reference** : PO NUMBER :4920054932,PO DATE :24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.  
**Date of receipt** : 24-Oct-2022  
**Commenced On** : 24-Oct-2022  
**Completion** : 24-Oct-2022  
**Issue Date** : 04-Nov-2022  
**Amendment Date** : -  
**Sample Name** : NOISE  
**Sample Condition** : -  
**Quantity** : 17 NOS  
**Ref.To Sampling Procedure:** QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Noise Level Indl. Area (Night)	dB	70	58.0	IS 9989:1981 (RA 2014)
<b>Location &amp; Date</b> : NEAR GCP- 21.10.2022				
Noise Level Indl. Area (Day)	dB	75	77.1	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	70	71.4	IS 9989:1981 (RA 2014)
<b>Location &amp; Date</b> : NEAR MAIN GATE - 20.10.2022				
Noise Level Indl. Area (Day)	dB	75	58.5	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	70	47.7	IS 9989:1981 (RA 2014)
<b>Location &amp; Date</b> : NEAR MATERIAL RECOVERY PLANT - 21.10.2022				
Noise Level Indl. Area (Day)	dB	75	74.6	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	70	65.7	IS 9909:1981 (RA 2014)
<b>Location &amp; Date</b> : NEAR MRSS SWITCH YARD - 21.10.2022				
Noise Level Indl. Area (Day)	dB	75	64.1	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	70	55.3	IS 9989:1981 (RA 2014)
<b>Location &amp; Date</b> : NEAR STORAGE AREA - 22.10.2022				
Noise Level Indl. Area (Day)	dB	75	49.6	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	70	39.0	IS 9989:1981 (RA 2014)
<b>Location &amp; Date</b> : NEAR VEHICLE PARKING AREA- 20.10.2022				
Noise Level Indl. Area (Day)	dB	75	47.0	IS 9909:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	70	40.5	IS 9989:1981 (RA 2014)
<b>Location &amp; Date</b> : NEAR WATER COOLING TOWER AREA- 22.10.2022				
Noise Level Indl. Area (Day)	dB	75	77.0	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	70	68.5	IS 9989:1981 (RA 2014)
<b>Location &amp; Date</b> : OHC - 22.10.2022				
Noise Level Indl. Area (Day)	dB	75	51.2	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	70	43.5	IS 9989:1981 (RA 2014)



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# KALYANI LABORATORIES PVT. LTD.

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

## TEST REPORT



NABL ULR NO : TC704322000014459P

Test Report No : 1521 | KLPL/10/22/ENVN/01890

Issue Date : 04-Nov-2022

Amendment No : -

Amendment Date : -

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 24-Oct-2022 Commenced On : 24-Oct-2022 Completion : 24-Oct-2022

Sample Name : NOISE

Sample Condition : -

Quantity : 17 NOS

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
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Remarks : -

Any unusual feature observed during determination

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

*D Anurkha*  
Analysed By  
For Kalyani Laboratories Pvt. Ltd.



*rajendra*  
Authorised Signatory  
For Kalyani Laboratories Pvt. Ltd.

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KLPL-356832A



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704323000015895P

Test Report No : KLPL/2/23/ENVN/02145B Issue Date : 25-Feb-2023

Amendment No : - Amendment Date : -

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 13-Feb-2023 Commenced On : 13-Feb-2023 Completion : 24-Feb-2023

Sample Name : NOISE

Sample Condition : -

Quantity : 17NOS

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
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Location & Date : NEAR 45MVA FURNACE - 11.02.2023

Noise Level Indl. Area (Day)	dB	---	71.9	IS 9989:1981 (RA 2014)
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Noise Level Indl. Area (Night)	dB	---	64.8	IS 9989:1981 (RA 2014)
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Location & Date : NEAR ADMINISTRATIVE BUILDING - 10.0.2023

Noise Level Indl. Area (Day)	dB	---	53.9	IS 9989:1981 (RA 2014)
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Noise Level Indl. Area (Night)	dB	---	44.8	IS 9989:1981 (RA 2014)
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Location & Date : NEAR AGGLOMERATION PLANT - 10.02.2023

Noise Level Indl. Area (Day)	dB	---	76.9	IS 9989:1981 (RA 2014)
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Noise Level Indl. Area (Night)	dB	---	66.8	IS 9989:1981 (RA 2014)
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Location & Date : NEAR AUTO GARAGE- 12.02.2023

Noise Level Indl. Area (Day)	dB	---	60.9	IS 9989:1981 (RA 2014)
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Noise Level Indl. Area (Night)	dB	---	53.7	IS 9989:1981 (RA 2014)
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Location & Date : NEAR BRIQUETTE STORAGE AREA - 11.02.2023

Noise Level Indl. Area (Day)	dB	---	69.8	IS 9989:1981 (RA 2014)
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Noise Level Indl. Area (Night)	dB	---	61.5	IS 9989:1981 (RA 2014)
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Location & Date : NEAR CENTRAL STORE - 11.02.2023

Noise Level Indl. Area (Day)	dB	---	53.4	IS 9989:1981 (RA 2014)
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Noise Level Indl. Area (Night)	dB	---	41.3	IS 9989:1981 (RA 2014)
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Location & Date : NEAR DRYER PLANT (AGGLOMERATION) - 11.02.2023

Noise Level Indl. Area (Day)	dB	---	75.3	IS 9989:1981 (RA 2014)
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Noise Level Indl. Area (Night)	dB	---	69.9	IS 9989:1981 (RA 2014)
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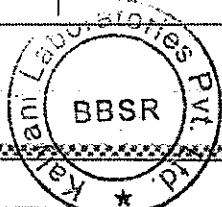
Location & Date : NEAR FACOR COLONEY - 10.02.2023

Noise Level Indl. Area (Day)	dB	---	50.5	IS 9989:1981 (RA 2014)
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Noise Level Indl. Area (Night)	dB	---	41.8	IS 9989:1981 (RA 2014)
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Location & Date : NEAR FINISHED PRODUCT HANDLING- 12.02.2023

Noise Level Indl. Area (Day)	dB	---	72.4	IS 9989:1981 (RA 2014)
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KLPL- 360148A of 3



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/9-4, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704323000015895P

Test Report No : KLPL/2/23/ENVN/02145B

Issue Date : 25-Feb-2023

Amendment No : -

Amendment Date : -

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 13-Feb-2023 Commenced On : 13-Feb-2023 Completion : 24-Feb-2023

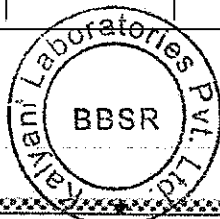
Sample Name : NOISE

Sample Condition : -

Quantity : 17NOS

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Noise Level Indl. Area (Night)	dB	---	58.8	IS 9989:1981 (RA 2014)
<b>Location &amp; Date : NEAR GCP- 11.02.2023</b>				
Noise Level Indl. Area (Day)	dB	---	77.9	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	---	71.8	IS 9989:1981 (RA 2014)
<b>Location &amp; Date : NEAR MAIN GATE - 10.02.2023</b>				
Noise Level Indl. Area (Day)	dB	---	59.6	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	---	48.8	IS 9989:1981 (RA 2014)
<b>Location &amp; Date : NEAR MATERIAL RECOVERY PLANT - 11.02.2023</b>				
Noise Level Indl. Area (Day)	dB	---	75.6	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	---	66.5	IS 9989:1981 (RA 2014)
<b>Location &amp; Date : NEAR MRSS SWITCH YARD - 11.02.2023</b>				
Noise Level Indl. Area (Day)	dB	---	64.8	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	---	55.9	IS 9989:1981 (RA 2014)
<b>Location &amp; Date : NEAR STORAGE AREA - 12.02.2023</b>				
Noise Level Indl. Area (Day)	dB	---	50.6	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	---	39.8	IS 9989:1981 (RA 2014)
<b>Location &amp; Date : NEAR VEHICLE PARKING AREA- 10.02.2023</b>				
Noise Level Indl. Area (Day)	dB	---	47.8	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	---	41.5	IS 9989:1981 (RA 2014)
<b>Location &amp; Date : NEAR WATER COOLING TOWER AREA- 12.02.2023</b>				
Noise Level Indl. Area (Day)	dB	---	77.8	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	---	69.6	IS 9989:1981 (RA 2014)
<b>Location &amp; Date : OHC - 11.02.2023</b>				
Noise Level Indl. Area (Day)	dB	---	52.4	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	---	44.6	IS 9989:1981 (RA 2014)





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENJUM CITY PAHAL, BHUBANESWAR-751032. ODISHA

## TEST REPORT



NABL ULR NO : TC704323000015895P

Test Report No : KLPL/2/23/ENVN/02145B Issue Date : 24-Feb-2023

Amendment No : - Amendment Date : -

Reference : PO NUMBER : 4920054932, PO DATE : 24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 13-Feb-2023 Commenced On : 13-Feb-2023 Completion : 24-Feb-2023

Sample Name : NOISE

Sample Condition : -

Quantity : 17NOS

Ref.To Sampling Procedure: QSP-07

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

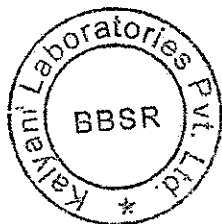
Remarks

Any unusual feature observed during determination

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

*D Asu*  
Analysed By  
For Kalyani Laboratories Pvt. Ltd.

*[Signature]*  
Authorised Signatory  
For Kalyani Laboratories Pvt. Ltd.



FACOR / Bhadrak / Legal / 185 / 2022

Dt. 11.11.2022

To

The Deputy Director General of Forests (C)  
Ministry of Environment, Forest & Climate Change  
Integrated Regional Office, A/3, Chandrasekharapur  
Bhubaneswar – 751023,  
Email: [roez.bsr-mef@nic.in](mailto:roez.bsr-mef@nic.in)

Ref: Environment Clearance Identification No.: EC22A008OR193113, dtd. 31.10.2022

Sub: Submission of Compliance report with respect to General conditions no. X(j), (ii) and (vi) of the Environment Clearance issued for expansion of the Charge Chrome Plant of M/s. Ferro Alloys Corporation Ltd. (FACOR) granted vide EC Identification No.: EC22A008OR193113 on dtd. 31.10.2022.

Dear Sir,

In compliance to the General conditions no. X(i), (ii) and (vi) of the Environment Clearance (Page no.11 of the EC issued for expansion of the Charge Chrome Plant of M/s. Ferro Alloys Corporation Ltd. (FACOR) granted vide EC Identification No.: EC22A008OR193113 on dtd. 31.10.2022 we are submitting herewith the compliance status report for your kind perusal and records as under :

**General Condition – Miscellaneous ( Page no.11 of the EC ):**

Condition No. X(i) : "The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently."

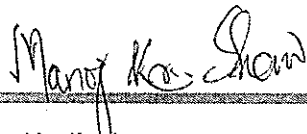
**Compliance status of Condition No.X(i) :**

We have published Public Notice in the English daily newspaper "**The Indian Express**" in English language and in a Odia daily newspaper namely "**The Sakala**" in vernacular language i.e Odia on dtd. 03.11.2022 regarding approval of Environment Clearance for the expansion project of Charge Chrome Plant of M/s. Ferro Alloys Corporation Ltd. vide EC Identification No.: EC22A008OR193113, dtd. 31.10.2022. The copy of the said Advertisement clips are enclosed herewith as **Annexure-1** Series for your kind reference and records.

Further in compliance to the aforesaid condition, we have also uploaded the copy the said EC in our official company website for public. The URL link of the same is appended below for the purpose of public access :

<https://www.facorgroup.in/wp-content/uploads/2022/11/Environment-Clearance-ccp-2022.pdf>.

Condition No. X(ii) : "The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt."



Page 1 of 2

Ferro Alloys Corporation Limited  
Charge Chrome Plant, D.P. Nagar, Randia - 756135, Dist. Bhadrak, Odisha, India.  
Phone : 06784 240320/240347/240272, Fax : 06784 240626.  
E-mail : [Facor.corporate@vedanta.co.in](mailto:Facor.corporate@vedanta.co.in) | Website : [www.facorgroup.in](http://www.facorgroup.in)  
CIN : U45201OR1955PLC008400

**Compliance status of Condition No. X(ii) :**

We have submitted the copies of the Environment Clearance dtd. 31.10.2022 to the Heads of the local bodies. Panchayats and relevant Government Offices as per the below mentioned table:

Sl No.	Letter No.	Date	Submitted to	Acknowledged on
01	FACOR / Bhadrak / Legal / 172 / 2022	02.11.2022	Collector, Bhadrak	05.11.2022
02	FACOR / Bhadrak / Legal / 173 / 2022	02.11.2022	Sub-Collector, Bhadrak	05.11.2022
03	FACOR / Bhadrak / Legal / 174 / 2022	02.11.2022	Tahasildar, Bhadrak	05.11.2022
04	FACOR / Bhadrak / Legal / 175 / 2022	02.11.2022	Sarapanch, Randia	07.11.2022
05	FACOR / Bhadrak / Legal / 176 / 2022	02.11.2022	Sarapanch, Olanga	07.11.2022
06	FACOR / Bhadrak / Legal / 177 / 2022	02.11.2022	Sarapanch, Rampur	07.11.2022
07	FACOR / Bhadrak / Legal / 178 / 2022	02.11.2022	Sarapanch, Ramkrishnapur	05.11.2022
08	FACOR / Bhadrak / Legal / 179 / 2022	02.11.2022	Sarapanch, Geltua	07.11.2022
09	FACOR / Bhadrak / Legal / 180 / 2022	02.11.2022	Sarapanch, Baudpur	07.11.2022
10	FACOR / Bhadrak / Legal / 181 / 2022	02.11.2022	OSPCB, Bhubaneswar	04.11.2022
11	FACOR / Bhadrak / Legal / 182 / 2022	02.11.2022	DDM, Baripada	04.11.2022

Copy of acknowledgment of the above letters are enclosed herewith as Annexures-2 series for your records please.

**Condition No. X(vi) :** "The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company."

**Compliance status of Condition No. X(vi) :**

We have submitted the Environment Statement for the financial year 2021-2022 to the office of OSPCB, Bhubaneswar and simultaneously have also uploaded the same in our company website. The URL link of the same is appended below for reference please :-

<https://www.facorgroup.in/wp-content/uploads/2022/11/CCP-Environmental-Statement-Apr2021-Mar2022.pdf>

In addition to the above submissions, we do hereby assure your good office that we have already initiated action for compliance of all the Specified Condition as well as General condition of the Environment Clearance dtd. 31.10.2022 issued to M/s. Ferro Alloys Corporation Ltd. Also we will submit compliance status report of the same in the six-monthly compliance report for the period ending from October 2022 to March 2023 within due time.

This is for your kind information and records please.

Thanking you  
Yours faithfully  
For Ferro Alloys Corporation Ltd.

  
Factory Manager  
Charge Chrome Plant

Copy to : Director I.A. Division, Ministry of Environment and Forest, Paryavaran Bhawan, New Delhi.

Page 2 of 2

Ferro Alloys Corporation Limited  
Charge Chrome Plant, D.P. Nagar, Randia - 756135, Dist. Bhadrak, Odisha, India.  
Phone : 06784 240320/240347/240272, Fax : 06784 240626.  
E-mail : facor.corporate@vedanta.co.in | Website : www.facorgroup.in  
CIN : LL45201OR1955PLC008400

777  
 Sd/- Principal  
 J.B.(D) College,  
 Sardhapali

WIL JUDGE Sr. Div., Jeypore  
 01/2022

...Petitioner  
 ...Opposite Party

Office  
 oner, Ayshwariya Deepak Swain,  
 Shok Kumar Swain, resident at  
 Boipariguda, Dist: Koraput has  
 certificate claiming rights over  
 117226 PS-Rs.5,22,101/-

ns having any interest may appear  
 11,2022 in person or through an  
 his Court on this the 22 Oct., 2022.  
 d/- Civil Judge (Sr. Division),  
 Jeypore

AGIR C-1489

45/2022-23  
 r paper, EMD, Time of completion,  
 other necessary documents can be

mentioned in DTCN  
 khs (Including GST)  
 22 to 5.00 PM of 14.11.2022

ir Municipality  
 ection with the tenders shall be  
 all be given. Bidders are advised to  
 Executive Officer  
 Balangir Municipality

DIVISION, Nayagarh

11.2022  
 ehalf of Managing Director, Odisha  
 Rate bids in single cover system in  
 wing H.T Electrical License issued by  
 with the state PWD/Irrigation/PHED

aries from Rs.13.00 lakh to 30.00 lakh  
 to 23.11.2022 upto 17.00 hours

Gov.in.  
 n in the said website.  
 EXECUTIVE ENGINEER,  
 L.I. DIVISION, Nayagarh

କୋର୍ଟ ପୂର୍ଣ୍ଣମତା କରିଛନ୍ତି । ଜଳସାଧାରଣ ଯୋଗ୍ୟ ନିଗର ରିଟିଂ, ଜଳକର ଆଦାୟ ଓ ବେନିଫିଟ  
 ପାଇପ ଦାୟୋଗ ଦୂର କରିବା ବାଣୀରେ ବହୁତ ଉନ୍ନତି ଆସିପାରିଛି । ଏହି ବାଣୀକ୍ରମର

**The SAKALA**  
 05-11-2022



ସାଧାରଣ ବିଜ୍ଞପ୍ତି

ଏତଦ୍ୱାରା ସର୍ବସାଧାରଣକ ଅନୁଗତ ନିଗଡ଼େ ଜଣାଇ ଦିଆଯାଇଛି ଯେ ମେସର୍ସ ଫେରୋସଲୋଏକ  
 ବର୍ଦ୍ଧୋରେସନ ଲିମିଟେଡ୍ (ଫେନର) କମ୍ପାନୀ ଅଧିକାରୀ ଚାର୍ଜଡୋମ ଷ୍ଟାଫ, ଟି.ପି. ନଗର, ଗ୍ରାମ / ପୋଷ୍ଟ :  
 ରାମିଆ, ତହସିଲ / ଜିଲ୍ଲା: ରତ୍ନକ, ଓଡ଼ିଶାକୁ ଫେରୋସଲୋଏକ ପ୍ରକଳ୍ପ ର ସମ୍ପ୍ରସାରଣ କରି ୧ x ୪୫,  
 ଏମ.ଲି.ଏ. ଫେରୋସ ଏବଂ ଅତିରିକ୍ତ ୧ x ୩୩ ଏମ.ଲି.ଏ. ଫେରୋସକୁ ସର୍ବମୋଟ ବାର୍ଷିକ ୧,୪୫,୦୦୦  
 ଟଙ୍କ ଏବଂ ମେଟାଲ ରିକଭରୀ ଷ୍ଟାଫକୁ ବାର୍ଷିକ ୧୧,୮୦୦ ଟଙ୍କ ଉପାଦାନ ବୁଝି କରିବାପାଇଁ ଭାରତ  
 ସରକାରଙ୍କ ପରିବେଶ, ଜଙ୍ଗଲ ଏବଂ ଜଳବାୟୁ ପରିବର୍ତ୍ତନ ମନ୍ତ୍ରାଳୟ ଗତ ୩୧.୦୧.୨୦୨୨ ତାରିଖରେ  
 ଇ.ପି. ପରିଚୟ କ୍ରମାଙ୍କ : ଇପି ୨୨୦୦୮୦ଆଇଏଲଏଏଏଏ ମାଧ୍ୟମରେ ପରିବେଶ ସ୍ୱୀକୃତି ପ୍ରଦାନ  
 କରିଛନ୍ତି । ଉକ୍ତ ସ୍ୱୀକୃତିପ୍ରାପ୍ତ ଟିପି ପରିବେଶ ଜଙ୍ଗଲ ଏବଂ ଜଳବାୟୁ ପରିବର୍ତ୍ତନ ମନ୍ତ୍ରାଳୟ ଭାରତ  
 ସରକାରଙ୍କ ୱେବସାଇଟ <http://environmentclearance.nic.in> ରେ ମଧ୍ୟ ଉପଲବ୍ଧ ଅଟେ ।  
 ବାରଖାନା ପରିଚାଳକ  
 ଫେରୋସଲୋଏକ ବର୍ଦ୍ଧୋରେସନ ଲିମିଟେଡ୍ (ଫେନର)  
 ଟି.ପି.ନଗର, ରାମିଆ, ଜିଲ୍ଲା: ରତ୍ନକ ।

**Office of the Notified Area of Council, Dharamgarh.**  
 \*\*\*\*\*  
 "e" Procurement Notice No.3190,Dated. 31.10.2022 C-1499  
 BID IDENTIFICATION No. DHARAMGARH/NAC/02/2022-23  
 The Notified Area of Council, Dharamgarh invites online bid in single cover system through  
 e-procurement.  
 Tender reference No. DHARAMGARH/NAC/02/2022-23  
 Name of Work Civil Work  
 Total Nos of Works 2 (Two)  
 Value of Works RS. 1,32,000/- TO Rs.20,00,000/-  
 Date of availability of From DL01/11/2022 at 11.00 AM  
 Tender for online Bidding Up to DL07/11/2022 at 5.00 PM  
 Date of Opening of Bids DL09/11/2022 at 11.00 AM  
 Name and Address of the Executive Officer  
 Officer Inviting Bid NAC, Dharamgarh  
 Further details can be seen from procurement portal the website: [www.tendersodisha.gov.in](http://www.tendersodisha.gov.in)  
 Sub-Collector-cum-Executive Officer  
 NAC, Dharamgarh  
 OIPR-13163/11/0007/2223

**OFFICE OF THE DEPUTY DIRECTOR SOIL CONSERVATION-  
 CUM-PROJECT DIRECTOR WATERSHEDS, BARGARH**  
 Letter No.1062 Dated-31.10.2022  
**TENDER NOTICE**  
 Sealed tenders are invited from reputed manpower agencies/service providers  
 to provide the services for engagement of Watershed Development Team  
 (WDT) At-Padmapur project Implementing Agency (PIA) Level for  
 implementation of centrally sponsored scheme Watershed Development  
 Component of Pradhan Mantri Krishi Sinchayee Yojana (WDC-PMKSY 2.0) to  
 guide Watershed Committee (WC) in Planning and implementation of project  
 activities at Micro Watershed Level for a period upto 31.03.2023 from the date of  
 contract through a suitable placement agency on contract basis. The detail  
 information for outsourcing the service of aforesaid posts has been given in the  
 Tender document which may either be downloaded from the website in  
[www.bargarh.nic.in](http://www.bargarh.nic.in) or obtained in person from Project Director, Watersheds,  
 Bargarh with an EMD cost of Rs. 5000/- in shape of Bank Draft payable at  
 Bargarh, in favour of Project Director, Watersheds, Bargarh, on any working  
 day between 10.00 AM to 4.00 PM and deposit processing fees of Rs. 450/- in  
 shape of cash/ Draft (Non refundable). The last date & time for submission of  
 Tender document is 15.11.2022 by 4.00 PM through Regd. Post or Drop Box in  
 Office. Tender documents received by other mode shall summarily be rejected.  
 The authority reserves the right to accept or reject some or all quotations without  
 assigning reason thereof.  
 Dy. Director Soil Conservation-Cum-  
 Project Director Watersheds, Bargarh

ନିଆରେ ଚକ୍ଷୁକରଣ, ଭାରତର  
 ବାଣୀକ୍ରମ ଯୁଗ ଚେତନା ବା  
 ବାଣୀକ୍ରମ ଅପରାହ ୫.୦୦ ଚକ୍ରା  
 ୨୦୨୨ ରେ ମିଳାମ ନ ଯେଉ ପାରିବ  
 ୨୦୨୨ ରେ କରାଯିବ । ଏକ  
 ବା:୩୧.୧୦.୨୦୨୨ରୁ ଯେ ପ୍ରକଳ୍ପ  
 ଏହି ଉପକ୍ରମ ର ଦ  
 ଏତଦ୍ୱାରା ସର୍ବସାଧାରଣକ ଅନୁଗତ ନିଗଡ଼େ ଜଣାଇ ଦିଆଯାଇଛି ଯେ ମେସର୍ସ ଫେରୋସଲୋଏକ  
 ବର୍ଦ୍ଧୋରେସନ ଲିମିଟେଡ୍ (ଫେନର) କମ୍ପାନୀ ଅଧିକାରୀ ଚାର୍ଜଡୋମ ଷ୍ଟାଫ, ଟି.ପି. ନଗର, ଗ୍ରାମ / ପୋଷ୍ଟ :  
 ରାମିଆ, ତହସିଲ / ଜିଲ୍ଲା: ରତ୍ନକ, ଓଡ଼ିଶାକୁ ଫେରୋସଲୋଏକ ପ୍ରକଳ୍ପ ର ସମ୍ପ୍ରସାରଣ କରି ୧ x ୪୫,  
 ଏମ.ଲି.ଏ. ଫେରୋସ ଏବଂ ଅତିରିକ୍ତ ୧ x ୩୩ ଏମ.ଲି.ଏ. ଫେରୋସକୁ ସର୍ବମୋଟ ବାର୍ଷିକ ୧,୪୫,୦୦୦  
 ଟଙ୍କ ଏବଂ ମେଟାଲ ରିକଭରୀ ଷ୍ଟାଫକୁ ବାର୍ଷିକ ୧୧,୮୦୦ ଟଙ୍କ ଉପାଦାନ ବୁଝି କରିବାପାଇଁ ଭାରତ  
 ସରକାରଙ୍କ ପରିବେଶ, ଜଙ୍ଗଲ ଏବଂ ଜଳବାୟୁ ପରିବର୍ତ୍ତନ ମନ୍ତ୍ରାଳୟ ଗତ ୩୧.୦୧.୨୦୨୨ ତାରିଖରେ  
 ଇ.ପି. ପରିଚୟ କ୍ରମାଙ୍କ : ଇପି ୨୨୦୦୮୦ଆଇଏଲଏଏଏ ମାଧ୍ୟମରେ ପରିବେଶ ସ୍ୱୀକୃତି ପ୍ରଦାନ  
 କରିଛନ୍ତି । ଉକ୍ତ ସ୍ୱୀକୃତିପ୍ରାପ୍ତ ଟିପି ପରିବେଶ ଜଙ୍ଗଲ ଏବଂ ଜଳବାୟୁ ପରିବର୍ତ୍ତନ ମନ୍ତ୍ରାଳୟ ଭାରତ  
 ସରକାରଙ୍କ ୱେବସାଇଟ <http://environmentclearance.nic.in> ରେ ମଧ୍ୟ ଉପଲବ୍ଧ ଅଟେ ।  
 ବାରଖାନା ପରିଚାଳକ  
 ଫେରୋସଲୋଏକ ବର୍ଦ୍ଧୋରେସନ ଲିମିଟେଡ୍ (ଫେନର)  
 ଟି.ପି.ନଗର, ରାମିଆ, ଜିଲ୍ଲା: ରତ୍ନକ ।  
 OIPR-24098/11/0003/22

**OFFICE  
 MINOR**  
**BID ID**  
 1. Name of the Inviting  
 Jashipur  
 2. Name of the Works  
 3. No. of Works:-  
 4. Tender Amount Vary  
 5. Date and Time of Av  
 for online Bidding In  
 6. Last Date and Time  
 7. Last Date and Time  
 8. Date of opening of B  
 The detail tender call note  
 Name & Address of the C  
 Further details can be see  
 e-Procurement market pl  
 Subsequent corrigend  
 The tender inviting  
 without assigning an  
 OIPR-32282/11/00

1. The Block Development  
 Percentage rate bid in  
 class of eligible country  
 Government and control  
 MES / Railway, to be  
 proof of registration  
 successful, the bidder  
 the State PWD in app  
 submit bids for any or  
 downloaded from the  
 undersigned during off  

Sl. No	Name of work
1	Construction of Ad Room 2 nos. Reno Old room and Hand Platform at Kank Bidyasitha, Pedipar

 1. Sale of Tender Pa  
 Holiday during off  
 2. Last date of receipt  
 or registered post o  
 3. Date of Opening of  
 undersigned)  
 OIPR-49091/11/000

...ascending after the  
...  
...rding to the police, impact of  
...ident was very severe and two  
...bags of the car were deployed  
...crash. The person sitting on  
...nt seat was possibly thrown  
...the car and he survived the ac-  
...His condition is stated to be  
...ing police informed.

**AD**

**Rape**

Two persons for allegedly raping a  
...ed a complaint in Kharavela Nagar  
... had come from Cuttack to visit a  
...k and was sitting near Ram Mandir  
...ched her and offered her a place to  
...s away and allegedly gangraped her  
...0), who is also a security guard.

**Appendix - IV (Rule 8(1))  
POSSESSION NOTICE  
(For Immovable Property)**

In pursuance of the powers conferred under Section 13(12) of the said act calling upon the Borrower(s) from the date of the receipt of the said certificate is hereby given to the Borrower(s) of the property described herein below, in the Security Interest (Enforcement) Rules, 2002 and the public in general are hereby informed that the amount due to IDBI Bank Limited for the amount of Mortgage(s) attention is invited to the attached assets.

**Description of the Immovable Property**  
All that piece and parcel of immovable properties situated at Mouza: Bargam, Khata No.: 2414/10426, Plot No.: ... of Odisha recorded in the name of Garia, East: Land of Ashok Garia, West: ... and machinery attached to the earth or ...

Authorised Officer, IDBI Bank Limited

**POSSESSION NOTICE  
(RULE-8(1)) For Immovable Property**

In pursuance of the powers conferred under Section 13(12) of the said act calling upon the Borrower(s) from the date of the receipt of the said certificate is hereby given to the Borrower(s) of the property described herein below, in the Security Interest (Enforcement) Rules, 2002 and the public in general are hereby informed that the amount due to State Bank of India for the amount of Mortgage(s) attention is invited to the attached assets.

	Liabilities due on the specified date as per Notice	Date of Demand/ Possession Notice
consist of S. Khatra, Plot No.: 302, Area: Khata No.: Dec., Plot No.: Mohan	₹30,22,215/- as on 09.03.2022 with further interest, incidental expenses and costs thereon	28.03.2022 / 01.11.2022

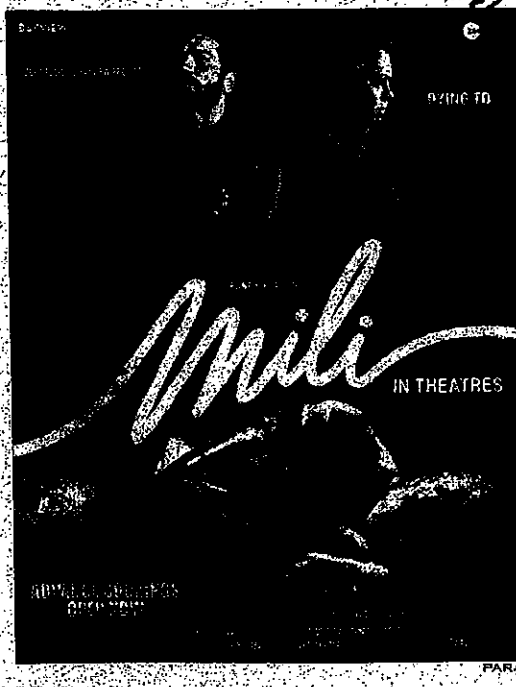
Authorised Officer, State Bank of India

**DEO B - 01 Post at ICMR-NITM Belagavi**  
For detailed advertisement please visit the <https://icmrniltm.res.in/careers/> and [www.icmr.nic.in](http://www.icmr.nic.in) websites.  
Date: 14.10.2022  
Place: Belagavi  
Sd/-  
Director

**The Indian Express FACOR**  
**03-11-22 PUBLIC NOTICE**

It is hereby informed to the general public that the Ministry of Environment, Forest and Climate Change, Government of India (MOEF & CC) has granted Environment Clearance (E.C) to the Charge Chrome Plant of M/s Ferro Alloys Corporation Ltd. (FACOR) on dtd. 31.10. 2022 vide E.C. Identification No. EC22A008OR193113, for expansion of Ferro Alloys Plant for production of High Carbon Ferro Chrome up to 1,45,000 TPA from two furnace i.e 1'X'45 MVA & 1 X 33 MVA and 11,800 TPA from the Metal Recovery Plant (MRP) situated at village Randia of Bhadrak District of Odisha. This E.C. is also available in the official portal of Ministry of Environment, Forest and Climate Change, Govt. of India i.e <http://environmentclearance.nic.in>.

**Factory Manager  
M/s. Ferro Alloys Corporation Ltd.  
Charge Chrome Plant, Randia, Bhadrak.**



All the news in just a click.  
Log to [www.newindianexpress.com](http://www.newindianexpress.com)  
THE NEW INDIAN EXPRESS  
Available on various platforms.

**राष्ट्रीय प्र  
NATIONAL CENT  
पृथ्वी विज्ञ  
Ministry of E  
Akkulam,  
No. NCESS/P&GA/9115/1/2022  
**RECR**  
NCESS invites online applications for post of Technical Assistant, Project/tract basis initially for a period of 03 months, if any, will be notified through phone-0471-2511500**

**Tamilnadu Priv  
Associati  
Prasanna Enck  
(near Kotturpuram Raha  
Admission for M.Pharm.  
In unaided private colle  
The Committee to Regulate - Mon  
courses by the self financing. Pr  
No.COAM.Pharm/082/2022. date  
prepare the General Merit List for  
2022-23 session). The online app  
downloaded from the website www.  
Date of online application form is  
Last date for submission of online  
Date of Downloading Hall ticket  
Date of Entrance Examination  
Publication of Merit List/Results.  
The candidate should send the  
(with enclosures) on or before 18.11  
Tel: 044-24422211**

**गार्डन रीच सि  
Garden Reach S  
Prapl and Engrs Office**

**EMPLOYMENT NOTIF  
RECRUITME  
Opening Date for On  
Closing Date for On  
GRSE Ltd. is one of the p  
Ratna Category-I. Compar  
from qualified, talented ar  
posts indicated below.**

Name of Post/ (Grade)	Discpl
Design Assistant (S-2 Grade) (Permanent Employment)	(i) HUl & (UR-O) (ii) Electri (iii) IT-01 (Out of the reserved and 1 poi
Supervisor (S-4 Grade) (On Fixed Term Contract)	(i) Mecha (ii) Electric (iii) HUl & (Out of the reserved for PwBD reserved f
Supervisor (S-4 Grade) (On Fixed Term Contract)	Security (Out of the reserved

The details like Genl qualification, selection pro in Career Section of <https://jobapply.in/grse/> only through ONLINE submission of application. Any Addendum/Corrigi GRSE website.





# KALYANI LABORATORIES PVT. LTD.

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

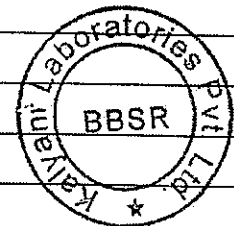
NABL ULR NO : TC704322000014450P

## TEST REPORT



**Test Report No** : 1519 | KLPL/10/22/ENVN/01889  
**Amendment No** : -  
**Reference** : PO NUMBER :4920054932, PO DATE :24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135, BHADRAK, ODISHA.  
**Date of receipt** : 24-Oct-2022  
**Commenced On** : 24-Oct-2022  
**Completion** : 28-Oct-2022  
**Issue Date** : 04-Nov-2022  
**Amendment Date** : -  
**Sample Name** : AMBIENT AIR QUALITY MONITORING  
**Sample Condition** : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED  
**Quantity** : 4 NOS  
**Ref.To Sampling Procedure:** QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date : AUTO GARAGE DT-22-23.10.2022</b>				
Sulphur Dioxide	µg/m <sup>3</sup>	80	7.58	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	11.59	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	57.53	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	30.98	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.357	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	2.2	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10
<b>Location &amp; Date : FPHS &amp; MRP PLANT DT-20-21.10.2022</b>				
Sulphur Dioxide	µg/m <sup>3</sup>	80	8.03	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	13.81	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	59.08	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	29.54	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.359	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	4.4	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10



38721445034162  
KLPL- 356837A



# KALYANI LABORATORIES PVT. LTD.

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

**NABL ULR NO** : TC704322000014450P

## TEST REPORT



**Test Report No** : 1519 | KLPL/10/22/ENVN/01889

**Issue Date** : 04-Nov-2022

**Amendment No** : -

**Amendment Date** : -

**Reference** : PO NUMBER :4920054932,PO DATE :24.05.2022

**Customer Name** : FERRO ALLOYS CORPORATION LTD.

**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.

**Date of receipt** : 24-Oct-2022 **Commenced On** : 24-Oct-2022

**Completion** : 28-Oct-2022

**Sample Name** : AMBIENT AIR QUALITY MONITORING

**Sample Condition** : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

**Quantity** : 4 NOS

**Ref.To Sampling Procedure** : QSP-07

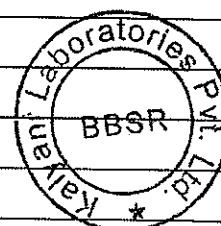
Parameters	Unit	Standard Value	Results	Test Method
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**Location & Date** : MRSS & CPP DT-21-22.10.2022

Sulphur Dioxide	µg/m <sup>3</sup>	80	9.19	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	16.41	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	65.80	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	35.09	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.366	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	5.8	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10

**Location & Date** : R & C LAB DT-19-20.10.2022

Sulphur Dioxide	µg/m <sup>3</sup>	80	6.18	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	11.34	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	54.07	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	27.03	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.354	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	3.6	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10



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KLPL- 356836A



# KALYANI LABORATORIES PVT. LTD.

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

NABL ULR NO : TC704322000014450P

## TEST REPORT



Test Report No : 1519 | KLPL/10/22/ENVN/01889

Issue Date : 04-Nov-2022

Amendment No : -

Amendment Date : -

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 24-Oct-2022 Commenced On : 24-Oct-2022

Completion : 28-Oct-2022

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
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### Remarks

Any unusual feature observed during determination

End of Test Report

*D Arukha*  
Analysed By  
For Kalyani Laboratories Pvt. Ltd.

*D. S. Jena*  
Authorised Signatory  
For Kalyani Laboratories Pvt. Ltd.





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/9-44, MILLENNIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704322000015114P

Issue Date : 06-Dec-2022

Amendment Date : -

Test Report No : KLPL/11/22/ENVN/01944D

Amendment No : -

Reference : PO NUMBER : 4920054932, PO DATE : 24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 28-Nov-2022 Commenced On : 28-Nov-2022 Completion : 02-Dec-2022

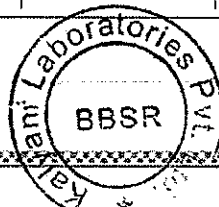
Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref. To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date : AUTO GARAGE DT-26-27.11.2022</b>				
Sulphur Dioxide	µg/m <sup>3</sup>	80	6.16	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	14.11	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	56.04	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	30.82	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.356	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	5.1	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10
<b>Location &amp; Date : FPHS &amp; MRP PLANT DT-24-25.11.2022</b>				
Sulphur Dioxide	µg/m <sup>3</sup>	80	8.19	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	12.31	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	57.03	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	31.37	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.357	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	5.8	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENNIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704322000015114P

Issue Date : 06-Dec-2022

Test Report No : KLPL/11/22/ENVN/01944D

Amendment No : -

Amendment Date : -

Reference : PO NUMBER : 4920054932, PO DATE : 24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 28-Nov-2022 Commenced On : 28-Nov-2022 Completion : 02-Dec-2022

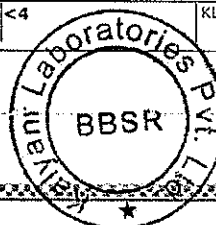
Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date : MRSS &amp; CPP DT-25-26.11.2022</b>				
Sulphur Dioxide	µg/m <sup>3</sup>	80	9.03	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	13.81	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	63.30	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	34.31	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.363	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	3.6	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10
<b>Location &amp; Date : R &amp; C LAB DT-23-24.11.2022</b>				
Sulphur Dioxide	µg/m <sup>3</sup>	80	7.03	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	11.05	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	50.64	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	27.85	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.350	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	2.9	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704322000015114P

Issue Date : 06-Dec-2022

Test Report No : KLPL/11/22/ENVN/01944D

Amendment Date : -

Amendment No : -

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 28-Nov-2022 Commenced On : 28-Nov-2022 Completion : 02-Dec-2022

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
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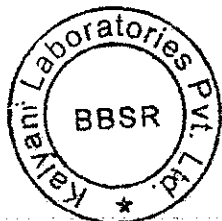
Remarks

Any unusual feature observed during determination

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

*D. Anurag*  
Analysed By  
For Kalyani Laboratories Pvt. Ltd.

*Prasanna*  
Authorised Signatory  
For Kalyani Laboratories Pvt. Ltd.



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

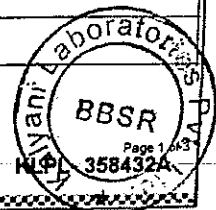
Kalyani Laboratories

## TEST REPORT



**NABL ULR NO** : TC704323000015404P  
**Test Report No** : KLPL/12/22/ENVN/02033D **Issue Date** : 02-Jan-2022  
**Amendment No** : - **Amendment Date** : -  
**Reference** : PO NUMBER :4920054932,PO DATE :24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.  
**Date of receipt** : 23-Dec-2022 **Commenced On** : 23-Dec-2022 **Completion** : 02-Jan-2022  
**Sample Name** : AMBIENT AIR QUALITY MONITORING  
**Sample Condition** : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED  
**Quantity** : 4 NOS  
**Ref.To Sampling Procedure:** QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date : AUTO GARAGE DT-29-30.12.2022</b>				
Sulphur Dioxide	µg/m <sup>3</sup>	80	7.17	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	13.69	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	50.21	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	27.62	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.350	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	5.1	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10
<b>Location &amp; Date : FPHS &amp; MRP PLANT DT-27-28.12.2022</b>				
Sulphur Dioxide	µg/m <sup>3</sup>	80	8.95	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	17.98	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	59.84	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	32.91	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.359	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	5.8	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BIHUBANESWAR-751032, ODISHA

NABL ULR NO

### TEST REPORT



Test Report No

: TC704323000015404P

Issue Date : 02-Jan-2023

Amendment No

: KLPL/12/22/ENVN/02033D

Amendment Date : -

Reference

: PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name

: FERRO ALLOYS CORPORATION LTD.

Address

: CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.

Date of receipt

: 23-Dec-2022

Commenced On : 23-Dec-2022

Completion

: 02-Jan-2023

Sample Name

: AMBIENT AIR QUALITY MONITORING

Sample Condition

: GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity

: 4 NOS

Ref.To Sampling Procedure:

: QSP-07

Parameters

Unit

Standard Value

Results

Test Method

Location & Date

: MRSS & CPP DT-28-29.12.2022

Sulphur Dioxide

µg/m<sup>3</sup>

80

9.85

IS 5182(PART-2) : 2001

Nitrogen Dioxide

µg/m<sup>3</sup>

80

16.12

IS 5182 (PART 6 ) :2006

Particulate Matter (PM10)

µg/m<sup>3</sup>

100

64.67

IS 5182(PART-23) :2006

Particulate Matter (PM2.5)

µg/m<sup>3</sup>

60

35.57

KLPL/SOP/AIR-02

Carbon Monoxide (CO) (01 Hrs.)

mg/m<sup>3</sup>

04

0.364

KLPL/SOP/AIR-19

Ozone (O3) (01 Hrs.)

µg/m<sup>3</sup>

180

6.6

KLPL/SOP/AIR-19

Lead (Pb)

µg/m<sup>3</sup>

1.0

<0.02

KLPL/SOP/AIR-10

Ammonia (NH3)

µg/m<sup>3</sup>

400

<10

KLPL/SOP/AIR-05

Benzene (C6 H6)

µg/m<sup>3</sup>

05

<1

KLPL/SOP/AIR-07

Benza (a) Pyrene (BaP)

ng/m<sup>3</sup>

01

<1

KLPL/SOP/AIR-07

Arsenic (As)

ng/m<sup>3</sup>

06

<1

KLPL/SOP/AIR-10

Nickel (Ni)

ng/m<sup>3</sup>

20

<4

KLPL/SOP/AIR-10

Location & Date

: R & C LAB DT-26-27.12.2022

Sulphur Dioxide

µg/m<sup>3</sup>

80

7.26

IS 5182(PART-2) : 2001

Nitrogen Dioxide

µg/m<sup>3</sup>

80

15.85

IS 5182 (PART 6 ) :2006

Particulate Matter (PM10)

µg/m<sup>3</sup>

100

42.38

IS 5182(PART-23) :2006

Particulate Matter (PM2.5)

µg/m<sup>3</sup>

60

23.31

KLPL/SOP/AIR-02

Carbon Monoxide (CO) (01 Hrs.)

mg/m<sup>3</sup>

04

0.342

KLPL/SOP/AIR-19

Ozone (O3) (01 Hrs.)

µg/m<sup>3</sup>

180

2.9

KLPL/SOP/AIR-19

Lead (Pb)

µg/m<sup>3</sup>

1.0

<0.02

KLPL/SOP/AIR-10

Ammonia (NH3)

µg/m<sup>3</sup>

400

<10

KLPL/SOP/AIR-05

Benzene (C6 H6)

µg/m<sup>3</sup>

05

<1

KLPL/SOP/AIR-07

Benza (a) Pyrene (BaP)

ng/m<sup>3</sup>

01

<1

KLPL/SOP/AIR-07

Arsenic (As)

ng/m<sup>3</sup>

06

<1

KLPL/SOP/AIR-10

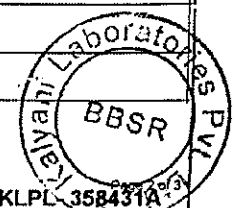
Nickel (Ni)

ng/m<sup>3</sup>

20

<4

KLPL/SOP/AIR-10





NABL ULR NO : TC704323000015404P

### TEST REPORT



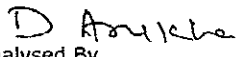
**Test Report No** : KLPL/12/22/ENVN/02033D **Issue Date** : 02-Jan-2023  
**Amendment No** : - **Amendment Date** : -  
**Reference** : PO NUMBER : 4920054932, PO DATE : 24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135, BHADRAK, ODISHA.  
**Date of receipt** : 23-Dec-2022 **Commenced On** : 23-Dec-2022 **Completion** : 02-Jan-2023  
**Sample Name** : AMBIENT AIR QUALITY MONITORING  
**Sample Condition** : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED  
**Quantity** : 4 NOS  
**Ref.To Sampling Procedure:** QSP-07

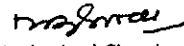
Parameters	Unit	Standard Value	Results	Test Method
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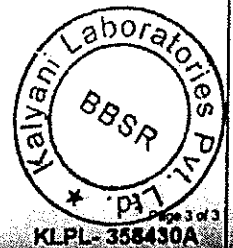
Remarks

Any unusual feature observed during determination

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

  
 Analysed By  
 For Kalyani Laboratories Pvt. Ltd.

  
 Authorised Signatory  
 For Kalyani Laboratories Pvt. Ltd.





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704323000015754P

Test Report No : KLPL/1/23/ENVN/02118C

Issue Date : 06-Feb-2023

Amendment No : -

Amendment Date : -

Reference : PO NUMBER : 4920054932, PO DATE : 24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 28-Jan-2023 Commenced On : 28-Jan-2023 Completion : 06-Feb-2023

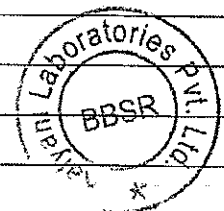
Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref. To Sampling Procedure : QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date : AUTO GARAGE DT-27-28.01.2023</b>				
Sulphur Dioxide	µg/m <sup>3</sup>	80	6.35	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	11.64	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	48.90	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	26.89	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.349	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	5.1	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10
<b>Location &amp; Date : FPMS &amp; MRP PLANT DT-24-25.01.2023</b>				
Sulphur Dioxide	µg/m <sup>3</sup>	80	8.87	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	13.87	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	63.57	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	34.96	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.363	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	5.8	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



**NABL ULR NO** : TC704323000015754P

**Test Report No** : KLPL/1/23/ENVN/02118C **Issue Date** : 06-Feb-2023

**Amendment No** : - **Amendment Date** : -

**Reference** : PO NUMBER : 4920054932, PO DATE : 24.05.2022

**Customer Name** : FERRO ALLOYS CORPORATION LTD.

**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.

**Date of receipt** : 28 Jan 2023 **Commenced On** : 28 Jan 2023 **Completion** : 06 Feb 2023

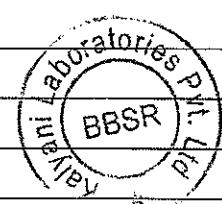
**Sample Name** : AMBIENT AIR QUALITY MONITORING

**Sample Condition** : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

**Quantity** : 4 NOS

**Ref.To Sampling Procedure:** QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date</b> : MRSS & CPP DT-25-26.01.2023				
Sulphur Dioxide	µg/m <sup>3</sup>	80	9.40	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	16.05	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	68.68	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	37.77	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.368	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	6.6	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10
<b>Location &amp; Date</b> : R & C LAB DT-23-24.01.2023				
Sulphur Dioxide	µg/m <sup>3</sup>	80	7.42	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	11.34	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	47.63	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	26.19	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.347	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	2.9	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704323000015754P

Test Report No : KLPL/1/23/ENVN/02118C

Issue Date : 06-Feb-2023

Amendment No : -

Amendment Date : -

Reference : PO NUMBER : 4920054932, PO DATE : 24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 28-Jan-2023      Commenced On : 28-Jan-2023      Completion : 06-Feb-2023

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
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Remarks

Any unusual feature observed during determination

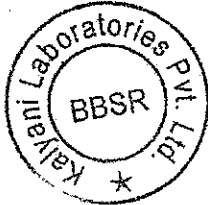
End of Test Report

*D. Anubha*

Analysed By  
For Kalyani Laboratories Pvt. Ltd.

*[Signature]*

Authorised Signatory  
For Kalyani Laboratories Pvt. Ltd.





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704323000015895P

Test Report No : KLPL/2/23/ENVN/02145C

Issue Date : 25-Feb-2023

Amendment No : -

Amendment Date : -

Reference : PO NUMBER : 4920054932, PO DATE : 24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 13-Feb-2023 Commenced On : 13-Feb-2023 Completion : 24-Feb-2023

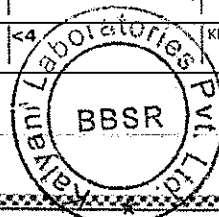
Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref. To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date : AUTO GARAGE DT-10 -11.02.2023</b>				
Sulphur Dioxide	µg/m <sup>3</sup>	80	8.76	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	12.91	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	50.21	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	27.62	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.350	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	2.9	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10
<b>Location &amp; Date : FPHS &amp; MRP PLANT DT-11-12.02.2023</b>				
Sulphur Dioxide	µg/m <sup>3</sup>	80	8.54	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	13.99	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	68.39	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	37.61	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.368	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	5.8	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10



KLPL- 360115A of 3



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENNIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704323000015895P

Test Report No : KLPL/2/23/ENVN/02145C

Issue Date : 25-Feb-2023

Amendment No : -

Amendment Date : -

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 13-Feb-2023 Commenced On : 13-Feb-2023 Completion : 24-Feb-2023

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref.To Sampling Procedure: QSP-07

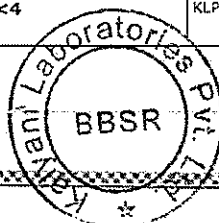
Parameters Unit Standard Value Results Test Method

Location & Date : MRSS & CPP DT-13-14.02.2023

Sulphur Dioxide	µg/m <sup>3</sup>	80	9.40	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	16.05	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	68.39	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	35.41	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.368	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	5.8	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10

Location & Date : R & C LAB DT-10-11.02.2023

Sulphur Dioxide	µg/m <sup>3</sup>	80	6.16	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	12.09	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	43.11	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	23.71	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.343	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	3.6	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10



KLPL- 360114A 2 of 3



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704323000015895P

Issue Date : 25-Feb-2023

Test Report No : KLPL/2/23/ENVN/02145C

Amendment No : -

Amendment Date : -

Reference : PO NUMBER : 4920054932, PO DATE : 24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 13-Feb-2023 Commenced On : 13-Feb-2023 Completion : 24-Feb-2023

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref. To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
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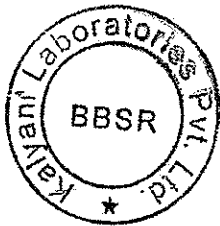
### Remarks

Any unusual feature observed during determination.

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

*D. Anur*  
Analysed By  
For Kalyani Laboratories Pvt. Ltd.

*M. Anur*  
Authorised Signatory  
For Kalyani Laboratories Pvt. Ltd.





# KALYANI LABORATORIES PVT. LTD.

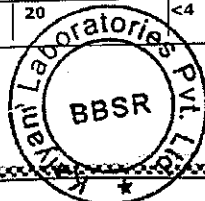
PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA



## TEST REPORT

**NABL ULR NO** : TC704323000016152P  
**Test Report No** : KLPL/3/23/ENVN/02188 **Issue Date** : 27-March-2023  
**Amendment No** : - **Amendment Date** : -  
**Reference** : PO NUMBER :4920054932,PO DATE :24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.  
**Date of receipt** : 23-March-2023 **Commenced On** : 23-March-2023 **Completion** : 27-March-2023  
**Sample Name** : AMBIENT AIR QUALITY MONITORING  
**Sample Condition** : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED  
**Quantity** : 4 NOS  
**Ref.To Sampling Procedure:** QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date</b> : AUTO GARAGE DT-21.02.2023				
Sulphur Dioxide	µg/m <sup>3</sup>	80	7.14	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	12.86	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	41.67	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	23.21	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.41	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	3.4	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10
<b>Location &amp; Date</b> : FPHS & MRP PLANT DT-21.03.2023				
Sulphur Dioxide	µg/m <sup>3</sup>	80	7.42	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	14.17	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	60.62	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	33.34	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.65	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	6.6	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10



KLPL-360388A





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



**NABL ULR NO** : TC704323000016152P  
**Test Report No** : KLPL/3/23/ENVN/02188  
**Amendment No** : -  
**Reference** : PO NUMBER :4920054932,PO DATE :24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.  
**Date of receipt** : 23-March-2023 **Commenced On** : 23-March-2023 **Completion** : 27-March-2023  
**Sample Name** : AMBIENT AIR QUALITY MONITORING  
**Sample Condition** : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED  
**Quantity** : 4 NOS  
**Ref.To Sampling Procedure:** QSP-07

Issue Date : 28-March-2023

Amendment Date : -

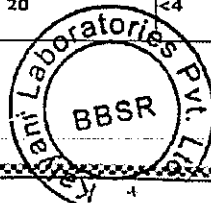
Parameters	Unit	Standard Value	Results	Test Method
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**Location & Date** : MRSS & CPP DT-21.03.2023

Sulphur Dioxide	µg/m <sup>3</sup>	80	8.84	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	15.78	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	63.60	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	34.81	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.68	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	5.6	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10

**Location & Date** : R & C LAB DT-21.03.2023

Sulphur Dioxide	µg/m <sup>3</sup>	80	6.05	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	11.89	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	46.62	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	25.34	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.45	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	3.1	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10



KLPL-380385A of 3



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



**NABL ULR NO** : TC704323000016152P  
**Test Report No** : KLPL/3/23/ENVN/02188  
**Amendment No** : -  
**Reference** : PO NUMBER : 4920054932, PO DATE : 24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.  
**Date of receipt** : 23-March-2023    Commenced On : 23-March-2023    Completion : 27-March-2023  
**Issue Date** : 27-March-2023  
**Amendment Date** : -  
**Sample Name** : AMBIENT AIR QUALITY MONITORING  
**Sample Condition** : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED  
**Quantity** : 4 NOS  
**Ref.To Sampling Procedure:** QSP-07

Parameters	Unit	Standard Value	Results	Test Method
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### Remarks

Any unusual feature observed during determination

End of Test Report

*D. Anil Kumar*  
 Analysed By  
 For Kalyani Laboratories Pvt. Ltd.

*[Signature]*  
 Authorised Signatory  
 For Kalyani Laboratories Pvt. Ltd.





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704322000014463P

Test Report No : 1524 | KLPL/10/22/ENVN/01891

Issue Date : 04-Nov-2022

Amendment No : -

Amendment Date : -

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 24-Oct-2022 Commenced On : 24-Oct-2022 Completion : 28-Oct-2022

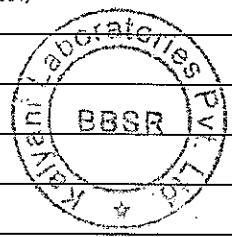
Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date : DEDUSTING SYSTEM - 21.10.2022</b>				
Sulphur Dioxide	mg/Nm <sup>3</sup>	-	20.5	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	-	28.4	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	-	60.67	KLPL/SOP/AIR-06
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.07	KLPL/SOP/AIR-06
Velocity	m/sec	-	9.3	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	336	KLPL/SOP/AIR-06
carbon Dioxide	%	--	8.8	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm3 / hr	-	1654	KLPL/SOP/AIR-06
Mercury	mg/Nm3	--	0.017	KLPL/SOP/AIR-06
<b>Location &amp; Date : DG STACK DT-20.10.2022</b>				
Sulphur Dioxide	mg/Nm <sup>3</sup>	-	10.2	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	-	15.2	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	-	49.29	KLPL/SOP/AIR-06
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.061	KLPL/SOP/AIR-06
Velocity	m/sec	-	6.5	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	328	KLPL/SOP/AIR-06
carbon Dioxide	%	--	7.8	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm3 / hr	-	1330	KLPL/SOP/AIR-06
Mercury	mg/Nm3	--	0.015	KLPL/SOP/AIR-06
<b>Location &amp; Date : DRYER STACK-4 DT-22.10.2022</b>				
Sulphur Dioxide	mg/Nm <sup>3</sup>	-	25.4	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	-	34.2	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	-	67.83	KLPL/SOP/AIR-06
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.064	KLPL/SOP/AIR-06
Velocity	m/sec	-	10.29	KLPL/SOP/AIR-06



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# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704322000014463P

Test Report No : 1524 | KLPL/10/22/ENVN/01891 Issue Date : 04-Nov-2022

Amendment No : - Amendment Date : -

Reference : PO NUMBER : 4920054932, PO DATE : 24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 24-Oct-2022 Commenced On : 24-Oct-2022 Completion : 28-Oct-2022

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Stack Temperature in Deg kelvin	--	-	348	KLPL/SOP/AIR-06
carbon Dioxide	%	-	8.2	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm3 / hr	-	1819	KLPL/SOP/AIR-06
Mercury	mg/Nm3	-	0.018	KLPL/SOP/AIR-06
<b>Location &amp; Date : GCP STACK DT-23.10.2022</b>				
Sulphur Dioxide	mg/Nm <sup>3</sup>	-	27.6	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	-	33.6	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	-	73.82	KLPL/SOP/AIR-06
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	-	0.075	KLPL/SOP/AIR-06
Velocity	m/sec	-	9.0	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	-	398	KLPL/SOP/AIR-06
carbon Dioxide	%	-	9.1	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm3 / hr	-	1226	KLPL/SOP/AIR-06
Mercury	mg/Nm3	-	0.020	KLPL/SOP/AIR-06

Remarks : -

Any unusual feature observed during determination

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

*D. Anup*  
Analysed By  
For Kalyani Laboratories Pvt. Ltd.

*m. s. s.*  
Authorised Signatory  
For Kalyani Laboratories Pvt. Ltd.



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Page 2 of 2  
KLPL- 358214A



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/914, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704322000015114P

Test Report No : KLPL/11/22/ENVN/01944A

Issue Date : 06-DEC-2022

Amendment No : -

Amendment Date : -

Reference : PO NUMBER : 4920054932, PO DATE : 24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 28-Nov-2022 Commenced On : 28-Nov-2022 Completion : 30-Nov-2022

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : ASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 2 NOS

Ref.To Sampling Procedure: QSP-07

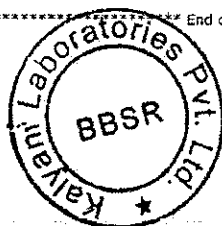
Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date : DEDUSTING SYSTEM - 25.11.2022</b>				
Sulphur Dioxide	mg/Nm <sup>3</sup>	--	19.3	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	25.2	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	52.62	KLPL/SOP/AIR-06
Carbon Monoxide	%	--	0.064	KLPL/SOP/AIR-06
Velocity	m/sec	--	7.0	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	347	KLPL/SOP/AIR-06
carbon Dioxide	%	--	8.1	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	--	1340.29	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.016	KLPL/SOP/AIR-06
<b>Location &amp; Date : DRYER STACK-4 DT-26.11.2022</b>				
Sulphur Dioxide	mg/Nm <sup>3</sup>	--	16.8	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	24.2	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	49.2	KLPL/SOP/AIR-06
Carbon Monoxide	%	--	0.055	KLPL/SOP/AIR-06
Velocity	m/sec	--	5.50	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	323	KLPL/SOP/AIR-06
carbon Dioxide	%	--	8.5	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	--	4687.60	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.015	KLPL/SOP/AIR-06

### Remarks

Any unusual feature observed during determination

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

Analysed By  
For Kalyani Laboratories Pvt. Ltd.



Authorized Signatory  
For Kalyani Laboratories Pvt. Ltd.



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704322000015114P

Test Report No : KLPL/11/22/ENVN/01944B Issue Date : 06-DEC-2022

Amendment No : - Amendment Date : -

Reference : PO NUMBER : 4920054932, PO DATE : 24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 28-Nov-2022 Commenced On : 28-Nov-2022 Completion On: 30-Nov-2022

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date : GCP STACK DT-28.11.2022</b>				
Sulphur Dioxide	mg/Nm <sup>3</sup>	--	24.6	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	30.2	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	61.35	KLPL/SOP/AIR-06
Carbon Monoxide (CO)	%	--	0.070	KLPL/SOP/AIR-06
Velocity	m/sec	--	7.4	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	338	KLPL/SOP/AIR-06
carbon Dioxide	%	--	8.2	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	--	1129	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.018	KLPL/SOP/AIR-06

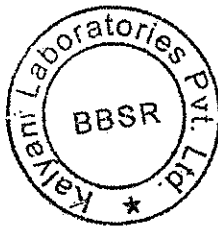
Remarks :

Any unusual feature observed during determination :

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

Analysed By *D. Asypta*  
For Kalyani Laboratories Pvt. Ltd.

*Pragati*  
Authorised Signatory  
For Kalyani Laboratories Pvt. Ltd.





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/941, MILLENIUM CITY PATHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



**NABL ULR NO** : TC704323000015404P  
**Test Report No** : KLPL/12/22/ENVN/02033A **Issue Date** : 02-Jan-2023  
**Amendment No** : - **Amendment Date** : -  
**Reference** : PO NUMBER :4920054932,PO DATE :24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.  
**Date of receipt** : 23-Dec-2022 **Commenced On** : 23-Dec-2022 **Completion** : 02-Jan-2023  
**Sample Name** : FLUE GAS | STACK MONITORING  
**Sample Condition** : ASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED  
**Quantity** : 2 NOS  
**Ref.To Sampling Procedure:** QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date : DEDUSTING SYSTEM - 26.12.2022</b>				
Sulphur Dioxide	mg/Nm <sup>3</sup>	--	17.1	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	22.2	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	49.15	KLPL/SOP/AIR-06
Carbon Monoxide	%	--	0.062	KLPL/SOP/AIR-06
Velocity	m/sec	--	7.3	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	336	KLPL/SOP/AIR-06
carbon Dioxide	%	--	7.9	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	--	1556.0	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.015	KLPL/SOP/AIR-06
<b>Location &amp; Date : DRYER STACK-4 DT-27.12.2022</b>				
Sulphur Dioxide	mg/Nm <sup>3</sup>	--	18.9	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	27.5	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	54.21	KLPL/SOP/AIR-06
Carbon Monoxide	%	--	0.058	KLPL/SOP/AIR-06
Velocity	m/sec	--	6.50	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	328	KLPL/SOP/AIR-06
carbon Dioxide	%	--	8.8	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	--	3436.0	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.016	KLPL/SOP/AIR-06

### Remarks

Any unusual feature observed during determination

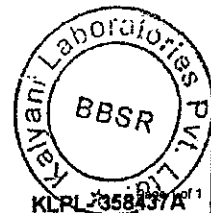
\*\*\*\*\* End of Test Report \*\*\*\*\*

*Arunka*

Analysed By  
For Kalyani Laboratories Pvt. Ltd.

*D. S. S. S.*

Authorised Signatory  
For Kalyani Laboratories Pvt. Ltd.





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



**NABL ULR NO** : TC704323000015404P  
**Test Report No** : KLPL/12/22/ENVN/02033B **Issue Date** : 02-Jan-2022  
**Amendment No** : - **Amendment Date** : -  
**Reference** : PO NUMBER :4920054932,PO DATE :24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.  
**Date of receipt** : 23-Dec-2022 **Commenced On** : 23-Dec-2022 **Completion On**: 02-Jan-2022  
**Sample Name** : FLUE GAS | STACK MONITORING  
**Sample Condition** : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED  
**Quantity** : 1 NO  
**Ref.To Sampling Procedure**: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date</b> : GCP STACK DT-28.12.2022				
Sulphur Dioxide	mg/Nm <sup>3</sup>	--	20.2	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	25.5	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	46.3	KLPL/SOP/AIR-06
Carbon Monoxide (CO)	%	--	0.065	KLPL/SOP/AIR-06
Velocity	m/sec	--	5.8	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	317	KLPL/SOP/AIR-06
carbon Dioxide	%	--	7.8	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	--	1044.0	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.014	KLPL/SOP/AIR-06

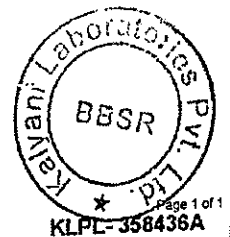
Remarks :

Any unusual feature observed during determination :

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

Analysed By *D. Anil Kumar*  
For Kalyani Laboratories Pvt. Ltd.

*[Signature]*  
Authorised Signatory  
For Kalyani Laboratories Pvt. Ltd.







# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



**NABL ULR NO** : TC704323000015754P  
**Test Report No** : KLPL/1/23/ENVN/02118A  
**Amendment No** : -  
**Reference** : PO NUMBER :4920054932,PO DATE :24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.  
**Date of receipt** : 28-Jan-2023 **Commenced On** : 28-Jan-2023 **Completion** : 06-Feb-2023

**Sample Name** : FLUE GAS | STACK MONITORING  
**Sample Condition** : ASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED  
**Quantity** : 2 NOS  
**Ref.To Sampling Procedure:** QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date</b> : DEDUSTING SYSTEM - 23.01.2023				
Sulphur Dioxide	mg/Nm <sup>3</sup>	--	15.2	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	20.1	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	44.62	KLPL/SOP/AIR-06
Carbon Monoxide	%	--	0.058	KLPL/SOP/AIR-06
Velocity	m/sec	--	11.3	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	408	KLPL/SOP/AIR-06
carbon Dioxide	%	--	7.9	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	--	15182	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.014	KLPL/SOP/AIR-06
<b>Location &amp; Date</b> : DRYER STACK-4 DT-24.01.2023				
Sulphur Dioxide	mg/Nm <sup>3</sup>	--	19.9	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	29.1	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	58.49	KLPL/SOP/AIR-06
Carbon Monoxide	%	--	0.061	KLPL/SOP/AIR-06
Velocity	m/sec	--	7.5	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	376	KLPL/SOP/AIR-06
carbon Dioxide	%	--	9.0	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	--	2093	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.017	KLPL/SOP/AIR-06

### Remarks

Any unusual feature observed during determination

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

*D Anurag*  
 Analysed By  
 For Kalyani Laboratories Pvt. Ltd.



*D Anurag*  
 Authorised Signatory  
 For Kalyani Laboratories Pvt. Ltd.



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



**NABL ULR NO** : TC704323000015754P  
**Test Report No** : KLPL/1/23/ENVN/02118A  
**Amendment No** : -  
**Reference** : PO NUMBER :4920054932,PO DATE :24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROMF PLANT ,D.P. NAGAR, RANDIA 756135,BHADRAK,ODISHA.  
**Date of receipt** : 28-Jan-2023 **Commenced On** : 28-Jan-2023 **Completion On**: 06-Feb-2023  
**Sample Name** : FLUE GAS | STACK MONITORING  
**Sample Condition** : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED  
**Quantity** : 1 NO  
**Ref.To Sampling Procedure**: QSP-07

Issue Date : 06-Feb-2023

Amendment Date : -

Completion On: 06-Feb-2023

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date</b> : GCP STACK DT-25.01.2023				
Sulphur Dioxide	mg/Nm <sup>3</sup>	--	21.0	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	26.9	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	46.83	KLPL/SOP/AIR-06
Carbon Monoxide (CO)	%	--	0.066	KLPL/SOP/AIR-06
Velocity	m/sec	--	5.7	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	351	KLPL/SOP/AIR-06
carbon Dioxide	%	--	7.9	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	--	1236	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.013	KLPL/SOP/AIR-06

Remarks :

Any unusual feature observed during determination :

End of Test Report

*D Anubh*

Analysed By  
For Kalyani Laboratories Pvt. Ltd.



*D Anubh*

Authorised Signatory  
For Kalyani Laboratories Pvt. Ltd.



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



NABL ULR NO : TC704323000015895P

Test Report No : KLPL/2/23/ENVN/02145

Issue Date : 25-Feb-2023

Amendment No : -

Amendment Date : -

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 13-Feb-2023 Commenced On : 13-Feb-2023 Completion : 24-Feb-2023

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : ASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 2 NOS

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
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Location & Date : DEDUSTING SYSTEM - 12.02.2023

Sulphur Dioxide	mg/Nm <sup>3</sup>	--	22.5	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	28.2	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	54.24	KLPL/SOP/AIR-06
Carbon Monoxide	%	--	0.065	KLPL/SOP/AIR-06
Velocity	m/sec	--	7.3	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	398	KLPL/SOP/AIR-06
carbon Dioxide	%	--	8.2	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm3 / hr	--	3212	KLPL/SOP/AIR-06
Mercury	mg/Nm3	--	0.016	KLPL/SOP/AIR-06

Location & Date : DRYER STACK-4 DT-13.02.2023

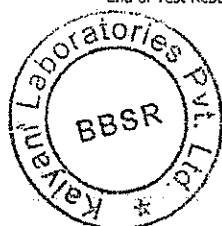
Sulphur Dioxide	mg/Nm <sup>3</sup>	--	16.2	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	24.2	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	45.15	KLPL/SOP/AIR-06
Carbon Monoxide	%	--	0.055	KLPL/SOP/AIR-06
Velocity	m/sec	--	6.60	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	378	KLPL/SOP/AIR-06
carbon Dioxide	%	--	8.6	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm3 / hr	--	2367	KLPL/SOP/AIR-06
Mercury	mg/Nm3	--	0.015	KLPL/SOP/AIR-06

Remarks

Any unusual feature observed during determination

End of Test Report

Analysed By  
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory  
For Kalyani Laboratories Pvt. Ltd.

KLPL- 360120A<sup>1</sup> of



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751052, ODISHA

## TEST REPORT



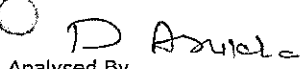
**NABL ULR NO** : TC704323000015895P  
**Test Report No** : KLPL/2/23/ENVN/02145A **Issue Date** : 25-Feb-2023  
**Amendment No** : - **Amendment Date** : -  
**Reference** : PO NUMBER :4920054932,PO DATE :24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.  
**Date of receipt** : 13-Feb-2023 **Commenced On** : 13-Feb-2023 **Completion On**: 24-Feb-2023  
**Sample Name** : **FLUE GAS | STACK MONITORING**  
**Sample Condition** : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED  
**Quantity** : 1 NO  
**Ref.To Sampling Procedure**: QSP-07

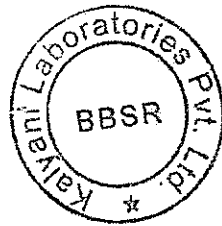
Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date</b> : GCP STACK DT-11.02.2023				
Sulphur Dioxide	mg/Nm <sup>3</sup>	--	19.6	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	25.1	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	45.15	KLPL/SOP/AIR-06
Carbon Monoxide (CO)	%	--	0.064	KLPL/SOP/AIR-06
Velocity	m/sec	--	8.3	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	428	KLPL/SOP/AIR-06
carbon Dioxide	%	--	7.7	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	--	809	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.012	KLPL/SOP/AIR-06

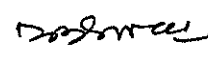
Remarks :

Any unusual feature observed during determination :

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

  
 Analysed By  
 For Kalyani Laboratories Pvt. Ltd.



  
 Authorised Signatory  
 For Kalyani Laboratories Pvt. Ltd.



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/94, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



**NABL ULR NO** : TC704323000016153P  
**Test Report No** : KLPL/3/23/ENVN/02189  
**Amendment No** : - **Amendment Date** : -  
**Reference** : PO NUMBER :4920054932,PO DATE :24.05.2022  
**Customer Name** : FERRO ALLOYS CORPORATION LTD.  
**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.  
**Date of receipt** : 23-March-2023 **Commenced On** : 23-March-2023 **Completion** : 27-March-2023  
**Sample Name** : FLUE GAS | STACK MONITORING  
**Sample Condition** : ASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED  
**Quantity** : 2 NOS  
**Ref.To Sampling Procedure:** QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date : DEDUSTING SYSTEM – 21.03.2023</b>				
Sulphur Dioxide	mg/Nm <sup>3</sup>	--	20.2	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	25.2	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	50.14	KLPL/SOP/AIR-06
Carbon Monoxide	%	--	0.062	KLPL/SOP/AIR-06
Velocity	m/sec	--	7.9	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	408	KLPL/SOP/AIR-06
carbon Dioxide	%	--	8.0	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	--	4020	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.015	KLPL/SOP/AIR-06
<b>Location &amp; Date : DRYER STACK-4 DT-21.03.2023</b>				
Sulphur Dioxide	mg/Nm <sup>3</sup>	--	18.5	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	26.6	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	54.03	KLPL/SOP/AIR-06
Carbon Monoxide	%	--	0.059	KLPL/SOP/AIR-06
Velocity	m/sec	--	6.4	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	398	KLPL/SOP/AIR-06
carbon Dioxide	%	--	8.9	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	--	2203	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.017	KLPL/SOP/AIR-06

### Remarks

Any unusual feature observed during determination

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

*D. Jaykhe*  
 Analysed By  
 For Kalyani Laboratories Pvt. Ltd.



*D. Jaykhe*  
 Authorised Signatory  
 For Kalyani Laboratories Pvt. Ltd.



# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

## TEST REPORT



**NABL ULR NO** : TC704323000016153P

**Test Report No** : KLPL/3/23/ENVN/02189

**Amendment No** : -

**Reference** : PO NUMBER :4920054932,PO DATE :24.05.2022

**Customer Name** : FERRO ALLOYS CORPORATION LTD.

**Address** : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.

**Date of receipt** : 23-March-2023      **Commenced On** : 23-March-2023      **Completion On** : 27-March-2023

**Sample Name** : **FLUE GAS | STACK MONITORING**

**Sample Condition** : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

**Quantity** : 1 NO

**Ref.To Sampling Procedure:** QSP-07

**Issue Date** : 27-March-2023

**Amendment Date** : -

Parameters	Unit	Standard Value	Results	Test Method
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Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date</b> : GCP STACK DT-21.03.2023				
Sulphur Dioxide	mg/Nm <sup>3</sup>	--	14.6	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	--	22.1	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	--	37.18	KLPL/SOP/AIR-06
Carbon Monoxide (CO)	%	--	0.056	KLPL/SOP/AIR-06
Velocity	m/sec	--	8.4	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	408	KLPL/SOP/AIR-06
carbon Dioxide	%	--	7.1	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	--	853	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.010	KLPL/SOP/AIR-06

Remarks :

Any unusual feature observed during determination :

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

*D Anurupa*  
 Analysed By  
 For Kalyani Laboratories Pvt. Ltd.

*[Signature]*  
 Authorised Signatory  
 For Kalyani Laboratories Pvt. Ltd.



KLPL-360788A of 1



**vedanta**  
transforming elements



Ref: FACOR/HSE/ES/22-1

Date: 30.09.2022

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

**Sub: Submission of Environment Statement for the year 2021-22 by M/s Ferro Alloys Corporation Limited, Randia, Bhadrak.**

Sir,

With reference to the above cited subject, please find enclosed copy of Environmental Statement for the financial year ending 31<sup>st</sup> March 2022 in Form-V by M/s Ferro Alloys Corporation, Charge Chrome Plant for your kind perusal.

Thanking you,

Yours faithfully,  
For Ferro Alloys Corporation Limited,  
Charge Chrome Plant.

Sandeep K Acharya  
Chief HSE Officer

Copy to: The Regional Officer, SPCB, Balasore.

**FORM V***(See Rule 14)***Environmental Statement for the Financial Year Ending 31<sup>st</sup> March 2021.****PART – A**

- i. **Name and address of the owner/occupier of the industry operation process.**  
Shri Sauvick Mazumdar, Occupier,  
M/s. Ferro Alloys Corporation Ltd.,  
Charge Chrome Plant, Randia-756135,  
Dist. Bhadrak, Orissa.
- ii. **Industry category Primary – Large**
- iii. **Production Capacity-Units - Charge Chrome/High Carbon Ferro Chrome**  
69,250.58 MT/Annum of Total Production from  
Smelting Furnace out of total capacity 75000 MT/A  
Charge Chrome 5,745 MT/Annum from Metal Recovery  
Plant out of total capacity 6300 MT/A.
- iv. **Year of Establishment - 7<sup>th</sup> March, 1983.**
- v. **Date of the last environmental statement submitted – 28.09.2021.**

**PART – B****Water and Raw Material Consumption****1. Water Consumption m<sup>3</sup>/day**

Process Cooling – 246

Domestic – 694

Name of Products	Process Water Consumption Per Unit of Product Output	
	During the Previous Financial Year 2020-21	During the Current Financial Year 2021-22
Process and Cooling	1.089 m <sup>3</sup> /MT	1.296 m <sup>3</sup> /MT

**2. Raw Material Consumption**

Name of Raw Materials	Name of Products	Consumption of Raw Material Per Unit of Output	
		During the Previous Financial Year 2020-21	During the Current Financial Year 2021-2022
Chrome Ore	Charge Chrome/ High Carbon Ferro Chrome	2.456 MT	2.603 MT
Coke		0.564 MT	0.633 MT
Quartzite		0.030 MT	0.011 MT
Bauxite		-	0.060 MT
Electrode Paste		12.420 Kg	13.499 Kg
Hydrated Lime		0.060 MT	0.072 MT



**PART – C**

**Pollution Discharge to Environment/ Unit of Output**  
(Parameter as Specified in the Consent Issued)

(1) Pollutants	Quantity of Pollutant Discharged (Mass/Day)	Concentration Pollutants in Discharge (Mg/Ltr)	Percentage of Variation from Prescribed Standards with Reasons (Mg/Ltr) STANDARD
(a) <u>Water</u> PH BOD COD TDS TSS Cr <sup>+6</sup> Oil & grease	Zero Discharge	7.4 10 50 350.0 18 Less than 0.05 0.4	5.5 – 9.0 30 250 - 100 0.1 10
(b) <u>Air (Ambient)</u> PM 10 PM 2.5 SO <sub>2</sub> NO <sub>2</sub> CO	- - - - -	<u>µg/ m<sup>3</sup></u> 71.97 38.17 8.43 15.52 0.35	<u>µg/ m<sup>3</sup></u> 100 60 80 80 4 mg/ m <sup>3</sup>

**PART – D**

**Hazardous Waste**

(As Specified Under Hazardous Waste (Management and Handling) Rule, 2016)

Hazardous Wastes	Total Quantity (Kg)	
	During the Previous Financial Year 2020-21	During the Current Financial Year 2021-22
a) From Process used oil	-	0.36 KL
b) From pollution control facility flue dust from G.C.P.	1701.77 MT are utilized as raw material in the furnace area after making pallets/ Briquettes	1924.82 MT are utilized as raw material in the furnace area after making pallets/ Briquettes

**PART – E  
Solid Wastes**

Solid Waste	Total Quantity	
	During the Previous Financial Year 2020-21	During the Previous Financial Year 2021-22
(a) From Process	68,093.00 MT (Slag)	75,378.00 MT (Slag)
(b) From Pollution Control Facility	-	-
(c) 1) Quantity Recycle and Re-Utilized within the Unit	Part of Jigging Slag used for Civil Construction Work	Part of Jigging Slag used for Civil Construction Work
2) Solid	-	-
3) Disposed	Used for filling low lying areas within plant premises	Used for filling low lying areas within plant premises

**PART – F**

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

- The granulated slag generated from the process is used for filling low lying areas in plant premises.
- Slag generated from the Metal Recovery Plant also used for filling low lying areas. Some portion of the jigging slag also used for civil construction work i.e. road making, floor concreting etc.
- Flue dust generated from the Gas Cleaning Plant is re-used as raw material in the furnace after making pallets/briquettes.
- Waste batteries are sold to authorised dealer/recycler under battery Rule 2001, and Returns submitted to State Pollution Control Board.
- Solid waste like Waste Cotton, Empty Bottles, Jerry Canes, Rejected Spares and Steel Scrapes etc. are stored in proper manner, so that it shall not pose any threat to Environment. Moreover, some of those items have scrap values and disposed off with price realization.
- The solid waste like Waste Paper, Biological Waste, Domestic Waste and Canteen Waste etc. are allowed to decompose in waste bins. The same is used as manure after decomposition.

## PART – G

### Impact of the pollution statement measures taken on conservation of natural resources and on the cost of production.

- The water used in MRP is re-circulated and make up water is supplied from the rain water harvesting pond. The water from the rain water harvesting pond also used for granulation plant, metal cooling, dust suppression and green belt development, thereby saving consumption of fresh water.
- The flue dust collected from the Gas Cleaning Plant and Dryer stacks are reused as raw material in the process.
- By using jiggling slag in civil construction work, company saves cost of stone chips.
- The solid waste like waste batteries, E- Waste, steel scraps, empty barrels, jerry canes etc. are disposed off with price realization.
- Biodegradable waste like waste paper, biological waste, domestic waste and canteen waste are used as manure for gardening after decomposition.
- FACOR being an 14001 & 50001 certified company, doing a lot for the conservation of Energy and Natural Resources.
- Furnace cooling water is re-circulated in a close circuit and make up water is added in to it.

## PART – H

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

#### Expenditure for Environmental Protection FY 2021-22

i)	Installation of Surface Runoff Treatment System	:	1,71,69,000/-
ii)	Installation of STP (50KLD)	:	20,29,865/-
iii)	Installation of Dedusting system at Agglomeration	:	1,75,23,000/-
iv)	Greenbelt development & engagement of worker for plantation maintenance work	:	2,90,000/-
v)	Engagement of Water Tanker & water sprinkler for dust suppression	:	3,20,000/-

#### Investment Proposal for Environmental Protection FY 2022-23

- Installation of New Cooling Tower – Rs. 39,72,120/-
- Installation of CAAQMS, CFMS, CWMS & data transmission – Rs.62,85,200/-
- Maintenance of GCP - Rs. 4,20,50,000/-
- Installation of STP (10KLD) – Rs. 35,00,000/-
- Installation of Digital display board – Rs. 2,00,000/-
- Installation of Digital flowmeter & Piezometer with Telemetry – Rs. 9,47,080/-

- Installation of Digital flowmeter & Piezometer with Telemetry – Rs. 9,47,080/-
- Installation of New GCP for 33MVA project – Rs.1,40,32,000/-
- Deployment of Road sweeping machine O&M – Rs. 15,00,000/-
- Installation of Mist cannon / DSS – Rs. 25,00,000/-

#### **PART – I**

##### **Any other particulars for improving the quality of the environment.**

- FACOR is a certified company of Quality Management System (ISO-9001: 2015), Environmental Management System (ISO-14001: 2015), Occupational Health & ISO 45001:2018 and Energy Management System (ISO-50001:2018).
- FACOR being an ISO 14001-2015 Company, engaged a dedicated team of members in Environmental Management System for strictly implementing and maintaining the Environment Policy framed by Managing Director.