

Dtd.08.01.2022

To

Deputy Director General of Forests (C),
Ministry of Env., Forest and Climate Change,
Integrated Regional Office,
A/3, Chandrasekharapur,
Bhubaneswar - 751023
Email: roez.bsr-mef@nic.in

- Ref :**
- 1. Environment Clearance letter No. :** F.No.J-11011/594/2008-IA II (I), dtd. 04.05.2009.
 - 2. Name of the Project:** Expansion of Ferro Alloys Plant (High Carbon Ferro Chrome, 65,000 TPA to 1,30,000 TPA) at Randia, District Bhadrak, Orissa by M/s. Ferro Alloys Corporation Ltd.
 - 3. Order dtd.30.01.2020** passed by NCLT Cuttack Bench approving Resolution Plan as per IBC.
 - 4. Guidelines issued by your good office letter no.106-12 /EPE, dtd.11.05.2020.**

Sub : **Submission of Six Monthly Compliances Report against Environment Clearance letter No. : F.No.J- 11011/594/2008-IA II (I), dtd. 04.05.2009 issued to M/s. Ferro Alloys Corporation Ltd. for the period from 30.01.2020 (Plan effective date) upto September-2021.**

Dear Sir,

In compliance to the guidelines issued by your good office vide letter no.106-12 /EPE, dtd.11.05.2020, regarding submission of half yearly compliance report against approved Environment Clearance, we would like to bring to your kind notice that, M/s. Ferro Alloys Corporation Limited ("Company") has recently undergone Corporate Insolvency Resolution Process (CIRP) under the Insolvency and Bankruptcy Code, 2016, wherein the resolution plan submitted by Sterlite Power Transmission Limited (a group of company of Vedanta Ltd.) for was approved by the Hon'ble National Company Law Tribunal, Cuttack Bench, vide its order dated January 30, 2020. Copy of the NCLT order is enclosed herewith as **Annexure-1**.

1. That pertinent to mention here that according to Section-31(10) of IBC-2016 r/w Para-19 of the Order dtd.30.01.2020 passed by Hon'ble National Company Law Tribunal, the approved Resolution Plan shall be binding on the Company, Corporate Debtor, its employees, members, all Creditors including Central/State Government and local authorities, guarantors and other Stakeholders.
2. That pursuant to the said order dt.30.01.2020 passed by the Hon'ble National Company Law Tribunal (NCLT) Cuttack, the Board of Directors of the Company has been newly formed on dt.21.09.2020 to implement the approved Resolution Plan. Copy of the Board Resolution with respect to change of Board of Directors w.e.f 21.09.2020 is enclosed herewith as **Annexure-2** for reference and records.
3. That in compliance to the provisions made in the approved resolution plan, the day to day operation and maintenance of the company after change of control are being handled under the supervision of the new Board of Directors of the company w.e.f 21.09.2020. From the date of formation of new Board, we are complying all the statutory compliances of the company in due time without fail.

4. That recently during searching of the statutory records of the company, we found that one guideline dtd.11.05.2020 had been issued by your good office mentioning about the procedure for submission of Six Monthly Compliances Report against the Environment Clearance granted by the Ministry of Environment and Forest (MOEF), Government of India.
5. That since the Plan effective date as per NCLT Order and as per IBC-2016 is 30.01.2020, in compliance to the aforesaid guideline, we are submitting herewith Four numbers of Six Monthly Compliance Reports to MoEF along-with annexures thereof for the period from :
 - (1) October -2019 upto March-2020
 - (2) April-2020 upto September 2020
 - (3) October-2020 upto March-2021
 - (4) April-2021 upto September-2021.
6. That delay filing of the above Four nos. of compliance reports may kindly be condoned considering the facts that the company was under CIRP process from 06.07.2017 upto 30.01.2020 as per the order of National Company Law Tribunals of Kolkata as well as Cuttack Bench.
7. That being a law-abiding organization, we do also hereby undertake that from today onwards we will submit all the statutory compliances within due time without any fail.
8. That we are committed to abide by the order of Hon'ble NCLT Cuttack Bench to implement the approved Resolution Plan effectively by following all the guidelines, circulars and Notices issued from time to time by the Ministry of Environment and Forest (MOEF), Government of India.

In light of the above facts and considering the provision of IBC-2016, we do hereby request you kindly acknowledge receipt of above four nos. of Six-Monthly Compliances by condoning the delay in submissions.

Your kind co-operation and lenient view in this regard is highly solicited to regularize this compliance and condone the delay in submission of reports.

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 Forest, Paryavaran Bhawan, New Delhi.



IN THE NATIONAL COMPANY LAW TRIBUNAL
CUTTACK BENCH
CUTTACK

CA (IB) No. 157/CTB/2019
Connected with
TP No. 42/CTB/2019
Arising out of
CP (IB) No. 251/KB/2017

CORAM: 1. Ms. Sucharitha R. (J)
2. Shri Satya Ranjan Prasad (T)

In the matter of:
INSOLVENCY AND BANKRUPTCY CODE, 2016.

In the matter of:
An application under Section 30 (6) read with Section 31 (1) of the
Insolvency and Bankruptcy Code, 2016 read with Regulation 39 (4) of the
Insolvency and Bankruptcy Board of India (Insolvency Resolution Process
for Corporate Persons) Regulations, 2016.

-And-

In the Matter of:
Mr. Bhuvan Madan, the Resolution Professional of Ferro Alloys Corporation
Limited.

... .. Applicant

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-And-

In the Matter of:

Rural Electrification Corporation, a company incorporated under the provisions of the Companies Act, 1956 and having its Registered Office at Core – 4, SCOPE Complex, 7, Lodhi Road, New Delhi – 110 003.

... .. **Financial Creditor**

-Versus-

Ferro Alloys Corporation Limited, a company incorporated under the provisions of Companies Act, 1956 having its Registered Office at D.P. Nagar, Village P.O. Randia, District – Bhadrak, Odisha – 756 335.

... .. **Corporate Debtor**

Counsels on record:

1. Mr. D. Basu Adv.] For the REC Ltd.

1. Mr. Saurav Panda, Adv.]

2. Ms. Charu Bansal, Adv.] For the Resolution Professional.

3. Mr. Raj Mohanty, Adv.]

1. Mr. Prasenjeet Mohapatra, Adv.]

2. Jr. Standing Counsel, GST] For the CA No. 162 & IA No.176 of 2019

1. Mr. A.N. Das]

2. Mr. N. Sarkar] For Intervenor in CA (IB) No. 160/CTB/2019.

3. Mr. Aamir Khan]

1. Mr. K.C. Satapathy] For Financial Creditor, BOI.

1. Mr. Jishnu Saha, Sr. Adv.]

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2. Mr. Rajarshi Dutta, Adv.]
3. Mr. N.S. Auluwalia, Adv.]
4. Mr. Saswat Acharya, Adv.] For the erstwhile Promoters.
5. Mr. Adhish Sharma, Adv.]
6. Mr. A. Mohanty, Adv.]
7. Mr. A.K. Dey, Adv.]

1. Mr. Lalatendu Mohanty] For the CA No. 92/CTB/2019.

1. Mr. Diwakar Maheshwari, Adv.]
2. Mr. Amit Patnaik, Adv.] For the Sterlite Power.
3. Ms. Pratiksha Mishra, Adv.]

Date of Pronouncement of Order: 30th day of January, 2020

ORDER

Per Ms. Sucharitha R., Member (J):

1. This application has been filed by Resolution Professional under Section 30 (6) read with Section 31 (1) of the Insolvency and Bankruptcy Code, 2016 read with Regulation 39 (4) of the Insolvency and Bankruptcy Board of India (Insolvency Resolution Process for Corporate Persons) Regulations, 2016 for approval of the Resolution Plan submitted by the successful Resolution Applicant i.e. Sterlite Power Transmission Limited.

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2. Facts of the case: -

- (i) By Order dated 06.07.2017 passed by the NCLT, Kolkata Bench, the Corporate Insolvency Resolution Process of the Corporate Debtor M/s Ferro Alloys Corporation Limited commenced. Mr. K.G. Somani was appointed as Interim Resolution Professional. In the Committee of Creditors Meeting held on 08.08.2017, IRP Mr. K.G. Somani was appointed as Resolution Professional.
- (ii) The Promoters of the Corporate Debtor filed a Company Appeal (AT) No. 92 of 2019 before the Hon'ble NCLAT challenging the Order of admission dated 06th July, 2017. By Order dated 08th January, 2019, the Hon'ble NCLAT dismissed the appeal. The Hon'ble Apex Court also dismissed the appeal vide Order dated 11th February, 2019.
- (iii) In CA No. 309/2018 it was submitted that the Corporate Insolvency Resolution Process of 270 days was due to expire on 02.04.2018. In C.A. No. 309 of 2018, the Resolution Professional sought exclusion of 120 days lost in the litigation. The Hon'ble NCLT, Kolkata Bench by Order dated 04th March, 2019 granted

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exclusion of only 45 days from the Corporate Insolvency Resolution Process. The said 45 days was to expire on 19th April, 2019. However, the Corporate Insolvency Resolution Process could not be completed. Hence, another application was filed before Hon'ble NCLT, Cuttack Bench dated 22nd April, 2019.

(iv) IA No. 18/CTB/2019 was filed for replacement of the present Resolution Professional in the place of the erstwhile Resolution Professional. Committee of Creditors passed this resolution with 100 % voting. Meanwhile, another IA No. 19/CTB/2019 was filed seeking further exclusion of 30 days from the Corporate Insolvency Resolution Process. Both this application was allowed by this Adjudicating Authority by Order dated 08th July, 2019. The present Resolution Professional Mr. Bhuvan Madan was appointed and 30 days of exclusion of Corporate Insolvency Resolution Process period was also granted. Hence, both IA No. 18/CTB/2019 and IA No. 19/CTB/2019 were allowed.

(v) Another CA No. 75/CTB/2019 was filed before this Adjudicating Authority for the exclusion of days lost in the litigations. After considering the facts and circumstances of the case, this Adjudicating Authority by Order dated 08th August, 2019

granted 98 days of exclusion from the Corporate Insolvency Resolution Process. Thereby the Corporate Insolvency Resolution Process shall end on 14th November, 2019.

- (vi) It is evident from Form – H that public notice was issued on 08.07.2017. The Committee of Creditors was constituted on 01st August, 2017. The 1st Committee of Creditors Meeting was held on 04th August, 2017.
- (vii) It is evident from Form – H that registered valuers were appointed on 02.08.2017, 16.03.2019 and 26.08.2019. As per Form – H, the details of fair and liquidation value are hereunder: -

Fair Value	As on 31 st Dec, 2018 RBSA – INR 541.56 cr. MITCON – INR 479.39 cr.
	As on 30 th June, 2019 Mr. Sachin Garg and Mr. Nitin Garg (C/o GAA Advisory) – INR 448.24 cr.
Liquidation Value	As on 06 th July, 2017 RBSA – INR 367.13 cr.; MITCON – INR 367.21 Cr.
	As on 31 st Dec, 2018 RBSA – INR 350.44 cr.; MITCON – INR 370.64 cr.
	As on 30 th June, 2019 (On Piecemeal Basis)

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3. The applicant submits that Request For Resolution Plan (RFRP) dated 19th August, 2019 was called from the prospective Resolution Applicants. As per the invitation, the last date for submission of the plan was 30th September, 2019. However, this date was extended and finally extended up to 30th October, 2019. The Resolution Professional received 7 (Seven) prospective applications which was noted in the 20th Committee of Creditors Meeting held on 16th October, 2019. The Resolution Applicants are: -

- a) Jindal Stainless (Hisar) Limited;
- b) Sterlite Power Transmission Limited;
- c) Indian Metals and Ferro Alloys Limited;
- d) Prudent ARC Limited;
- e) MOIL Limited;
- f) Asset Reconstruction Company (India) Limited;
- g) Essel Mining and Industries Limited.

4. Out of seven Resolution Applicant, who have expressed interest only one Resolution Applicant, namely, Sterlite Power Transmission Limited (SPTL) submitted a Resolution Plan on 30th October, 2019. This was opened in the 29th Meeting of the Committee of Creditors held on 30th October, 2019. Thereafter on 07th November, 2019, another Resolution Applicant, namely, (IMR) Metallurgical Resources AG also

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contacted the Resolution Professional and expressed their interests to submit a Resolution Plan. It is to be noted that the last date for submission of the Resolution Plan as per RFRP expired on 30th October, 2019. The Committee of Creditors in their 30th Meeting held on 07th November, 2019 with voting share of 91.60 % decided to permit IMR Metallurgical Resources AG to submit their Resolution Plan. The Resolution Plan submitted by the IMR Metallurgical Resources AG was received and opened on 30th Meeting of Committee of Creditors. The other Resolution Applicant SPTL was also informed and they have not expressed any objection to that. In the 30th Committee of Creditors Meeting both the Resolution Plans were discussed.

5. The 31st Meeting of committee of Creditors held on 11th November, 2019 which was adjourned and continued on 12th November, 2019. The Resolution Plan of both SPTL and IMR Metallurgical Resources AG were presented before the Committee of Creditors. In the same Meeting, the proposal for settlement by the promoters under Section 12 (A) of the Code, was also discussed. However, the Financial Creditor i.e. REC Ltd. was not satisfied with the settlement proposals of the promoters/Directors. Hence, the settlement proposal was rejected. Thereafter, the Resolution Plans were taken up for consideration.

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6. Both the Resolution Plans were taken up for consideration by the Committee of Creditors. Both the Resolution Plans complied with the mandatory requirements stipulated under Section 30 (2) of the Code read with Regulations thereunder. The Committee of Creditors discussed the feasibility and viability of the Resolution Plans and the capability of the Resolution Applicants to implement the Resolution Plan and carry out the evaluation of the Resolution Plans. Finally, a evaluation matrix was arrived at, as per the scoring rate Sterlite Power Transmission Limited (STPL) scored 91.26%, IMR Metallurgical Resources AG score was 80.42 %. Based on the evaluation criteria set out in the RFRP Sterlite Power Transmission Limited was declared as a highest evaluated Resolution Applicant. The 31st Committee of Creditors Meeting held on 13th November, 2019, the Resolution Plan submitted by M/s Sterlite Power Transmission Limited (SPTL) was approved by the Committee of Creditors by 95.15 % of voting shares.

7. The list of Financial Creditors of the CD – Ferro Alloys Corporation Limited, being members of the CoC and distribution of voting share among them is as under: -

Sl. No.	Name of Creditor	Voting Share (%)	Voting for Resolution Plan (Voted for/Dissented/Abstained)
1	Rural Electrification Corporation Limited (RECL)	91.60 %	Voted For

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2	Syndicate Bank		0.45 %	Abstained
3	Central Bank of India		3.55 %	Voted for
4	Bank of India		2.26 %	Dissented
5	State Bank of India		0.74 %	Dissented
6	Toplight Management Limited	Corporate Private	1.39 %	Abstained
7	Aroma Plantation Limited	Private	0.01 %	Abstained
Total			100.00 %	

8. Resolution Plans as per the evaluation matrix and declaration of the highest scoring Resolution Applicant is as under: -

Sterlite Power Transmission Limited: -

Evaluation Criteria	Score
1. Upfront Cash	37.76
2. NPV factoring including upfront cash	25.00
3. Equity infusion for improvement in ops	10.00
4. NPV of operational creditors	-
Subtotal (out of 80)	72.76
5. Reasonableness of financial projections	8.50
6. Ability to turnaround	5.00
7. Standing of the RA	5.00

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Subtotal (out of 20)	18.50
Grand Total (out of 100)	91.26

IMR Metallurgical Resources AG: -

Evaluation Criteria	Score
1. Upfront Cash	40.00
2. NPV factoring including upfront cash	24.92
3. Equity infusion for improvement in ops	-
4. NPV of Operational Creditors	5.00
Subtotal (Out of 80)	69.92
5. Reasonableness of financial projections	5.50
6. Ability to turnaround	2.50
7. Standing of the RA	2.50
Subtotal (Out of 20)	10.50
Grand Total (Out of 100)	80.42

Voting Results: -

Particulars	Voting (in Nos.)	Voting Share (in INR Cr.)	Voting Share (in%)	Result declared for the above Resolution
Voting in Favour	2	769.60	95.15 %	Approved
Voting Cast Against	2	24.27	3.00 %	

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Voting Cast Abstained	3	14.95	1.85 %
Total	7	808.82	100.00 %

9. The amounts provided for the stakeholders under the approved Resolution Plan is as under: -

(Amount in Rs. cr.)

Sl. No.	Category of Stakeholder	Amount Claimed (in crores)	Amount Admitted (in crores)	Amount Provided under the Plan#	Amount Provided to the Amount Claimed (%)
1	Secured Financial Creditors	79.51	42.16	14.60#	18.36 %
2	Unsecured Financial Creditors	834.17	766.66	265.40#	31.81 %
3	Related parties Financial Creditors	17.53	17.53	NIL	NIL
4	Operational Creditors	6.01	5.84	NIL	NIL
	Government Workmen	353.61	220.58	NIL	NIL
	Employees	NIL	NIL	NIL	NIL
		NIL	NIL	NIL	NIL
5	Other Debts and Dues	NIL	NIL	NIL	NIL
Total		1290.83	1052.77	280#	

10. The Letter of Intent dated 14th November, 2019 was issued to the successful Resolution Applicant. It was resolved to file Approved Resolution Plan before the Adjudicating Authority for approval in terms of Section 30 (6) of the Code. Further, the successful Resolution Applicant has also undertaken to provide Performance Bank Guarantee in

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compliance with Regulation 36 (4A) of the CIR Regulations as contemplated in the RFRP. The mandatory requirements envisaged under Section 30 (2) of the Code is as follows: -

SECTION/ REGULA TION	REQUIREMENT	CLAUSE OF THE RESOLUTION PLAN/ADDITION AL DOCUMENTS
Section 29A of the Code.	This disqualification under Section 29A of the Code should not apply.	Section 3 (m) of the Resolution Plan read with the affidavit dated 30 th October, 2019 submitted by the Successful Resolution Applicant.
Section 30 (2) (a) of the Code.	The Resolution Plan provides for the payment of insolvency resolution process costs in a manner specified by the Board in priority to the repayment of other debts of the Corporate Debtor.	Section 3 (a) of the Resolution Plan.
Section 30 (2) (b) of the Code.	The Resolution Plan provides for the payment of the debts of Operational Creditors in such manner as may be specified by the Board which shall not be less than the amount to be paid to the Operational Creditors in the event of a liquidation of the Corporate Debtor under Section 53 or less than the amount payable to Operational Creditors if the resolution proceeds were to be distributed in accordance with the priority under Section 53, whichever is higher.	Section 3 (b) and 3 (e) of the Resolution Plan.
Section 30 (2) (b)	The Resolution Plan provides for the payment of liquidation value to the dissenting Financial Creditors.	Section 3 (e) of the Resolution Plan.
Section 30 (2) (c) of	The Resolution Plan provides for the management of the affairs of the	Section 8 and 9 of the Resolution Plan.

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the Code.	Corporate Debtor after approval of the Resolution Plan.	
Section 30 (2) (d) of the Code.	The Resolution Plan provides for the implementation and supervision of the Resolution Plan.	Section 9 and 10 of the Resolution Plan.
Section 30 (2) (e) of the Code.	The Resolution Plan does not contravene any of the provisions of the law for the time being in force.	Part C of Format IX in the Resolution Plan.

11. In addition to the above, the Resolution Plan also complied with the following Regulations: -

Regulation 38 (1) of the CIR Regulations.	The amount due to the Operational Creditors under a Resolution Plan shall be given priority in payment over Financial Creditors.	Section 3 (b) and 3 (e) of the Resolution Plan.
Regulation 38 (1A) of the CIR Regulations.	The Resolution Plan shall include a statement as to how it has dealt with the interests of all stakeholders, including Financial Creditors and Operational Creditors, of the Corporate Debtor.	Section 3 (1) of the Resolution Plan.
Regulation 38 (2) (a) of the CIR Regulations.	The Resolution Plan shall provide the term of the plan and its implementation schedule.	Section 10 of the Resolution Plan.
Regulation 38 (3) (a)	The Resolution Plan shall demonstrate that it addresses the cause of default.	Section 5 of the Resolution Plan.
Regulation 38 (3) (c)	The Resolution Plan shall have provisions for its effective implementation.	Section 7, 8, 9 and 10 of the Resolution Plan.
Regulation 38 (3) (d)	The Resolution Plan shall have provisions for approvals required and the timeline for the same.	Section 7 of the Resolution Plan.

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The mandatory requirements of the provisions of the Insolvency and Bankruptcy Code, 2016 and CIR Regulations are complied with.

12. Summary of the Approved Resolution Plan as stated in the application: -

(i) **Corporate Insolvency Resolution Process costs – CIR**
Process cost shall be paid in full and in priority to other creditors from the cash flow generated by the Corporate Debtor. In case of any shortfall, the successful Resolution Applicant will infuse funds by way of equity or convertible securities or subordinate convertible loans or any other appropriate means, as cash flows of the Corporate Debtor shall ensure priority payment.

(ii) **Employees and workmen's dues -** The Corporate Debtor is an "ongoing concern". There is no outstanding amount due and payable to the employees/workmen. However, if there is any due, they shall be treated *pari passu* with Financial Creditors and shall be paid in full from the cash flows of the Corporate Debtor in priority over the Financial Creditors.

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(iii) **Assenting Financial Creditors** – Against the total verified amount of Rs. 808.82 Crores, the Resolution Plan provides for the following: -

- (a) An upfront payment amount of Rs. 10 Crores plus cash equivalent to cash balance in Facor Power Limited ('FPL') towards settlement of claims of the consenting Financial Creditors ('**Upfront Payment**');
- (b) An amount of Rs. 270 Crores ('**Total Consideration**') will be converted into zero coupon secured and unlisted non-convertible debentures and will be issued to the consenting Financial Creditors in proportion manner. Further, the Resolution Plan clarifies that the Total Consideration shall be first applied towards payment of interest component and then against the principal amount of the financial debt;
- (c) **Dissenting Financial Creditors** – As per the Resolution Plan, an amount equal to the amount to be paid to dissenting Financial Creditors in accordance with Section 53 of the Code in the event of liquidation of the Corporate Debtor will be converted into zero coupon secured and unlisted non-convertible debentures and will be issued to the dissenting Financial Creditors in proportional manner;

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- (d) **Operational Creditors** – Against the total verified claim of Rs. 5.84 Crores, the Resolution Plan provides that liquidation value or amount payable to Operational Creditors in terms of the Code is NIL. Accordingly, NIL payment has been proposed towards claims of Operational Creditors;
- (e) **Outstanding Government Dues and Taxes** – As per the Resolution Plan, the liquidation value payable in respect of statutory dues in terms of the Code is NIL. Accordingly, NIL payment has been proposed towards payments of statutory liabilities.
- (f) **Closing Date** – As per the Resolution Plan, it shall mean the date on which Non-Convertible Debentures are issued and assigned to the Financial Creditors and ownership of asset is transferred to the Resolution Applicant.
- (g) Resolution Plan in Annexure 4 has requested certain relief and concessions. It is clarified that disallowances of the concessions, reliefs and dispensations as sought for, shall not impact the effectiveness or implementation of the Resolution Plan.

In respect to the relief, concessions, dispensations as sought for, the same shall be governed by Rules in accordance with law.

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13. The Resolution Professional has filed Compliance Certificate in Form – H as per Regulation 39 (4) of the Insolvency and Bankruptcy Board of India (Insolvency Resolution Process for Corporate Persons) Regulations, 2016, does not contravene any of the provisions of the law for the time being in force.
14. The Resolution Applicant i.e. M/s Sterlite Power Transmission Limited has submitted an affidavit pursuant to Section 30 (1) of the Insolvency and Bankruptcy Code, 2016 confirming its eligibility under Section 29 A of the Insolvency and Bankruptcy Code, 2016.
15. It is disclosed in Form – H that the Resolution Professional has determined the transaction of the nature covered under Sections 43, 45, 50 or 66 as the case may be, of the Insolvency and Bankruptcy Code, 2016, and that appropriate application has been filed before the Adjudicating Authority, which are pending for adjudication.
16. It is evident from Form – H, under Regulation 39 (4), the Resolution Applicant shall submit performance guarantee in term of RFRF on or before 17th November, 2019. This Resolution Plan has come for approval before this Adjudicating Authority, the Resolution Applicant

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shall submit performance guarantee as contemplated under CIRP Regulations, if not already done, before implementation of the Plan.

17. In respect to Annexure – 4 of Resolution Plan, the request for certain relief and concessions, it is hereby clarified that such exemptions, reliefs, concessions shall be construed as **NOT GRANTED**.

18. Applications/Intervening Applications against approval of Resolution Plan: -

(i) CA (IB) No. 160/CTB/2019 is filed by unsuccessful Resolution Applicant. This CA (IB) No. 160/CTB/2019 is **DISMISSED**. Orders passed vide separate sheets.

(ii) IA (IB) No. 175/CTB/2019 is filed by Promoters/Directors of the Corporate Debtor. It is stated that the promoter has submitted Settlement Proposal far superior than that of approved Resolution Plan. However, the same was **REJECTED**.

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a. Further, they stated that, mandatory departure from 36 (b) Regulation. The EOI and RFRP were modified. The inclusion of profile of Facor Power Ltd., and insisting of expertise in power, as necessary qualification of Resolution Applicant is not appropriate. It is stated that no notice was issued to promoters as per Section 24 (3). The revised Resolution Plan, was passed between 11:00 P.M. to 11:30 P.M. Hence, the promoters did not have time to effectively participate. Further, there is undervaluation of the mines. Hence, seeks direction for rejection of the Resolution Plan and direction for acceptance of the Settlement Proposal under 12 A of the Insolvency and Bankruptcy Code, 2016. The Resolution Professional & Committee of Creditors has denied factually each and every allegation. There is no mention of any averments in Minutes of the Meeting. Further, it is evident from Minutes of Meeting that notice was served on promoters/Directors and they were present at the meeting, and no objections regarding time constrain were raised. Hence, it is purely an afterthought. Finally, the promoter states

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that the personal shareholding of the promoters have been wrongly included in the Resolution Plan, it can never be the asset of the Corporate Debtor. Any direction/inclusion to sell the individual shares of the promoters of Facor Power Limited is blatant violation. However, it is clarified by Resolution Professional and Committee of Creditors that it is only an "exist option" for the Directors, and not a mandatory. It is purely the wish of the promoters to either benefit from the Clause or not.

- b. In respect of the inclusion of expertise in "Power" in RFRF, the Corporate Debtor has more than 86.09 % of shareholding in Facor Power Ltd. and it is an asset of the Corporate Debtor. Hence, the Resolution Applicant ought to maximize the asset. Hence, the expertise in "power" become inevitable. The objections raised by applicant in IA No. 175/CTB/2019 are overruled. IA No. 175/CTB/2019 is **DISMISSED**. Orders passed vide separate sheet.

(iii)

CA (IB) No. 162/CTB/2019 and CA (IB) No. 176/CTB/2019 is filed by Government of India through

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Office of the Assistant Commissioner, GST & Central Excise, Balasore Division, Bhubaneswar GST Commissionerate. Both applications are **DISMISSED**. Orders passed in separate sheet.

ORDER

19. The Resolution Plan submitted by M/s Sterlite Power Transmission Limited (SPTL) i.e. Resolution Applicant, approved by 95.15 % of voting share in 31st Committee of Creditors Meeting dated 13.11.2019 is **APPROVED**, as per Section 31 (1) of the Insolvency and Bankruptcy Code, 2016. Accordingly, the same shall be binding on the Corporate Debtor and its employees, members, all creditors including Central and State Government and local authorities, guarantors and other stakeholders.

20. Accordingly, this CA (IB) No. 157/CTB/2019 is hereby **ALLOWED**.


Shri Satya Ranjan Prasad
Member (T)


Ms. Sucharitha R.
Member(J)

Signed on this, the 30th day of January, 2020

Santosh_P.S.



RESOLUTION PASSED BY THE STEERING COMMITTEE OF FERRO ALLOYS CORPORATION LIMITED ("COMPANY") [CONSTITUTED PURSUANT TO ORDER DATED JANUARY 30, 2020 OF THE HON'BLE NATIONAL COMPANY LAW TRIBUNAL, CUTTACK BENCH, AS STEERING COMMITTEE HAS BEEN CONSTITUTED FOR IMPLEMENTATION OF THE RESOLUTION PLAN OF STERLITE POWER TRANSMISSION LIMITED AND BEING IMPLEMENTED BY VEDANTA LIMITED] AT THEIR 9TH MEETING HELD BY AUDIO-VISUAL MEANS ON 21ST SEPTEMBER, 2020

2. TO APPROVE APPOINTMENT OF THE RECONSTITUTED BOARD OF DIRECTORS

"RESOLVED THAT pursuant to (i) the provisions of Section 161 (1) and other applicable provisions, if any, of the Companies Act, 2013 read with the rules made thereunder, (including any statutory modification thereto or re-enactment thereof for the time being in force) to the extent applicable, (ii) the provisions of Section 30(2)(e) and other applicable provisions, if any, of the Code read with the rules made thereunder, (including any statutory modification thereto or re-enactment thereof for the time being in force) to the extent applicable, (iii) the Memorandum and Articles of Association of the Company, and (iv) the resolution plan submitted by Sterlite Power Transmission Limited in relation to Ferro Alloys Corporation Limited ("**Company**") pursuant to a corporate insolvency resolution process under the Insolvency and Bankruptcy Code, 2016 ("**Code**") and duly approved by the committee of creditors of the Company and the Hon'ble National Company Law Tribunal, Cuttack Bench vide its order dated January 30, 2020 (the "**Resolution Plan**"), as being implemented by Vedanta Limited in accordance with the Resolution Plan, the consent of the Steering Committee constituted as per the Resolution Plan be and is hereby accorded to appoint, Akhilesh Joshi (DIN: 01920024) (being Independent Director), Pallavi Bakhru (DIN: 01526618) (being Non-Executive Director), Sauvick Mazumdar (DIN: 07558996) (being Non-Executive Director), Arun Misra (DIN: 01835605) (being Non-Executive Director) and Rahul Sharma (DIN: 06675433) (being Non-Executive Director) as additional directors of the Company, with immediate effect, to hold office up to the conclusion of the next annual general meeting of the Company.

RESOLVED FURTHER THAT the Company Secretary and CFO of the Company be and is hereby authorized to file, sign, verify, and execute all such e-forms, papers or documents as may be required and do all such acts, matters, deeds and things as may be necessary and incidental to take all necessary actions for giving effect to the above resolutions, including updating the statutory registers and filing requisite forms, returns/documents with the Ministry of Corporate Affairs in relation to appointment of the new directors and any other authority, as applicable."

**Certified True Copy
for Ferro Alloys Corporation Limited**

RITESH CHAUDHRY

Signature of Ritesh Chaudhry
Sr. GM (Legal) & Company Secretary
ACS 19966
R/o Flat no.F-107,
Stellar Jeevan Apartments,
Greater Noida (West) - 201306 (U.P.)

**Ritesh Chaudhry
Sr. GM (Legal) & Company Secretary
ACS 19966
R/o Flat no.F-107,
Stellar Jeevan Apartments,
Greater Noida (West) - 201306 (U.P.)**

FERRO ALLOYS CORPORATION LIMITED

CIN U45201OR1955PLC008400

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**Six Monthly Environmental Compliance Report
For the period from April-2021 upto September -2021**

S.No	Conditions	Compliance of Conditions
A.	Specific Conditions	
1	i Continuous monitoring facilities for all the stacks and sufficient air pollution control (equipments viz. fume extraction system, cyclones and bag filters to the gas cleaning plant (GCP), ID fan and stack of adequate height to submerged arc furnace shall be provided to control particulate matter emissions below 100 mg/Nm ³ . Bag filters shall be provided to control the dust generated from the briquetting plant. The Orissa Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Complied. The exhaust gas from the semi opened Smelting Arc Furnace generated at a temperature of over 350°C containing dust Particulates, Sulphur Dioxide; Oxides of Nitrogen, Carbon Monoxide is cleaned by Dry Gas Cleaning Plant. GCP consists of Ducts, Equalizer, Trombone Cooler, ID Fan, Bag Filters for separation of dust from the flue gas.Regular preventive maintenance of pollution control equipments are carried out. AAQMS and Stack monitoring is done by authorized 3rd Party on monthly basis. Report enclosed herewith as Annexure -A. The emission level are within prescribed standard.
2	ii At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the OPCB. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar, OPCB and CPCB once in six months.	Complied. The ambient air quality monitoring is done in four different location of the plant - Auto garage, MRP Plant, MRSS and R&C Lab. Stack monitoring of GCP and Dryer stack is done by authorized 3rd party Kalyani laboratories PVT. LTD. Data on ambient air quality and stack emission are being regularly submitted to OSPCB.
3	iii In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dry fog dust suppression system will be provided at crushing (and screening section of metal recovery plant to control fugitive emissions generated during crushing, screening etc. Dust extraction system shall be provided to control the fugitive dust from raw material handling, screening and conveying section along with product handling section, transfer and feeding points to control fugitive dust emissions to meet the OPCB norms. Internal roads shall be made black topped and asphalted. Water spraying shall also be done to prevent the dust emanation due to vehicular movement.	Complied. In order to control the fugitive emission there are bag filters attached to dryer plant. Water sprinklers are provided at storage hopper and feeding points of raw material handling system. Plant roads & approach roads have already made concreted, with the help of one water tankers of 10KL capacity are being sprinkled over the roads throughout the working shift to prevent the dust emanation due to vehicular movement.
4	iv Data on ambient air quality, stack emissions and fugitive emissions shall be uploaded on the Company's website and also regularly submitted online to the Ministry's Regional Office at Bhubaneswar, Orissa Pollution Control Board (OPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months. Data on SPM, SO ₂ and NO _x shall also be displayed prominently outside the premises at the appropriate place for the information of general public.	Authorized 3rd party monitoring report of air quality and stack emission is being submitted in monthly for the concern Orissa Pollution Control Board (OPCB).Report enclosed herewith as Annexure -B. Data on ambient air quality, stack emission and fugitive emissions will be uploaded on company's website shortly after resumption of server error in the company portal. Data on SPM, SO ₂ and NO _x are being displayed prominently outside the premises at the appropriate place for the information of general public.
5	v Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.	Complied. Secondary fugitive emissions are being controlled by bag houses at dryer & briquetting plant, water sprinklers and water tankers all other area of the plant.
6	vi Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	Complied. The water tanker of 10KLD capacity are being used as dust suppression on concrete roads through out working shift with proper housekeeping contract service to control dust emissions during loading and unloading of the raw material and finished product.
7	vii Total water requirement should not exceed 168 m ³ /day ground water as per the 'permission' accorded by the Central Ground Water Authority vide letter no. 21 4(74)/SER/CGWA/2008-1281 dated 24h October, 2008. Closed circuit cooling system shall be adopted to reduce water consumption. Effluent from Soft water plant shall be neutralized and collected in equalization-cum-settling pond and clear water recycled/reused for dust suppression, metal cooling, slag granulation, green belt development and other plant related activities within the plant premises. Cooling under blow down shall be treated and completely recycled. Wastewater from Jigging Plant shall be treated in a settling tank and reused in Jigging plant. No wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted. Domestic wastewater shall be treated in septic tanks followed by soak pit system and used for green belt development.	Complied. We have obtained NOC from Central Ground water authority (CGWA) for use of ground water in our charge chorme plant and the total water are being used within the prescribed limit of CGWA. Closed circuit cooling system are being adopted to reduce water consumption. No wastewater are being discharged outside the factory premises and 'zero' discharge are being adopted. Work in progress for installation of STP and the treated water to be used for green belt development.



**Six Monthly Environmental Compliance Report
For the period from April-2021 upto September -2021**

S.No	Conditions	Compliance of Conditions
B viii	Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.	Complied. 'Zero' effluent discharge are being strictly followed and no wastewater are being discharged outside the premises.
9 ix	Metal Recovery Plant shall be installed to recover metal in metal recovery plant (Jigging plant) through hydraulic jazing process. Discharge from metal recovery plant shall be monitored for the Chromium content and maintained within the permissible limit before recycling-and-reuse. Slag-tailings shall be dumped-in-own-premises in secured-land fill as per CPCB guidelines after recovery of the metal. Used oils/lubricants shall be sold to authorized recyclers / reproprocessors.	Complied. Metal Recovery Plant has already been installed. Discharge from metal recovery plant are being monitored for the Chromium content and maintained within the permissible limit before recycling-and-reuse. Slag-tailings are being dumped-in-own-premises in secured-land fill as per CPCB guidelines after recovery of the metal. Used oil is being disposed within 90 days to authorized vendor according to hazardous authorization 2016.
10 x	Chromate slag shall be used for road making only after passing through Toxic Chemical Leachability Potential (TCLP) test. Otherwise, Ferro chrome shall be recovered from the slag and output waste shall be disposed in secured landfill as per CPCB guidelines. All the other solid waste shall be properly disposed off in environment-friendly manner. No hazardous materials shall be spilled out and good house keeping practices shall be adopted. Hazardous waste shall be handled as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments.	Complied. The slag is been reused as a filling in the low lying areas and for the road making purpose as per the approval of OSPCB. All the other solid waste are being properly disposed off in environment-friendly manner. No hazardous materials are being spilled out and good house keeping practices has already been adopted. Hazardous waste are being handled as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments.
11 xi	Product fines, flue dust should not be dumped anywhere but reused in the process. Flue dust and briquette plant dryer dust along with chrome ore fines shall be reused for making briquettes after ensuring non-hazardous in nature. Sewage sludge from Septic tank shall be used as manure.	Complied. The flue dust is reused by Collecting in Silo through chain conveyor and made into pellets, Pellets are charged into furnace on day-to-day basis. The work is under progress for use of sewage sludge from Septic tank as manure.
12 xii	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, OPCB and CPCB.	Complied. Solid and hazardous waste is being monitored and intimation to the concern authorities before and after the disposal of waste. FORM 4 annual report is submitted to OSPCB on yearly basis. Copy enclosed herewith as Annexure -C.
13 xiii	As proposed, green belt shall be developed in at least 84 acres (33 %) out of total 205.50 acres within and around the plant premises as per the CPCB guidelines in consultation with DFO.	We have developed greenbelt in & around the plant premises. However we are going to conduct green belt survey by engaging authorized third party to assess the actual percentage of coverage.
14 xiv	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Ferro chrome units shall be strictly implemented.	Complied. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Ferro chrome units are being implemented.
15 xv	All the issues raised during the Public Hearing / Public Consultation meeting and commitments made shall be satisfactorily implemented.	It has been clarified vide Para 4.0 of the Environment Clearance dated on 04.05.2009 that no public hearing is required as per section 7(ii) of EIA notification, 2006.

B	General Condition	
1 i	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.	All the necessary measures have been taken to adhere to the stipulations made by Orissa Pollution Control (OPCB) and the State Government.
2 ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	No further modification / expansion has been carried out in the plant premises till date.
3 iii	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	The industrial waste water are properly collected through garland drain and recycle to the process. The treated wastewater is being utilized for plantation purpose.



**Six Monthly Environmental Compliance Report
For the period from April-2021 upto September -2021**

S.No	Conditions	Compliance of Conditions
4	iv The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	We have provided three nos rainwater harvesting pond in plant as well as colony area to conserve rain water and utilize in lean season.
5	v The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Noise level is being monitored internally in all major working location inside the plant premises and are within the standard.
6	vi Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Periodic Medical Examination is being conducted yearly for all employees and workmen on regular basis and records are also being maintained as per the Factories Act.
7	vii The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	We are complying with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, we have already engaged our CSR team for undertaking socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
8	viii As proposed, Rs. 10.00 Crores and Rs. 4.00 Crores shall be earmarked towards capital cost and recurring cost/annum for the environment pollution control measures shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	The company has been acquired by Vedanta Ltd. As per the order dated 30.01.2020 of National Company Law Tribunal Cuttack bench. A new board has also been constituted on dated 21.09.2020 pursuant to the order of NCLT and the provision of IBC - 2016. The new management has already proposed specific budget to be utilized for environment pollution control measures and to implement the conditions stipulated by MOEF as well as the state government.
9	ix The Regional Office of this Ministry at Bhubaneswar / CPCB / OPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Monitoring data is being sent to OPCB on monthly basis. Six monthly compliance report submitted to MOEF herewith.
10	x The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the OPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhubaneswar.	We have published and circulated the environment clearance of our plant on daily odia newspaper Samaj and Sambad dated 01.10.2009 for information of public. Copy enclose dherewith as Annexure.D.
11	xi Project authorities 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 and the date of commencing the land development work.	Complied.





Ajit Kumar Parida
 Factory Manager
 Ferro Alloya Corporation Ltd.
 D.P. Nagar, Randia
 Bhadrak-756135



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT

NABL ULR NO : TC704321000007722P 

Test Report No : 921 | 90011E2A KLPL/4/21/ENVN/01108 **Issue Date** : 10-May-2021

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

Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 30-Apr-2021 **Commenced On** : 30-Apr-2021 **Completion On** : 03-May-2021

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 2 NOS

Ref.To Sampling Procedure : QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 DT-27.04.2021				
Sulphur Dioxide	mg/Nm ³	-	16.8	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	76.5	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	27.3	IS 11255 (part 7):2005
Location & Date : GCP STACK DT-28.04.2021				
Sulphur Dioxide	mg/Nm ³	-	12.2	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	64.4	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	18.5	IS 11255 (part-7):2005

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Analysed By
 For Kalyani Laboratories Pvt. Ltd.


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

74/44, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704321000007856P
Test Report No : 951 | 91071EB0 KLPL/5/21/ENVN/01136
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT, D.P. NAGAR, RANDIA-756135, BHADRAK, ODISHA.
Date of receipt : 29-May-2021 **Commenced On** : 29-May-2021 **Completion On** : 04-Jun-2021
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 2 NOS
Ref To Sampling Procedure : QSP-07

Issue Date : 05-Jun-2021

Amendment Date : -

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 DT-26.05.2021				
Sulphur Dioxide	mg/Nm ³	-	15.1	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	74.5	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	25.2	IS 11255 (part-7) 2005
Location & Date : GCP STACK DT-27.05.2021				
Sulphur Dioxide	mg/Nm ³	-	13.9	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	66.3	KLPL/SOP/AIR 06
Nitrogen Dioxide	mg/Nm ³	--	20.6	IS 11255 (part-7) 2005

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

D. Anika
 Analysed By
 For Kalyani Laboratories Pvt. Ltd.

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





KALYANI LABORATORIES PVT. LTD.

78994, PAHAL, BIRUBAISWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704321000008051P
Test Report No : 984 | 92541F73 KLPL/6/21/ENVN/01178
Amendment No :
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 25-Jun-2021 Commenced On : 25-Jun-2021 Completion On: 26-Jun-2021
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 2 NOS
Ref.To Sampling Procedure: QSP-07

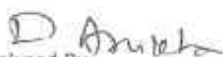
Issue Date : 15-Jul-2021
Amendment Date :

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 DT-23.06.2021				
Sulphur Dioxide	mg/Nm ³	-	14.7	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	73.8	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	24.1	IS 11255 (part-7): 2005
Location & Date : GCP STACK DT-24.06.2021				
Sulphur Dioxide	mg/Nm ³	-	12.9	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	65.1	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	19.4	IS 11255 (part-7): 2005

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.

75914, PAHALI, DHUBANESWAR, 752101, ODISHA

TEST REPORT



NABL ULR NO : TC704321000008507P
Test Report No : 1044 | 9679213B KLPL/7/21/ENVN/01212
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 31-Jul-2021 **Commenced On** : 31-Jul-2021 **Completion On** : 02-Aug-2021
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 2 NOS
Ref.To Sampling Procedure : QSP-07

Issue Date : 02-Aug-2021

Amendment Date : -

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 DT-28.07.2021				
Sulphur Dioxide	mg/Nm ³	-	17.5	IS 11255(part-2)-1985(RA 2014)
Particulate Matter	mg/Nm ³	-	76.2	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	27.5	IS 11255 (part-7) 2005
Location & Date : GCP STACK DT-29.07.2021				
Sulphur Dioxide	mg/Nm ³	-	11.2	IS 11255(part-2)-1985(RA 2014)
Particulate Matter	mg/Nm ³	-	63.3	KLPL/SOP/AIR 06
Nitrogen Dioxide	mg/Nm ³	--	17.5	IS 11255 (part-7) 2005

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

D Anupha
 Analysed By
 For Kalyani Laboratories Pvt. Ltd.

Hafiza
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

76244, PAHAL, BHUBANESWAR-751011, ODISHA

TEST REPORT



NABL ULR NO : TC704321000008802P

Test Report No : KLPL/S/21/ENVN/012748

Amendment No : -

Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 25-Aug-2021 **Commenced On** : 25-Aug-2021 **Completion On** : 04-Sep-2021

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 2 NOS

Ref.To Sampling Procedure : QSP-07

Issue Date : 04-Sep-2021

Amendment Date : -

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 DT-26.08.2021				
Sulphur Dioxide	mg/Nm ³	-	14.2	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	72.4	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	23.6	IS 11255 (part-7) 2005
Location & Date : GCP STACK DT-27.08.2021				
Sulphur Dioxide	mg/Nm ³	-	10.4	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	60.7	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	15.7	IS 11255 (part-7) 2005

Remarks : NIL

Any unusual feature observed during determination : NIL

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

D. Anujeta

Analysed By
For Kalyani Laboratories Pvt. Ltd.



[Signature]

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78014, RAJAL BHUBANESWAR-751001, ODISHA

TEST REPORT



NABL ULR NO : TC704321000009285P
Test Report No : 1095 | KLPL/9/21/ENVN/01303
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 23-Sep-2021 **Commenced On** : 23-Sep-2021 **Completion On** : 23-Sep-2021
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 2 NOS
Ref.To Sampling Procedure: QSP-07

Issue Date : 16-Oct-2021
Amendment Date : -

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 DT-20.09.2021				
Sulphur Dioxide	mg/Nm ³	-	20.5	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	78.3	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	29.5	IS 11255 (part-7) 2005
Location & Date : GCP STACK DT-21.09.2021				
Sulphur Dioxide	mg/Nm ³	-	16.5	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	66.8	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	22.1	IS 11255 (part-7) 2005

Remarks : NIL

Any unusual feature observed during determination : NIL
***** End of Test Report *****

D. Asukha
 Analysed By
 For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

78/114, PAHAL, BHUBANESWAR-751001, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704321000007720P

920 | KLPL/4/21/ENVN/01103

Issue Date : 10-May-2021

Amendment No

Amendment Date : -

Reference

W.NO-MAT/80/36/1920 DATED 05.06.2019

Customer Name

FERRO ALLOYS CORPORATION LTD.

Address

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

Date of receipt

30-Apr-2021

Commenced On : 30-Apr-2021

Completion On: 03-May-2021

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 : AUTO GARAGE DT-29-30.04.2021				
Sulphur Dioxide	µg/m ³	80	7.59	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	16.34	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	76.28	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	31.12	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.32	KLPL/SOP/AIR-19
Location & Date : FPHS & MRP PLANT DT-27-28.04.2021				
Sulphur Dioxide	µg/m ³	80	9.91	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	14.10	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	74.25	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	26.91	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.41	KLPL/SOP/AIR-19
Location & Date : MRSS & CPP DT-28-29.04.2021				
Sulphur Dioxide	µg/m ³	80	7.24	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	16.40	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	68.68	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	21.56	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.98	KLPL/SOP/AIR-19
Location & Date : R & C LAB DT-26-27.04.2021				
Sulphur Dioxide	µg/m ³	80	8.12	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	15.05	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	63.57	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	22.33	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.09	KLPL/SOP/AIR-19



KALYANI LABORATORIES PVT. LTD.

7X3H4 PAHAT, BHUBANESWAR-752061, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704321000007857P
Test Report No : 952 | 91061EB1 KLPL/5/21/ENVN/01135 **Issue Date** : 05-Jun-2021
Amendment No : - **Amendment Date** : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135, BHADRAK, ODISHA.
Date of receipt : 29-May-2021 **Commenced On** : 29-May-2021 **Completion On**: 04-Jun-2021
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 : AUTO GARAGE DT-27-28.05.2021				
Sulphur Dioxide	µg/m ³	80	8.88	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	16.45	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	69.47	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	3242	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.26	KLPL/SOP/AIR-19
Location & Date : FPHS & MRP PLANT DT-25-26.05.2021				
Sulphur Dioxide	µg/m ³	80	9.87	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	17.48	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	71.45	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	34.34	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.44	KLPL/SOP/AIR-19
Location & Date : MRSS & CPP DT-26-27.05.2021				
Sulphur Dioxide	µg/m ³	80	9.21	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	16.30	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	72.35	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	35.41	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	3.02	KLPL/SOP/AIR-19
Location & Date : R & C LAB DT-24-25.05.2021				
Sulphur Dioxide	µg/m ³	80	8.27	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	15.79	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	66.68	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	31.12	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.12	KLPL/SOP/AIR-19



KALYANI LABORATORIES PVT. LTD.

Laboratories

70041, PAFAL, BILUBANESWAR-751011, ODISHA

TEST REPORT



ULR NO : TC704321000008050P
Test Report No : 983 | 92531F72 KLPL/6/21/ENVN/01177
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 25-Jun-2021 Commenced On : 25-Jun-2021 Completion On: 28-Jun-2021
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 4 NOS
Ref To Sampling Procedure: QSP-07

Issue Date : 15-Jul-2021
Amendment Date : -

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : AUTO GARAGE DT-24-25.06.2021				
Sulphur Dioxide	µg/m ³	80	7.92	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	17.94	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	65.75	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	30.90	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.22	KLPL/SOP/AIR-19
Location & Date : FPMS & MRP PLANT DT-22-23.06.2021				
Sulphur Dioxide	µg/m ³	80	7.43	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	14.58	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	70.50	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	33.13	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.41	KLPL/SOP/AIR-19
Location & Date : MRSS & CPP DT-23-24.06.2021				
Sulphur Dioxide	µg/m ³	80	9.74	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	15.28	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	64.39	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	30.26	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.95	KLPL/SOP/AIR-19
Location & Date : R & C LAB DT-21-22.06.2021				
Sulphur Dioxide	µg/m ³	80	9.92	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	15.93	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	62.80	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	29.51	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.08	KLPL/SOP/AIR-19



KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

TRAHA, PAHAL, BHUBANESWAR-752001, ODISHA

TEST REPORT



NABL ULR NO : TC704321000008506P
Test Report No : 1043 | 9678213A KLPL/7/21/ENVN/01211
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 31-Jul-2021 Commenced On : 31-Jul-2021
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 4 NOS
Ref.To Sampling Procedure: QSP-07

Issue Date : 02-Aug-2021
Amendment Date : -

Completion On: 02-Aug-2021

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : AUTO GARAGE DT-29-30.07.2021				
Sulphur Dioxide	µg/m ³	80	8.51	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	12.81	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	56.36	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	28.18	KLPL/SOP/AIR-02
Location & Date : FPHS & MRP PLANT DT-27-28.07.2021				
Sulphur Dioxide	µg/m ³	80	7.5	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	13.34	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	57.28	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	30.84	KLPL/SOP/AIR-02
Location & Date : MRSS & CPP DT-28-29.07.2021				
Sulphur Dioxide	µg/m ³	80	9.49	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	14.24	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	51.51	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	25.75	KLPL/SOP/AIR-02
Location & Date : R & C LAB DT-216-27.07.2021				
Sulphur Dioxide	µg/m ³	80	9.92	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	15.93	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	53.82	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	26.91	KLPL/SOP/AIR-02

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

D. Anupma
 Analysed By
 For Kalyani Laboratories Pvt. Ltd.



D. Anupma
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78344, PATIAL, BHUBANESWAR-751001, ODISHA

Kalyani Laboratories

TEST REPORT



IABL ULR NO : TC704321000008802P
Test Report No : KLPL/8/21/ENVN/01274A
Amendment No : -
Reference : W.NO-MAY/80/36/1920 DATED 05.05.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,E: IADRAK, ODISHA.
Date of receipt : 25-Aug-2021 **Commenced On** : 25-Aug-2021 **Completion On** : 04-Sep-2021
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 4 NOS
Ref.To Sampling Procedure : QSP-07

Issue Date : 04-Sep-2021

Amendment Date : -

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : AUTO GARAGE DT-29-27-28.08.2021				
Sulphur Dioxide	µg/m ³	80	8.75	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	16.12	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	58.84	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	27.16	KLPL/SOP/AIR-02
Location & Date : FPHS & MRP PLANT DT-25-26.08.2021				
Sulphur Dioxide	µg/m ³	80	9.92	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	14.83	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	53.35	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	26.67	KLPL/SOP/AIR-02
Location & Date : MRSS & CPP DT-26-27.08.2021				
Sulphur Dioxide	µg/m ³	80	9.74	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	17.78	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	61.69	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	30.84	KLPL/SOP/AIR-02
Location & Date : R & C LAB DT-24-25.08.2021				
Sulphur Dioxide	µg/m ³	80	8.30	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	16.37	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	58.05	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	31.26	KLPL/SOP/AIR-02

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Analysed By
 For Kalyani Laboratories Pvt. Ltd.




 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

TK/44, FARAL, BILUBANE SWAR 752104, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704321000009283P
Test Report No : 1094 | KLPL/9/21/ENVN/01302
Amendment No :
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 23-Sep-2021 **Commenced On** : 23-Sep-2021 **Completion On**: 27-Sep-2021
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 4 NOS
Ref. To Sampling Procedure: QSP-07

Issue Date : 16-Oct-2021

Amendment Date : -

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : AUTO GARAGE DT-22-23-28.09.2021				
Sulphur Dioxide	µg/m ³	80	8.75	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	16.12	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	60.77	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	27.16	KLPL/SOP/AIR-02
Location & Date : FPHS & MRP PLANT DT-20-21.01.2021				
Sulphur Dioxide	µg/m ³	80	9.92	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	14.83	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	69.79	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	26.67	KLPL/SOP/AIR-02
Location & Date : MRSS & CPP DT-21-22.09.2021				
Sulphur Dioxide	µg/m ³	80	9.74	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	17.76	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	68.68	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	30.84	KLPL/SOP/AIR-02
Location & Date : R & C LAB DT-19-20.09.2021				
Sulphur Dioxide	µg/m ³	80	8.30	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	16.37	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	63.37	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	31.26	KLPL/SOP/AIR-02

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

Analysed By
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



2443928322103



Registered Office :

FERRO ALLOYS CORPORATION LIMITED

Charge Chrome Plant

D.P. Nagar, P.O. Randia, Pin- 756 135

Dist.- Bhadrak, Odisha, India

Phone : 06784 - 240272 / 240347 / 240320

Fax : 06784 - 240626

E-mail : facorccp@facorccp.in / facorccp@gmail.com

facorccp@dataone.in / bls_facorccp@bsnl.in

Website : www.facorgroup.in

CIN No. : L45201OR1955PLC008400



Ref. No: FACOR/HSE/CCP/25-82
Dt. 08.07.2021

To,

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

Sub: Submission of Annual Return in Form-4 under Hazardous Waste (Management & Handling) Rules, 1989 by M/s Ferro Alloys Corporation Ltd, Charge Chrome Plant, Randia, Bhadrak.

Dear Sir,

We refer to the subject cited above and enclose herewith the Annual Return regarding handling of Hazardous Waste in **Form-4**, duly filled in for the year 2020-21 by M/s Ferro Alloys Corporation Ltd., Charge Chrome Plant for your kind information and record.

Thanking you,

Yours faithfully,
For Ferro Alloys Corporation Ltd


Ajit Kumar Parida
Head (O&M)-CCP



Head Office : Ferro Alloys Corporation Ltd., Shreeram Bhawan, Tumsar 441912, Dist.- Bhandara, Maharashtra, India
Ph.: (07183) 233090/232233, Fax : 232271, E-Mail : facorho@facorgroup.in

Corp. Office : Ferro Alloys Corporation Ltd., Facor House, A-45-50, Sector-16, Noida- 201301 (U.P.)
Ph.: (0120) 4171000, Fax No.: (0120) 4256700, E-mail : facordelhi@facorgroup.in

FORM 4
[See rules 5(6) and 22 (2)]

**FORM FOR FILING ANNUAL RETURNS
BY THE OCCUPIER OR OPERATOR OF FACILITY**

[To be submitted by occupier/operator of disposal facility to State Pollution Control Board/Pollution Control Committee by 30th June of every year for the preceding period April to March]

1.	Name and address of the generator/operator of facility	:	Ferro Alloys Corporation Ltd., Charge Chrome plant, At- Randia, Dist- Bhadrak					
2.	Name of the authorised person and full address with telephone and fax number	:	Mr. Ajit Parida, Head (O&M) Charge Chrome Plant, D.P.Nagar, Randia, Bhadrak Phone: 06784-240516 Fax: 06784-240626					
3.	Description of hazardous waste	:	Physical form with description	Chemical form				
			Used Oil	Stream-5.1, Schedule-I				
			Flue gas cleaning residue	Stream-35.1, Schedule-I				
			Waste containing oil	Stream-5.2, Schedule-I				
4.	Quantity of hazardous wastes (in MTA)	:	Type of hazardous waste	Quantity (in Tonnes/KL)				
			(a) Used oil	0.00 KL				
			(b) Flue dust	1701.77MT				
			(c) Waste containing oil	0.00 MT				
5.	Description of Storage	:	(d) Empty Barrels	39 nos.				
			1. Used oil collected in drums and are being stored on concrete platform under shed. After generation of larger quantity we used to sell it to registered recycler. 2. Waste containing oil has been utilized in furnace. 3. Flue dust are being utilized as raw material in the furnace after making pallets / briquettes.					
6.	Description of Treatment	:	N.A					
7.	Details of transportation	:	NA	Name & address of	Mode of packing	Mode of transportation	Date of transportation	
8.	Details of disposal of hazardous waste	:	Name & address of	Mode of packing	Mode of transportation	Date of transportation		
			Flue dust- 1701.77MT are utilized as raw material in the furnace after making pallets/ briquettes.					
9.	Quantity of useful materials sent back to the manufacturers* and others*	:	NA	Name and type of material sent back	Quantity in Tonnes/KL			
			Manufacturers					
			Others*					

Date : 08.07.2021

Place: Bhadrak

Signature : 

Designation: Head (O&M)





CHARGE CHROME PLANT

COPY

THROUGH COURIER SERVICE

Ref. : CCP/Mech/78
Date : 03.10.2009

The Environmental Engineer-II,
State Pollution Control Board, Orissa,
Paribesh Bhawan,
A/118, Nilakantha Nagar, Unit-VIII,
BHUBANESWAR - 751 012.

Dear Sir,

Sub : Display of copy of Environmental Clearance for 30 days
for reference of Public.

Ref. : Your Memo No. 14880 dated 16.09.09.

With reference to your above Memo and general condition No. X of Environmental Clearance, we have displayed an advertisement regarding Environmental Clearance on 1st October '09 in the daily Oriya Newspaper, SAMAJ and SAMBAD for information of Public. Copy of the same are enclosed herewith for your kind information and record.

Thanking you,

Yours faithfully,
for Ferro Alloys Corporation Ltd.,
Charge Chrome Plant.


(P.G. SURESH KUMAR)
GENERAL MANAGER

Encl : As above.

Cc to : Collector & District Magistrate, Bhadrak.
General Manager, D.I.C., Bhadrak.
Regional Officer, State Pollution Control Board, Balasore.

Cc to : ~~SM (P&S)~~, SM (Maint.), MF, REC.



**Six Monthly Environmental Compliance Report
For the period from October-2020 upto March -2021**

S.No	Conditions	Compliance of Conditions
A. Specific Conditions		
1	i Continuous monitoring facilities for all the stacks and sufficient air pollution control (equipments viz. fume extraction system, cyclones and bag filters to the gas cleaning plant (GCP), ID fan and stack of adequate height to submerged arc furnace shall be provided to control particulate matter emissions below 100 mg/Nm ³ . Bag filters shall be provided to control the dust generated from the briquetting plant. The Orissa Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Complied. The exhaust gas from the semi opened Smelting Arc Furnace generated at a temperature of over 350°C containing dust Particulates, Sulphur Dioxide; Oxides of Nitrogen, Carbon Monoxide is cleaned by Dry Gas Cleaning Plant. GCP consists of Ducts, Equalizer, Trombone Cooler, ID Fan, Bag Filters for separation of dust from the flue gas. Regular preventive maintenance of pollution control equipments are carried out. AAQMS and Stack monitoring is done by authorized 3rd Party on monthly basis. Report enclosed herewith as Annexure -A. The emission level are within prescribed standard.
2	ii At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the OPCB. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar, OPCB and CPCB once in six months.	Complied. The ambient air quality monitoring is done in four different location of the plant - Auto garage, MRP Plant, MRSS and R&C Lab. Stack monitoring of GCP and Dryer stack is done by authorized 3rd party Kalyani laboratories PVT. LTD. Data on ambient air quality and stack emission are being regularly submitted to OSPCB.
3	iii In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dry fog dust suppression system will be provided at crushing (and screening section of metal recovery plant to control fugitive emissions generated during crushing, screening etc. Dust extraction system shall be provided to control the fugitive dust from raw material handling, screening and conveying section along with product handling section, transfer and feeding points to control fugitive dust emissions to meet the OPCB norms. Internal roads shall be made black topped and asphalted. Water spraying shall also be done to prevent the dust emanation due to vehicular movement.	Complied. In order to control the fugitive emission there are bag filters attached to dryer plant. Water sprinklers are provided at storage hopper and feeding points of raw material handling system. Plant roads & approach roads have already made concreted, with the help of one water tankers of 10KL capacity are being sprinkled over the roads throughout the working shift to prevent the dust emanation due to vehicular movement.
4	iv Data on ambient air quality, stack emissions and fugitive emissions shall be uploaded on the Company's website and also regularly submitted on-line to the Ministry's Regional Office at Bhubaneswar, Orissa Pollution Control Board (OPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months. Data on SPM, SO ₂ and NO _x shall also be displayed prominently outside the premises at the appropriate place for the information of general public.	Authorized 3rd party monitoring report of air quality and stack emission is been submitted in monthly for the concern Orissa Pollution Control Board (OPCB). Report enclosed herewith as Annexure -B. Data on ambient air quality, stack emission and fugitive emissions will be uploaded on company's website shortly after resumption of server error in the company portal. Data on SPM, SO ₂ and NO _x are being displayed prominently outside the premises at the appropriate place for the information of general public.
5	v Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.	Complied. Secondary fugitive emissions are being controlled by bag houses at dryer & briquetting plant, water sprinklers and water tankers all other area of the plant.
6	vi Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	Complied. The water tanker of 10KLD capacity are being used as dust suppression on concrete roads through out working shift with proper housekeeping contract service to control dust emissions during loading and unloading of the raw material and finished product.
7	vii Total water requirement should not exceed 168 m ³ /day ground water as per the 'permission' accorded by the Central Ground Water Authority vide letter no. 21 4(74)/SER/CGWA/2008-1281 dated 24h October, 2008. Closed circuit cooling system shall be adopted to reduce water consumption. Effluent from Soft water plant shall be neutralized and collected in equalization-cum-settling pond and clear water recycled/reused for dust suppression, metal cooling, slag granulation, green belt development and other plant related activities within the plant premises. Cooling under blow down shall be treated and completely recycled. Wastewater from Jigging Plant shall be treated in a settling tank and reused in Jigging plant. No wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted. Domestic wastewater shall be treated in septic tanks followed by soak pit system and used for green belt development.	Complied. We have obtained NOC from Central Ground water authority (CGWA) for use of ground water in our charge chorme plant and the total water are beign used within the prescribed limit of CGWA. Closed circuit cooling system are being adopted to reduce water consumption. No wastewater are being discharged outside the factory premises and 'zero' discharge are being adopted. Work in progress for installation of STP and the treated water to be used for green belt development.



**Six Monthly Environmental Compliance Report
For the period from October-2020 upto March -2021**

S.No	Conditions	Compliance of Conditions
8	viii Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.	Complied. 'Zero' effluent discharge are being strictly followed and no wastewater are being discharged outside the premises.
9	ix Metal Recovery Plant shall be installed to recover metal in metal recovery plant (Jigging plant) through hydraulic juzzing process. Discharge from metal recovery plant shall be monitored for the Chromium content and maintained within the permissible limit before recycling-and-reuse. Slag-tailings shall be dumped-in-own-premises in secured-land fill as per CPCB guidelines after recovery of the metal. Used oils/lubricants shall be sold to authorized recyclers / reprocessors.	Complied. Metal Recovery Plant has already been installed. Discharge from metal recovery plant are being monitored for the Chromium content and maintained within the permissible limit before recycling-and-reuse. Slag-tailings are being dumped-in-own-premises in secured-land fill as per CPCB guidelines after recovery of the metal. Used oil is being disposed within 90 days to authorized vendor according to hazardous authorization 2016.
10	x Chromate slag shall be used for road making only after passing through Toxic Chemical Leachability Potential (TCLP) test. Otherwise, Ferro chrome shall be recovered from the slag and output waste shall be disposed in secured landfill as per CPCB guidelines. All the other solid waste shall be properly disposed off in environment-friendly manner. No hazardous materials shall be spilled out and good house keeping practices shall be adopted. Hazardous waste shall be handled as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments.	Complied. The slag is been reused as a filling in the low lying areas and for the road making purpose as per the approval of OSPCB. All the other solid waste are being properly disposed off in environment-friendly manner. No hazardous materials are being spilled out and good house keeping practices has already been adopted. Hazardous waste are being handled as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments.
11	xi Product fines, flue dust should not be dumped anywhere but reused in the process. Flue dust and briquette plant dryer dust along with chrome ore fines shall be reused for making briquettes after ensuring non-hazardous in nature. Sewage sludge from Septic tank shall be used as manure.	Complied. The flue dust is reused by Collecting in Silo through chain conveyor and made into pellets, Pellets are charged into furnace on day-to-day basis. The work is under progress for use of sewage sludge from Septic tank as manure.
12	xii Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, OPCB and CPCB.	Complied. Solid and hazardous waste is being monitored and intimation to the concern authorities before and after the disposal of waste. FORM 4 annual report is submitted to OSPCB on yearly basis. Copy enclosed herewith as Annexure -C.
13	xiii As proposed, green belt shall be developed in at least 84 acres (33 %) out of total 205.50 acres within and around the plant premises as per the CPCB guidelines in consultation with DFO.	We have developed greenbelt in & around the plant premises. However we are going to conduct green belt survey by engaging authorized third party to assess the actual percentage of coverage.
14	xiv All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Ferro chrome units shall be strictly implemented.	Complied. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Ferro chrome units are being implemented.
15	xv All the issues raised during the Public Hearing / Public Consultation meeting and commitments made shall be satisfactorily implemented.	It has been clarified vide Para 4.0 of the Environment Clearance dated on 04.05.2009 that no public hearing is required as per section 7(ii) of EIA notification, 2006.

B		General Condition	
1	i	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.	All the necessary measures have been taken to adhere to the stipulations made by Orissa Pollution Control (OPCB) and the State Government.
2	ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	No further modification / expansion has been carried out in the plant premises till date.
3	iii	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	The Industrial waste water are properly collected through garland drain and recycle to the process. The treated wastewater is being utilized for plantation purpose.



**Six Monthly Environmental Compliance Report
For the period from October-2020 upto March -2021**

S.No	Conditions	Compliance of Conditions
4	iv The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	We have provided three nos rainwater harvesting pond in plant as well as colony area to conserve rain water and utilize in lean season.
5	v The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Noise level is being monitored internally in all major working location inside the plant premises and are within the standard.
6	vi Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Periodic Medical Examination is being conducted yearly for all employees and workmen on regular basis and records are also being maintained as per the Factories Act.
7	vii The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	We are complying with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, we have already engaged our CSR team for undertaking socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
8	viii As proposed, Rs. 10.00 Crores and Rs. 4.00 Crores shall be earmarked towards capital cost and recurring cost/annum for the environment pollution control measures shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	The company has been acquired by Vedanta Ltd. As per the order dated 30.01.2020 of National Company Law Tribunal Cuttack bench. A new board has also been constituted on dated 21.09.2020 pursuant to the order of NCLT and the provision of IBC - 2016. The new management has already proposed specific budget to be utilized for environment pollution control measures and to implement the conditions stipulated by MOEF as well as the state government.
9	ix The Regional Office of this Ministry at Bhubaneswar / CPCB / OPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Monitoring data is being sent to OPCB on monthly basis. Six monthly compliance report submitted to MOEF herewith.
10	x The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the OPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhubaneswar.	We have published and circulated the environment clearance of our plant on daily odia newspaper Samaj and Sambad dated 01.10.2009 for information of public. Copy enclose therewith as Annexure.D.
11	xi Project authorities 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 and the date of commencing the land development work.	Complied.




Ajit Kumar Parida
Factory Manager
Ferro Alloys Corporation Ltd.
D.P. Nagar, Randia
Bhadrak-756135

KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

78/944, PAHAL BHUBANESWAR-752101, ODISHA

TEST REPORT



ABL ULR NO : TC704320000005198P

Test Report No : 644 | 6013144E KLPL/10/20/ENVN/00788

Amendment No : -

Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 31-Oct-2020

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 2 NOS

Ref.To Sampling Procedure: QSP-07

Issue Date : 09-Nov-2020

Amendment Date : -

Commenced On : 31-Oct-2020

Completion On: 02-Nov-2020

Location & Date : DRYER STACK-4 DT-29.10.2020

Sulphur Dioxide	mg/Nm ³	-	14.3	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	72.9	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	24.1	IS 11255 (part-7):2005

Location & Date : GCP STACK DT-30.10.2020

Sulphur Dioxide	mg/Nm ³	-	10.5	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	62.7	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	17.1	IS 11255 (part-7):2005

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

Analysed By
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



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KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

78,941 PAHAL BHUBANESWAR-751001 ODISHA

TEST REPORT



NABL ULR NO : TC704320000005240P
Test Report No : 651 | 60771478 KLPL/11/20/ENVN/00815
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 13-Nov-2020 **Commenced On** : 13-Nov-2020 **Completion On** : 14-Nov-2020
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 2 NOS
Ref. To Sampling Procedure: KLPL/SOP/AIR-06

Issue Date : 18-Nov-2020

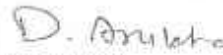
Amendment Date : -

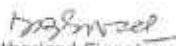
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 DT-12.11.2020				
Sulphur Dioxide	mg/Nm ³	-	16.8	IS 11255(part-2) 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	77.4	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	27.2	IS 11255 (part-7) 2005
Location & Date : GCP STACK DT-11.11.2020				
Sulphur Dioxide	mg/Nm ³	-	12.1	IS 11255(part-2) 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	66.04	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	19.5	IS 11255 (part-7) 2005

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Analysed By
 For Kalyani Laboratories Pvt. Ltd.


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



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KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

750044, PATIAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704320000005587P
Test Report No : 694 | 660015000 KLPL/12/20/ENVN/00890
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 26-Dec-2020 Commenced On : 26-Dec-2020
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 2 NOS
Ref.To Sampling Procedure: QSP-07



Issue Date : 28-Dec-2020

Amendment Date : -

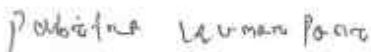
Completion On: 28-Dec-2020

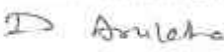
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 DT-23.12.2020				
Sulphur Dioxide	mg/Nm ³	-	15.2	IS 11255(part-2)-1985(RA 2014)
articulate Matter	mg/Nm ³	-	75.3	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	25.2	IS 11255 (part-7) 2005
Location & Date : GCP STACK DT-24.12.2020				
Sulphur Dioxide	mg/Nm ³	-	15.2	IS 11255(part-7)-1985(RA 2014)
Particulate Matter	mg/Nm ³	-	68.6	KLPL/SDYVAIR-06
Nitrogen Dioxide	mg/Nm ³	--	21.2	IS 11255 (part-7) 2005

Remarks : NIL

Any unusual feature observed during determination : NIL

..... End of Test Report


 Analysed By
 For Kalyani Laboratories Pvt. Ltd.


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

780044, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704321000005884P
Test Report No : 729 | 718816FC KLPL/1/21/ENVN/00926
Amendment No : -
Reference : W NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT , D.P. NAGAR, RANDIA-756135, BHADRAK, ODISHA.
Date of receipt : 19-Jan-2021 Commenced On : 19-Jan-2021 Completion On: 20-Jan-2021
Sample Name : **FLUE GAS | STACK MONITORING**
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 2 NOS
Ref. To Sampling Procedure: QSP-07



Issue Date : 23-Jan-2021

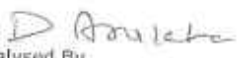
Amendment Date : -

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : GCP STACK DT-15.01.2021				
Sulphur Dioxide	mg/Nm ³	-	13.4	IS 11255(part-2): 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	65.4	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	19.4	IS 11255 (part 7): 2005
Location & Date : DRYER STACK-4 DT-16.01.2021				
Sulphur Dioxide	mg/Nm ³	-	17.1	IS 11255(part-2): 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	77.2	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	27.3	IS 11255 (part-7): 2005

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Analysed By
 For Kalyani Laboratories Pvt. Ltd.


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

78,944, PAHAL, BHUBANESWAR-751001, ODISHA

TEST REPORT



NABL ULR NO : TC704321000006404P
Test Report No : 805 | 77281904 KLPL/2/21/ENVN/00992 **Issue Date** : 27-Feb-2021
Amendment No : - **Amendment Date** : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 26-Feb-2021 **Commenced On** : 26-Feb-2021 **Completion On** : 27-Feb-2021
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 2 NOS
Ref.To Sampling Procedure : QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 DT-25.02.2021				
Sulphur Dioxide	mg/Nm ³	-	19.1	IS 11255(part-2)-1985(RA 2014)
Particulate Matter	mg/Nm ³	-	78.7	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	29.1	IS 11255 (part-7)-2005
Location & Date : GCP STACK DT-24.02.2021				
Sulphur Dioxide	mg/Nm ³	-	14.1	IS 11255(part-2)-1985(RA 2014)
Particulate Matter	mg/Nm ³	-	66.8	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	20.9	IS 11255 (part-7)-2005

Remarks : NIL

Any unusual feature observed during determination : NIL

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

D Anubha
 Analysed By
 Kalyani Laboratories Pvt. Ltd.

Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

782944, PAHALI, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704321000006894P
Test Report No : 838 | 81871AEE KLPL/3/21/ENVN/01024 **Issue Date** : 23-Mar-2021
Amendment No : - **Amendment Date** : -
Reference : W.NO-MAT/80/35/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 15-Mar-2021 **Commenced On** : 15-Mar-2021 **Completion On** : 17-Mar-2021
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 2 NOS
Ref. To Sampling Procedure : QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 DT-10.03.2021				
Sulphur Dioxide	mg/Nm ³	-	20.2	IS 11255(part-2)-1985(RA 2014)
Particulate Matter	mg/Nm ³	-	79.4	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	30.2	IS 11255 (part-7) :2005
Location & Date : GCP STACK DT-11.03.2021				
Sulphur Dioxide	mg/Nm ³	-	15.1	IS 11255(part-2)-1985(RA 2014)
Particulate Matter	mg/Nm ³	-	67.2	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	21.8	IS 11255 (part-7) :2005

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report *****

B. Gopin

Analysed By
For Kalyani Laboratories Pvt. Ltd.

Recha Layan

Authorised Signatory 23/03/2021
For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Laboratories

TEST REPORT



AL ULR NO	: TC704320000005197P	Issue Date	: 09-Nov-2020
Test Report No	: 643 6012144D KLPL/10/20/ENVN/00787	Amendment Date	: -
Amendment No	: -		
Reference	: W.NO-MAT/80/36/1920 DATED 05.06.2019		
Customer Name	: FERRO ALLOYS CORPORATION LTD.		
Address	: CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.		
Date of receipt	: 31-Oct-2020	Commenced On	: 31-Oct-2020
		Completion On	: 05-Nov-2020
Sample Name	: AMBIENT AIR QUALITY MONITORING		
Sample Condition	: GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED		
Quantity	: 4 NOS		
Ref. to Sampling Procedure:	: QSP-07		

Location & Date : **AGGL PLANT DT-29-30.10.2020**

Sulphur Dioxide	µg/m ³	80	12.46	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	21.32	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	82.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	39.14	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.22	KLPL/SOP/AIR-19

Location & Date : **FPHS & MRP PLANT DT-27-28.10.2020**

Sulphur Dioxide	µg/m ³	80	9.45	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	18.64	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	68.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	31.40	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.40	KLPL/SOP/AIR-19

Location & Date : **MRSS & CPP DT-28-29.10.2020**

Sulphur Dioxide	µg/m ³	80	10.08	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	19.40	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	76.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	34.19	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	3.10	KLPL/SOP/AIR-19

Location & Date : **R & C LAB DT-26-27.10.2020**

Sulphur Dioxide	µg/m ³	80	7.06	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	16.47	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	56.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	26.21	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.12	KLPL/SOP/AIR-19



KALYANI LABORATORIES PVT. LTD.

76041, PAHAL, BHUBANESWAR-752001, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704320000005239P
Test Report No : 650 | 60761477 KLPL/11/20/ENVN/00814 **Issue Date** : 18-Nov-2020
Amendment No : - **Amendment Date** : -
Reference : W.NO- MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 13-Nov-2020 **Commenced On** : 13-Nov-2020 **Completion On**: 16-Nov-2020
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 4 NOS
Ref. To Sampling Procedure : KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : AGGL PLANT DT-12-13.11.2020				
Sulphur Dioxide	µg/m ³	80	12.16	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	22.30	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	81.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	40.37	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.19	KLPL/SOP/AIR-19
Location & Date : FPHS & MRP PLANT DT-10-11.11.2020				
Sulphur Dioxide	µg/m ³	80	8.79	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	19.58	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	71.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	32.42	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.44	KLPL/SOP/AIR-19
Location & Date : MRSS & CPP DT-11-12.11.2020				
Sulphur Dioxide	µg/m ³	80	11.03	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	21.62	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	74.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	33.48	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	3.06	KLPL/SOP/AIR-19
Location & Date : R & C LAB DT-09-10.11.2020				
Sulphur Dioxide	µg/m ³	80	6.43	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	15.31	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	60.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	27.16	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.15	KLPL/SOP/AIR-19



KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

78001, PAHAL, BHUBANESWAR-751001, ODISHA

TEST REPORT



NABL ULR NO : TC704320000005586P
Test Report No : 693 | 65991500 KLPL/12/20/ENVN/00889
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 26-Dec-2020 Commenced On : 26-Dec-2020 Completion On: 28-Dec-2020
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-Dec-2020

Amendment Date : -

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : AUTO GARAGE DT-24-25.12.2020				
Sulphur Dioxide	µg/m ³	80	6.09	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	21.03	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	63.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	29.29	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.16	KLPL/SOP/AIR-19
Location & Date : FPHS & MRP PLANT DT-27-23.12.2020				
Sulphur Dioxide	µg/m ³	80	9.37	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	18.10	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	69.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	30.31	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.39	KLPL/SOP/AIR-19
Location & Date : MRSS & CPP DT-23-24.12.2020				
Sulphur Dioxide	µg/m ³	80	12.11	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	23.06	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	75.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	33.19	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	3.10	KLPL/SOP/AIR-19
Location & Date : R & C LAB DT-21-22.12.2020				
Sulphur Dioxide	µg/m ³	80	7.16	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	16.07	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	66.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	27.16	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.19	KLPL/SOP/AIR-19



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KALYANI LABORATORIES PVT. LTD.

78/94, PATIAL, BHUBANESWAR-751004, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704321000005883P
Test Report No : 728 | 718716FB KLPL/1/21/ENVN/00925
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA- 756135, BHADRAK, ODISHA.
Date of receipt : 19-Jan-2021 **Commenced On** : 19-Jan 2021 **Completion On**: 23-Jan-2021
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 4 NOS
Ref. To Sampling Procedure: QSP-07



Issue Date : 23-Jan-2021

Amendment Date : -

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : AUTO GARAGE DT-17-18.01.2021				
Sulphur Dioxide	µg/m ³	80	8.29	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	18.59	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	62.80	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	28.05	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.14	KLPL/SOP/AIR-19
Location & Date : FPHS & MRP PLANT DT-15-16.01.2021				
Sulphur Dioxide	µg/m ³	80	7.32	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	18.63	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	64.11	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	30.31	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.34	KLPL/SOP/AIR-19
Location & Date : MRSS & CPP DT-16-17.01.2021				
Sulphur Dioxide	µg/m ³	80	7.48	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	15.97	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	70.84	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	33.19	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	3.04	KLPL/SOP/AIR-19
Location & Date : R & C LAB DT-14-15.01.2021				
Sulphur Dioxide	µg/m ³	80	9.49	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	15.28	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	60.09	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	29.29	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.12	KLPL/SOP/AIR-19



KALYANI LABORATORIES PVT. LTD.

78/94, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704321000006402P
Test Report No : 804 | 77271902 KLPL/2/21/ENVN/00991
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 26-Feb-2021 Commenced On : 26-Feb-2021 Completion On: 27-Feb-2021
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 4 NOS
Ref.To Sampling Procedure: QSP-07

Issue Date : 27-Feb-2021

Amendment Date : -

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : AUTO GARAGE DT-25-26.02.2021				
Sulphur Dioxide	µg/m ³	80	9.09	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	15.04	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	71.74	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	31.26	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.24	KLPL/SOP/AIR-19
Location & Date : FPHS & MRP PLANT DT-23-24.02.2021				
Sulphur Dioxide	µg/m ³	80	8.64	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	14.19	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	59.84	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	28.18	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.29	KLPL/SOP/AIR-19
Location & Date : MRSS & CPP DT-24-25.02.2021				
Sulphur Dioxide	µg/m ³	80	7.78	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	12.98	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	64.39	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	27.03	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.96	KLPL/SOP/AIR-19
Location & Date : R & C LAB DT-22-23.02.2021				
Sulphur Dioxide	µg/m ³	80	8.09	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	15.38	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	50.64	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	26.91	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.03	KLPL/SOP/AIR-19



KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

78944, PATIAL, BHUBANESWAR-751061, ODISHA

TEST REPORT



NABL ULR NO : TC704321000006892P
Test Report No : 836 | 81861AEC KLPL/3/21/ENVN/01023 **Issue Date** : 23-Mar-2021
Amendment No : - **Amendment Date** : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 15-Mar-2021 **Commenced On** : 15-Mar-2021 **Completion On** : 17-Mar-2021
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 : AUTO GARAGE DT-12-13.03.2021				
Sulphur Dioxide	µg/m ³	80	7.21	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	13.95	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	60.56	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	22.92	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.18	KLPL/SOP/AIR-19
Location & Date : FPHS & MRP PLANT DT-10-11.03.2021				
Sulphur Dioxide	µg/m ³	80	8.45	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	15.53	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	70.5	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	30.12	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.37	KLPL/SOP/AIR-19
Location & Date : MRSS & CPP DT-11-12.03.2021				
Sulphur Dioxide	µg/m ³	80	8.24	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	14.86	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	75.32	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	31.40	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	3.05	KLPL/SOP/AIR-19
Location & Date : R & C LAB DT-09-10.03.2021				
Sulphur Dioxide	µg/m ³	80	8.09	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	14.39	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	65.23	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	26.79	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.11	KLPL/SOP/AIR-19





Registered Office :

FERRO ALLOYS CORPORATION LIMITED

Charge Chrome Plant

D.P. Nagar, P.O. Randia, Pin- 756 135

Dist.- Bhadrak, Odisha, India

Phone 06784 - 240272 / 240347 / 240320

Fax 06784 - 240626

E-mail facorccp@facorccp.in / facorccp@gmail.com

facorccp@dataone.in / bls_facorccp@bsnl.in

Website www.facorgroup.in

CIN No. : L45201OR1955PLC008400



Ref. No: FACOR/HSE/CCP/25-82
Dt. 08.07.2021

To,

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

Sub: Submission of Annual Return in Form-4 under Hazardous Waste (Management & Handling) Rules, 1989 by M/s Ferro Alloys Corporation Ltd, Charge Chrome Plant, Randia, Bhadrak.

Dear Sir,

We refer to the subject cited above and enclose herewith the Annual Return regarding handling of Hazardous Waste in **Form-4**, duly filled in for the year 2020-21 by M/s Ferro Alloys Corporation Ltd., Charge Chrome Plant for your kind information and record.

Thanking you,

Yours faithfully,
For Ferro Alloys Corporation Ltd


Ajit Kumar Parida
Head (O&M)-CCP



Head Office : Ferro Alloys Corporation Ltd , Shreeram Bhawan, Tumsar 441912, Dist. - Bhandara, Maharashtra, India
Ph. (07183) 233090/232233, Fax 232271, E-Mail facorho@facorgroup.in

Corp. Office : Ferro Alloys Corporation Ltd , Facor House, A-45-50, Sector-16, Noida- 201301 (U.P.)
Ph. (0120) 4171000, Fax No. (0120) 4256700, E-mail : facordelhi@facorgroup.in

FORM 4
[See rules 5(6) and 22 (2)]


**FORM FOR FILING ANNUAL RETURNS
BY THE OCCUPIER OR OPERATOR OF FACILITY**

[To be submitted by occupier/operator of disposal facility to State Pollution Control Board/Pollution Control Committee by 30th June of every year for the preceding period April to March]

1.	Name and address of the generator/operator of facility	:	Ferro Alloys Corporation Ltd., Charge Chrome plant, At- Randia, Dist- Bhadrak				
2.	Name of the authorised person and full address with telephone and fax number	:	Mr. Ajit Parida, Head (O&M) Charge Chrome Plant, D.P.Nagar, Randia, Bhadrak Phone: 06784-240516 Fax: 06784-240626				
3.	Description of hazardous waste	:	Physical form with description	Chemical form			
			Used Oil	Stream-5.1, Schedule-I			
			Flue gas cleaning residue	Stream-35.1, Schedule-I			
			Waste containing oil	Stream-5.2, Schedule-I			
4.	Quantity of hazardous wastes (in MTA)	:	Type of hazardous waste	Quantity (in Tonnes/KL)			
			(a) Used oil	0.00 KL			
			(b) Flue dust	1701.77MT			
			(c) Waste containing oil	0.00 MT			
			(d) Empty Barrels	39 nos.			
5.	Description of Storage	:	1. Used oil collected in drums and are being stored on concrete platform under shed. After generation of larger quantity we used to sell it to registered recycler. 2. Waste containing oil has been utilized in furnace. 3. Flue dust are being utilized as raw material in the furnace after making pallets / briquettes.				
6.	Description of Treatment	:	N.A				
7.	Details of transportation	:	NA	Name & address of	Mode of packing	Mode of transportation	Date of transportation
8.	Details of disposal of hazardous waste	:	Name & address of	Mode of packing	Mode of transportation	Date of transportation	
			Flue dust- 1701.77MT are utilized as raw material in the furnace after making pallets/ briquettes.				
9.	Quantity of useful materials sent back to the manufacturers* and others*	:	NA	Name and type of material sent back	Quantity in Tonnes/KL		
				Manufacturers			
				Others*			

Date : 08.07.2021

Place: Bhadrak

Signature : 
Designation: Head (O&M)



FACOR

CHARGE CHROME PLANT

Annexure - D

COPY

Ref. : CCP/Mech/78

Date : 03.10.2009

THROUGH COURIER SERVICE

The Environmental Engineer-II,
State Pollution Control Board, Orissa,
Paribesh Bhawan,
A/118, Nilakantha Nagar, Unit-VIII,
BHUBANESWAR - 751 012.

Dear Sir,


Sub : Display of copy of Environmental Clearance for 30 days
for reference of Public.

Ref. : Your Memo No. 14880 dated 16.09.09.

With reference to your above Memo and general condition No. X of Environmental Clearance, we have displayed an advertisement regarding Environmental Clearance on 1st October '09 in the daily Oriya Newspaper, SAMAJ and SAMBAD for information of Public. Copy of the same are enclosed herewith for your kind information and record.

Thanking you,

Yours faithfully,
for Ferro Alloys Corporation Ltd.,
Charge Chrome Plant.


(P.G. SURESH KUMAR)
GENERAL MANAGER

Encl : As above.

Cc to : Collector & District Magistrate, Bhadrak.
General Manager, D.I.C., Bhadrak.
Regional Officer, State Pollution Control Board, Balasore.

Cc to : ~~SM (PA&S)~~, SM (Maint.), MF, REC.



**Six Monthly Environmental Compliance Report
For the period from April-2020 upto September- 2020**

S.No	Conditions	Compliance of Conditions
A.	Specific Conditions	
1	i Continuous monitoring facilities for all the stacks and sufficient air pollution control (equipments viz. fume extraction system, cyclones and bag filters to the gas cleaning plant (GCP), ID fan and stack of adequate height to submerged arc furnace shall be provided to control particulate matter emissions below 100 mg/Nm ³ . Bag filters shall be provided to control the dust generated from the briquetting plant. The Orissa Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Complied. The exhaust gas from the semi opened Smelting Arc Furnace generated at a temperature of over 350°C containing dust Particulates, Sulphur Dioxide; Oxides of Nitrogen, Carbon Monoxide is cleaned by Dry Gas Cleaning Plant. GCP consists of Ducts, Equalizer, Trombone Cooler, ID Fan, Bag Filters for separation of dust from the flue gas. Regular preventive maintenance of pollution control equipments are carried out. AAQMS and Stack monitoring is done by authorized 3rd Party on monthly basis. Report enclosed herewith as Annexure -A. The emission level are within prescribed standard.
2	ii At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the OPCB. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar, OPCB and CPCB once in six months.	Complied. The ambient air quality monitoring is done in four different location of the plant - Auto garage, MRP Plant, MRSS and R&C Lab. Stack monitoring of GCP and Dryer stack is done by authorized 3rd party Kalyani laboratories PVT. LTD. Data on ambient air quality and stack emission are being regularly submitted to OSPCB.
3	iii In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dry fog dust suppression system will be provided at crushing (and screening section of metal recovery plant to control fugitive emissions generated during crushing, screening etc. Dust extraction system shall be provided to control the fugitive dust from raw material handling, screening and conveying section along with product handling section, transfer and feeding points to control fugitive dust emissions to meet the OPCB norms. Internal roads shall be made black topped and asphalted. Water spraying shall also be done to prevent the dust emanation due to vehicular movement.	Complied. In order to control the fugitive emission there are bag filters attached to dryer plant. Water sprinklers are provided at storage hopper and feeding points of raw material handling system. Plant roads & approach roads have already made concreted, with the help of one water tankers of 10KL capacity are being sprinkled over the roads throughout the working shift to prevent the dust emanation due to vehicular movement.
4	iv Data on ambient air quality, stack emissions and fugitive emissions shall be uploaded on the Company's website and also regularly submitted on-line to the Ministry's Regional Office at Bhubaneswar, Orissa Pollution Control Board (OPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months. Data on SPM, SO ₂ and NO _x shall also be displayed prominently outside the premises at the appropriate place for the information of general public.	Authorized 3rd party monitoring report of air quality and stack emission is been submitted in monthly for the concern Orissa Pollution Control Board (OPCB). Report enclosed herewith as Annexure -B. Data on ambient air quality, stack emission and fugitive emissions will be uploaded on company's website shortly after resumption of server error in the company portal. Data on SPM, SO ₂ and NO _x are being displayed prominently outside the premises at the appropriate place for the information of general public.
5	v Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.	Complied. Secondary fugitive emissions are being controlled by bag houses at dryer & briquetting plant, water sprinklers and water tankers all other area of the plant.
6	vi Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	Complied. The water tanker of 10KLD capacity are being used as dust suppression on concrete roads through out working shift with proper housekeeping contract service to control dust emissions during loading and unloading of the raw material and finished product.
7	vii Total water requirement should not exceed 168 m ³ /day ground water as per the 'permission' accorded by the Central Ground Water Authority vide letter no. 21 4(74)/SER/CGWA/2008-1281 dated 24h October, 2008. Closed circuit cooling system shall be adopted to reduce water consumption. Effluent from Soft water plant shall be neutralized and collected in equalization-cum-settling pond and clear water recycled/reused for dust suppression, metal cooling, slag granulation, green belt development and other plant related activities within the plant premises. Cooling under blow down shall be treated and completely recycled. Wastewater from Jigging Plant shall be treated in a settling tank and reused in Jigging plant. No wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted. Domestic wastewater shall be treated in septic tanks followed by soak pit system and used for green belt development.	Complied. We have obtained NOC from Central Ground water authority (CGWA) for use of ground water in our charge chorme plant and the total water are beign used within the prescribed limit of CGWA. Closed circuit cooling system are being adopted to reduce water consumption. No wastewater are being discharged outside the factory premises and 'zero' discharge are being adopted. Work in progress for installation of STP and the treated water to be used for green belt development.



**Six Monthly Environmental Compliance Report
For the period from April-2020 upto Septemeber- 2020**

S.No		Conditions	Compliance of Conditions
8	viii	Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.	Complied. 'Zero' effluent discharge are being strictly followed and no wastewater are being discharged outside the premises.
9	ix	Metal Recovery Plant shall be installed to recover metal in metal recovery plant (Jigging plant) through hydraulic jazing process. Discharge from metal recovery plant shall be monitored for the Chromium content and maintained within the permissible limit before recycling-and-reuse. Slag-tailings shall be dumped-in-own-premises in secured-land fill as per CPCR guidelines after recovery of the metal. Used oils/lubricants shall be sold to authorized recyclers / reprocessors.	Complied. Metal Recovery Plant has already been installed. Discharge from metal recovery plant are being monitored for the Chromium content and maintained within the permissible limit before recycling-and-reuse. Slag-tailings are being dumped-in-own-premises in secured-land fill as per CPCR guidelines after recovery of the metal. Used oil is being disposed within 90 days to authorized vendor according to hazardous authorization 2016.
10	x	Chromate slag shall be used for road making only after passing through Toxic Chemical Leachability Potential (TCLP) test. Otherwise, Ferro chrome shall be recovered from the slag and output waste shall be disposed in secured landfill as per CPCB guidelines. All the other solid waste shall be properly disposed off in environment-friendly manner. No hazardous materials shall be spilled out and good house keeping practices shall be adopted. Hazardous waste shall be handled as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments.	Complied. The slag is been reused as a filling in the low lying areas and for the road making purpose as per the approval of OSP'CB. All the other solid waste are being properly disposed off in environment-friendly manner. No hazardous materials are being spilled out and good house keeping practices has already been adopted. Hazardous waste are being handled as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments.
11	xi	Product fines, flue dust should not be dumped anywhere but reused in the process. Flue dust and briquette plant dryer dust along with chrome ore fines shall be reused for making briquettes after ensuring non-hazardous in nature. Sewage sludge from Septic tank shall be used as manure.	Complied. The flue dust is reused by Collecting in Silo through chain conveyor and made into pellets, Pellets are charged into furnace on day-to-day basis. The work is under progress for use of sewage sludge from Septic tank as manure.
12	xii	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, OPCB and CPCB.	Complied. Solid and hazardous waste is being monitored and intimation to the concern authorities before and after the disposal of waste. FORM 4 annual report is submitted to OSP'CB on yearly basis. Copy enclosed herewith as Annexure -C.
13	xiii	As proposed, green belt shall be developed in at least 84 acres (33 %) out of total 205.50 acres within and around the plant premises as per the CPCB guidelines in consultation with DFO.	We have developed greenbelt in & around the plant premises. However we are going to conduct green belt survey by engaging authorized third party to assess the actual percentage of coverage.
14	xiv	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Ferro chrome units shall be strictly implemented.	Complied. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Ferro chrome units are being implemented.
15	xv	All the issues raised during the Public Hearing / Public Consultation meeting and commitments made shall be satisfactorily implemented.	It has been clarified vide Para 4.0 of the Environment Clearance dated on 04.05.2009 that no public hearing is required as per section 7(ii) of EIA notification, 2006.

B	General Condition	
1	i	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.
2	ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
3	iii	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.



**Six Monthly Environmental Compliance Report
For the period from April-2020 upto Septemeber- 2020**

S.No	Conditions	Compliance of Conditions
4	iv The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	We have provided three nos rainwater harvesting pond in plant as well as colony area to conserve rain water and utilize in lean season.
5	v The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Noise level is being monitored internally in all major working location inside the plant premises and are within the standard.
6	vi Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Periodic Medical Examination is being conducted yearly for all employees and workmen on regular basis and records are also being maintained as per the Factories Act.
7	vii The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	We are complying with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, we have already engaged our CSR team for undertaking socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
8	viii As proposed, Rs. 10.00 Crores and Rs. 4.00 Crores shall be earmarked towards capital cost and recurring cost/annum for the environment pollution control measures shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	The company has been acquired by Vedanta Ltd. As per the order dated 30.01.2020 of National Company Law Tribunal Cuttack bench. A new board has also been constituted on dated 21.09.2020 pursuant to the order of NCLT and the provision of IBC - 2016. The new mamangement has already proposed specific budget to be utilized for environment pollution control measures and to implement the conditions stipulated by MOEF as well as the state government.
9	ix The Regional Office of this Ministry at Bhubaneswar / CPCB / OPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Monitoring data is being sent to OPCB on monthly basis. Six monthly compliance report submitted to MOEF herewith.
10	x The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the OPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhubaneswar.	We have publised and circulated the environment clearance of our plant on daily odia newspaper Samaj and Sambad dated 01.10.2009 for information of public. Copy enclose dherewith as Annexure.D.
11	xi Project authorities 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 and the date of commencing the land development work.	Complied.




Ajit Kumar Parida
Factory Manager
Ferro Alloys Corporation Ltd.
D.P. Nagar, Randia
Bhadrak-756135

KALYANI LABORATORIES PVT. LTD.

78/944, PALLAL, BILBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704320000004755P
Test Report No : 545 | 53441293 KLPL/8/20/ENVN/00690
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 03-Aug-2020 **Commenced On** : 28-Aug-2020 **Completion On**: 29-Aug-2020
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : --
Quantity : 2 NOS
Ref.To Sampling Procedure: QSP-07

Issue Date : 14-Sep-2020

Amendment Date : -

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 DT-28.08.2020				
Sulphur Dioxide	mg/Nm ³	-	11.2	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	67.0	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	20.5	IS 11255 (part-7) :2005
Location & Date : GCP STACK DT-27.08.2020				
Sulphur Dioxide	mg/Nm ³	-	10.5	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	55.2	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	14.9	IS 11255 (part-7) :2005

Remarks : nil

Any unusual feature observed during determination : NIL

End of Test Report

Analysed By
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78941, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704320000005062P
Test Report No : 610 | 577613C6 KLPL/09/20/ENVN/00755
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 24-Sep-2020 **Commenced On** : 28-Sep-2020 **Completion On**: 29-Sep-2020
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : -
Quantity : 2 NOS
Ref.To Sampling Procedure: QSP-07

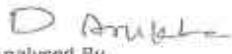
Issue Date : 29-Sep-2020
Amendment Date : -

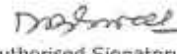
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 DT-27.09.2020				
Sulphur Dioxide	mg/Nm ³	-	12.1	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	71.2	KLPL/SCP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	21.8	IS 11255 (part-7) 2005
Location & Date : GCP STACK DT-26.09.2020				
Sulphur Dioxide	mg/Nm ³	-	11.6	IS 11255(part-2):1985(RA 2014)
Particulate Matter	mg/Nm ³	-	59.9	KLPL/SCP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	16.1	IS 11255 (part-7) 2005

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Analysed By
 For Kalyani Laboratories Pvt. Ltd.


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78394, PAHAL, BHUBANESWAR, 751001, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704320000004757P
Test Report No : 546 | 53451295 KLPL/08/20/ENVN/00691
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 28-Aug-2020 **Commenced On** : 28-Aug-2020 **Completion On** : 31-Aug-2020
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 4 NOS
Ref.To Sampling Procedure: QSP-07

Issue Date : 14-Sep-2020

Amendment Date : -

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : R & C LAB DT-24.08.2020-25.08.2020				
Sulphur Dioxide	µg/m ³	80	5.14	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	10.24	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	58.0	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	29.14	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.11	KLPL/SOP/AIR-19
Location & Date : AUTO GARAGE DT-27.08.2020-28.09.2020				
Sulphur Dioxide	µg/m ³	80	4.18	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	9.35	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	51.0	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	22.33	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.03	KLPL/SOP/AIR-19
Location & Date : MRP PLANT DT-25.08.2020-28.08.2020				
Sulphur Dioxide	µg/m ³	80	7.47	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	12.22	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	66.0	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	31.26	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.42	KLPL/SOP/AIR-19
Location & Date : NEAR POWER PLANT DT-26.08.2020-27.09.2020				
Sulphur Dioxide	µg/m ³	80	6.12	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	11.30	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	63.0	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	27.16	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.95	KLPL/SOP/AIR-19



KALYANI LABORATORIES PVT. LTD.

78544, PAHAL, BHUBANESWAR-751101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704320000005057P
Test Report No : 605 | 577513C1 KLPL/09/20/ENVN/00754
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 24-Sep-2020 Commenced On : 24-Sep-2020
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 4 NOS
Ref.To Sampling Procedure: QSP-07

Issue Date : 29-Sep-2020

Amendment Date : -

Completion On: 29-Sep-2020

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : AUTO GARAGE DT-27-28.09.2020				
Sulphur Dioxide	µg/m ³	80	5.18	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	10.14	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	57.0	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	25.32	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.10	KLPL/SOP/AIR-19
Location & Date : MRP PLANT DT-25-26.09.2020				
Sulphur Dioxide	µg/m ³	80	7.34	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	15.45	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	63.0	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	28.45	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.37	KLPL/SOP/AIR-19
Location & Date : NEAR POWER PLANT DT-26-27.09.2020				
Sulphur Dioxide	µg/m ³	80	6.26	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	14.45	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	65.0	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	30.31	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.98	KLPL/SOP/AIR-19
Location & Date : R & C LAB DT-24-25.09.2020				
Sulphur Dioxide	µg/m ³	80	6.11	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	11.10	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	60.0	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	26.09	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.15	KLPL/SOP/AIR-19



577513C1



Registered Office :

FERRO ALLOYS CORPORATION LIMITED

Charge Chrome Plant
D.P. Nagar, P.O. Randia, Pin- 756 135
Dist- Bhadrak, Odisha, India

Phone : 06784 - 240272 / 240347 / 240320

Fax : 06784 - 240626

E-mail : facorccp@facorccp.in / facorccp@gmail.com
facorccp@dataone.in / bis_facorccp@bsnl.in

Website : www.facorgroup.in

CIN No. : L45201OR1955PLC008400



REGD. POST WITH A/D.

The Member Secretary,
State Pollution Control Board, Orissa,
Paribesh Bhawan,
A/118, Nilakanthanagar, Unit - VIII,
BIUBANESWAR - 751 012.

Ref : FACOR/CCP/ENV/25-02
Date, 17.06.20

Dear Sir,

**Sub : Submission of Annual Return in Form - 4 under Hazardous Waste
(Management & Handling) Rules, 1989.**

We refer to the subject cited above and enclose herewith the Annual Return regarding handling of Hazardous Waste in **Form - 4**, duly filled in for the year 2019- 20 for your kind information and record.

Thanking you,

Yours faithfully,
for Ferro Alloys Corporation Ltd.,
Charge Chrome Plant.

Signature
(P.G. SURESH KUMAR)
CHIEF EXECUTIVE

Encl : As above. *6/17/2020*

CC : Regional Officer, S.P.C.B., Sahadevkhunta, Balasore - for kind information.
CC : AGM(OHS & ENV), MF, REC.



FORM 4

[See rules 6(5), 13(8), 16(6) and 20 (2)]

FORM FOR FILING ANNUAL RETURNS

[To be submitted to State Pollution Control Board by 30th day of June of every year for the Preceding period April to March]

1. Name and address of facility: **Ferro Alloys Corporation Ltd. Charge Chrome Plant, At-Randia, DIST. - BHADRAK**
2. Authorization No. and Date of issue: **IND - IV - HW - 288/12724, dt.16.08.2016**
3. Name of the authorized person and full address with telephone, fax number and e-mail: **R.K.PARHI, AGM(OHS & ENV), Ferro Alloys Corporation Ltd. Charge Chrome Plant, At-Randia, DIST. - BHADRAK. Mobile No - 7504990137, Fax No. 06784- 240626, E- mail - rkparhi@facorccp.in**
4. Production during the year (product wise), wherever applicable – (2019 -2020)
(Charge Chrome / High Carbon Ferro Chrome)
Total Production – 72,749.72 MT (Furnace – 68,201.67 MT, MRP - 4,548.05 MT)

Part A. To be filled by hazardous waste generators

1. Total quantity of waste generated category wise
USED OIL – 1890 Ltr. (Sch - I, Stream - 5.1)
FLUE DUST – 1633.830 MT(Sch - I, Stream - 35.1)
SLAG – 64,691.00 MT
Empty barrels (Lubricants) - 07 Nos (Sch - I, Stream - 33.1)
Empty barrels (Paints & Chemicals) - 35 Nos(Sch - I, Stream - 33.1)

2. Quantity dispatched

(i) to disposal facility

(ii) to recycler or co-processors or pre-processor

USED OIL - 1890 Ltr.

(iii) others- Nil

3. Quantity utilised in-house. if any –

FLUE DUST – 1633.830 MT(Sch - I, Stream - 35.1) - Used as raw material in the furnace after making pallets / briquettes.

SLAG – 64,691 MT - Used for low land filling in side plant premises and some quantity used for yard concreting in place of chips.



Empty barrels (Lubricants) - 47 Nos stored in impervious roofed house for plant use.

Empty barrels (Paints & Chemicals) - 70 Nos sold out.

4. Quantity in storage at the end of the year – As above.


Part B. To be filled by Treatment, storage and disposal facility operators - NA


1. Total quantity received -
2. Quantity in stock at the beginning of the year -
3. Quantity treated –
4. Quantity disposed in landfills as such and after treatment –
5. Quantity incinerated (if applicable) -
6. Quantity processed other than specified above -
7. Quantity in storage at the end of the year -

Part C. To be filled by recyclers or co-processors or other users - NA

1. Quantity of waste received during the year –
 - (i) domestic sources
 - (ii) imported (if applicable)
2. Quantity in stock at the beginning of the year -
3. Quantity recycled or co processed or used –
4. Quantity of products dispatched (wherever applicable) –
5. Quantity of waste generated -
6. Quantity of waste disposed -
7. Quantity re-exported (wherever applicable)-
8. Quantity in storage at the end of the year –

Date. 17.06.2020
Place - RANDIA


Signature of the Occupier or
Operator of the disposal facility


6/11/2020





CHARGE CHROME PLANT

COPY

Ref. : CCP/Mech/78
Date : 03.10.2009

THROUGH COURIER SERVICE

The Environmental Engineer-II,
State Pollution Control Board, Orissa,
Paribesh Bhawan,
A/118, Nilakantha Nagar, Unit-VIII,
BHUBANESWAR - 751 012.

Dear Sir,

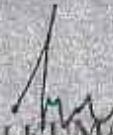
Sub : Display of copy of Environmental Clearance for 30 days
for reference of Public.

Ref. : Your Memo No. 14880 dated 16.09.09.

With reference to your above Memo and general condition No. X of Environmental Clearance, we have displayed an advertisement regarding Environmental Clearance on 1st October '09 in the daily Oriya Newspaper, SAMAJ and SAMBAD for information of Public. Copy of the same are enclosed herewith for your kind information and record.

Thanking you,

Yours faithfully,
for Ferro Alloys Corporation Ltd.,
Charge Chrome Plant.


(P.G. SURESH KUMAR)
GENERAL MANAGER

Encl : As above.

Cc to : Collector & District Magistrate, Bhadrak.
General Manager, D.I.C., Bhadrak.
Regional Officer, State Pollution Control Board, Balasore.

Cc to : ~~SM (P&S)~~, SM (Maint.), MF, REC.



**Six Monthly Environmental Compliance Report
For the period from Oct 2019 upto March 2020**

S.No	Conditions	Compliance of Conditions
A. Specific Conditions		
1	i Continuous monitoring facilities for all the stacks and sufficient air pollution control (equipments viz. fume extraction system, cyclones and bag filters to the gas cleaning plant (GCP), ID fan and stack of adequate height to submerged arc furnace shall be provided to control particulate matter emissions below 100 mg/Nm ³ . Bag filters shall be provided to control the dust generated from the briquetting plant. The Orissa Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Complied. The exhaust gas from the semi opened Smelting Arc Furnace generated at a temperature of over 350°C containing dust Particulates, Sulphur Dioxide; Oxides of Nitrogen, Carbon Monoxide is cleaned by Dry Gas Cleaning Plant. GCP consists of Ducts, Equalizer, Trombone Cooler, ID Fan, Bag Filters for separation of dust from the flue gas.Regular preventive maintenance of pollution control equipments are carried out. AAQMS and Stack monitoring is done by authorized 3rd Party on monthly basis. Report enclosed herewith as Annexure -A. The emission level are within prescribed standard.
2	ii At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the OPCB. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar, OPCB and CPCB once in six months.	Complied. The ambient air quality monitoring is done in four different location of the plant - Auto garage, MRP Plant, MRSS and R&C Lab. Stack monitoring of GCP and Dryer stack is done by authorized 3rd party Kalyani laboratories PVT. LTD. Data on ambient air quality and stack emission are being regularly submitted to OSPCB.
3	iii In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dry fog dust suppression system will be provided at crushing (and screening section of metal recovery plant to control fugitive emissions generated during crushing, screening etc. Dust extraction system shall be provided to control the fugitive dust from raw material handling, screening and conveying section along with product handling section, transfer and feeding points to control fugitive dust emissions to meet the OPCB norms. Internal roads shall be made black topped and asphalted. Water spraying shall also be done to prevent the dust emanation due to vehicular movement.	Complied. In order to control the fugitive emission there are bag filters attached to dryer plant. Water sprinklers are provided at storage hopper and feeding points of raw material handling system. Plant roads & approach roads have already made concreted, with the help of one water tankers of 10KL capacity are being sprinkled over the roads throughout the working shift to prevent the dust emanation due to vehicular movement.
4	iv Data on ambient air quality, stack emissions and fugitive emissions shall be uploaded on the Company's website and also regularly submitted on-line to the Ministry's Regional Office at Bhubaneswar, Orissa Pollution Control Board (OPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months. Data on SPM, SO ₂ and NO _x shall also be displayed prominently outside the premises at the appropriate place for the information of general public.	Authorized 3rd party monitoring report of air quality and stack emission is been submitted in monthly for the concern Orissa Pollution Control Board (OPCB).Report enclosed herewith as Annexure -B. Data on ambient air quality, stack emission and fugitive emissions will be uploaded on company's website shortly after resumption of server error in the company portal. Data on SPM, SO ₂ and NO _x are being displayed prominently outside the premises at the appropriate place for the information of general public.
5	v Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.	Complied. Secondary fugitive emissions are being controlled by bag houses at dryer & briquetting plant, water sprinklers and water tankers all other area of the plant.
6	vi Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	Complied. The water tanker of 10KLD capacity are being used as dust suppression on concrete roads through out working shift with proper housekeeping contract service to control dust emissions during loading and unloading of the raw material and finished product.
7	vii Total water requirement should not exceed 168 m ³ /day ground water as per the 'permission' accorded by the Central Ground Water Authority vide letter no. 21 4(74)/SER/CGWA/2008-1281 dated 24h October, 2008. Closed circuit cooling system shall be adopted to reduce water consumption. Effluent from Soft water plant shall be neutralized and collected in equalization-cum-settling pond and clear water recycled/reused for dust suppression, metal cooling, slag granulation, green belt development and other plant related activities within the plant premises. Cooling under blow down shall be treated and completely recycled. Wastewater from Jigging Plant shall be treated in a settling tank and reused in Jigging plant. No wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted. Domestic wastewater shall be treated in septic tanks followed by soak pit system and used for green belt development.	Complied. We have obtained NOC from Central Ground water authority (CGWA) for use of ground water in our charge chorme plant and the total water are beign used within the prescribed limit of CGWA. Closed circuit cooling system are being adopted to reduce water consumption. No wastewater are being discharged outside the factory premises and 'zero' discharge are being adopted. Work in progress for installation of STP and the treated water to be used for green belt development.



**Six Monthly Environmental Compliance Report
For the period from Oct 2019 upto March 2020**

S.No	Conditions	Compliance of Conditions
8	viii Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.	Complied. Zero' effluent discharge are being strictly followed and no wastewater are being discharged outside the premises.
9	ix Metal Recovery Plant shall be installed to recover metal in metal recovery plant (Jigging plant) through hydraulic juzzing process. Discharge from metal recovery plant shall be monitored for the Chromium content and maintained within the permissible limit before recycling-and-reuse. Slag-tailings shall be dumped-in-own-premises in secured-land fill as per CPCB guidelines after recovery of the metal. Used oils/lubricants shall be sold to authorized recyclers / reprocessors.	Complied. Metal Recovery Plant has already been installed. Discharge from metal recovery plant are being monitored for the Chromium content and maintained within the permissible limit before recycling-and-reuse. Slag-tailings are being dumped-in-own-premises in secured-land fill as per CPCB guidelines after recovery of the metal. Used oil is being disposed within 90 days to authorized vendor according to hazardous authorization 2016.
10	x Chromate slag shall be used for road making only after passing through Toxic Chemical Leachability Potential (TCLP) test. Otherwise, Ferro chrome shall be recovered from the slag and output waste shall be disposed in secured landfill as per CPCB guidelines. All the other solid waste shall be properly disposed off in environment-friendly manner. No hazardous materials shall be spilled out and good house keeping practices shall be adopted. Hazardous waste shall be handled as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments.	Complied. The slag is been reused as a filling in the low lying areas and for the road making purpose as per the approval of OSPCB. All the other solid waste are being properly disposed off in environment-friendly manner. No hazardous materials are being spilled out and good house keeping practices has already been adopted. Hazardous waste are being handled as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments.
11	xi Product fines, flue dust should not be dumped anywhere but reused in the process. Flue dust and briquette plant dryer dust along with chrome ore fines shall be reused for making briquettes after ensuring non-hazardous in nature. Sewage sludge from Septic tank shall be used as manure.	Complied. The flue dust is reused by Collecting in Silo through chain conveyor and made into pellets, Pellets are charged into furnace on day-to-day basis. The work is under progress for use of sewage sludge from Septic tank as manure.
12	xii Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, OPCB and CPCB.	Complied. Solid and hazardous waste is being monitored and intimation to the concern authorities before and after the disposal of waste. FORM 4 annual report is submitted to OSPCB on yearly basis. Copy enclosed herewith as Annexure -C.
13	xiii As proposed, green belt shall be developed in at least 84 acres (33 %) out of total 205.50 acres within and around the plant premises as per the CPCB guidelines in consultation with DFO.	We have developed greenbelt in & around the plant premises. However we are going to conduct green belt survey by engaging authorized third party to assess the actual percentage of coverage.
14	xiv All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Ferro chrome units shall be strictly implemented.	Complied. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Ferro chrome units are being implemented.
15	xv All the issues raised during the Public Hearing / Public Consultation meeting and commitments made shall be satisfactorily implemented.	It has been clarified vide Para 4.0 of the Environment Clearance dated on 04.05.2009 that no public hearing is required as per section 7(ii) of EIA notification, 2006.


B	General Condition	
1	i The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.	All the necessary measures have been taken to adhere to the stipulations made by Orissa Pollution Control (OPCB) and the State Government.
2	ii No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	No further modification / expansion has been carried out in the plant premises till date.
3	iii Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	The Industrial waste water are properly collected through garland drain and recycle to the process. The treated wastewater is being utilized for plantation purpose.



**Six Monthly Environmental Compliance Report
For the period from Oct 2019 upto March 2020**

S.No	Conditions	Compliance of Conditions
4	iv The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	We have provided three nos rainwater harvesting pond in plant as well as colony area to conserve rain water and utilize in lean season.
5	v The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Noise level is being monitored internally in all major working location inside the plant premises and are within the standard.
6	vi Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Periodic Medical Examination is being conducted yearly for all employees and workmen on regular basis and records are also being maintained as per the Factories Act.
7	vii The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	We are complying with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, we have already engaged our CSR team for undertaking socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
8	viii As proposed, Rs. 10.00 Crores and Rs. 4.00 Crores shall be earmarked towards capital cost and recurring cost/annum for the environment pollution control measures shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	The company has been acquired by Vedanta Ltd. As per the order dated 30.01.2020 of National Company Law Tribunal Cuttuck bench. A new board has also been constituted on dated 21.09.2020 pursuant to the order of NCLT and the provision of IBC - 2016. The new management has already proposed specific budget to be utilized for environment pollution control measures and to implement the conditions stipulated by MOEF as well as the state government.
9	ix The Regional Office of this Ministry at Bhubaneswar / CPCB / OPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Monitoring data is being sent to OPCB on monthly basis. Six monthly compliance report submitted to MOEF herewith.
10	x The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the OPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhubaneswar.	We have published and circulated the environment clearance of our plant on daily odia newspaper Samaj and Sambad dated 01.10.2009 for information of public. Copy enclose dherewith as Annexure.D.
11	xi Project authorities 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 and the date of commencing the land development work.	Complied.




Ajit Kumar Parida
 Factory Manager
 Ferro Alloys Corporation Ltd.
 D.P. Nagar, Randia
 Bhubrak-756135

KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000002916P
Test Report No : 310 | 3131B64 KLPL/10/19/ENVN/00380 Issue Date : 12-Nov-2019
Reference : W NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LIMITED
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135 ,BHADRAK,ODISHA
Date of receipt : 26-Oct-2019 Commenced On : 26-Oct-2019 Completion On: 28-Oct-2019
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : --
Quantity : 2 NOS
Ref.To Sampling Procedure : KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 , 23.10.2019				
Sulphur Dioxide	mg/Nm ³	-	14.3	IS 11255(part-2) 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	88.50	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	22.9	IS 11255 (part-7) 2005
Location & Date : GCP STACK , 24.10.2019				
Sulphur Dioxide	mg/Nm ³	-	11.9	IS 11255(part-2) 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	69.55	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	18.8	IS 11255 (part-7) 2005

Remarks : NIL

Any unusual feature observed during determination : NIL

..... End of Test Report


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000003182P
Test Report No : 353 | 3611C6E KLPL/11/19/ENVN/00425 Issue Date : 11-Dec-2019
Reference : W NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA
Date of receipt : 16-Nov-2019 Commenced On : 16-Nov-2019 Completion On: 19-Nov-2019
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : --
Quantity : 2 NO.
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters Unit Standard Value Results Test Method

Location & Date : DRYER STACK-4 , 13.11.2019

Sulphur Dioxide	mg/Nm ³	-	15.1	IS 11255(part-2) 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	84.7	KLPL/SOP/AIR 06
Nitrogen Dioxide	mg/Nm ³	--	23.8	IS 11255 (part-7) 2005

Location & Date : GCP STACK , 14.11.2019

Sulphur Dioxide	mg/Nm ³	-	12.9	IS 11255(part-2) 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	66.3	KLPL/SOP/AIR 06
Nitrogen Dioxide	mg/Nm ³	--	20.1	IS 11255 (part-7) 2005

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory 7/11/2019
 For Kalyani Laboratories Pvt. Ltd



KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

TEST REPORT

NABL ULR NO : TC704320000003374P
Test Report No : 370 | 3825D2E KLPL/12/19/ENVN/00461
Amendment No : -
Reference : W. NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT, D. P. NAGAR, RANDIA, 756135, BHADRAK, ODISHA.
Date of receipt : 23-Dec-2019 Commenced On : 23-Dec-2019 Completion On : 26-Dec-2019
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : -
Quantity : 2 NOS
Ref To Sampling Procedure : KLPL/SOP/AIR-06



Issue Date : 10-Jan-2020

Amendment Date : -

Location & Date	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4, 20.12.2019				
Sulphur Dioxide	mg/Nm ³	-	13.0	IS 11255(part-2) 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	80.2	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	21.0	IS 11255 (part 7) 2005
Location & Date : GCP STACK, 21.12.2019				
Sulphur Dioxide	mg/Nm ³	-	12.2	IS 11255(part 2) 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	67.6	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	18.5	IS 11255 (part 7) 2005

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

Widumbha Das
 Analysed By
 For Kalyani Laboratories Pvt. Ltd.

Neelha Das
 10/01/2020
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

STATE OFFICE: BHADRANAGAR-756135 (ODISHA)

TEST REPORT



NABL ULR NO : TC704320000003374P
Test Report No : 370 | 3825D2E KLPL/01/20/ENVN/00461
Amendment No :
Reference : W NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT , D.P. NAGAR, RANDIA-756135, BHADRAK, ODISHA.
Date of receipt : 18-Jan-2020 **Commenced On** : 18-Jan-2020
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition :
Quantity : 2 NOS
Ref To Sampling Procedure : QSP-07
Parameters :

Issue Date : 20-Jan-2020

Amendment Date : -

Completion On : 20-Jan-2020

Location & Date	Unit	Standard Value	Results	Test Method
DRYER STACK-4 , 16.01.2020				
Sulphur Dioxide	mg/Nm ³	-	14.2	IS 11255(part-2) 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	81.3	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	22.5	IS 11255 (part-7) 2005
GCP STACK , 17.01.2020				
Sulphur Dioxide	mg/Nm ³	-	11.1	IS 11255(part-2) 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	62.0	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	17.1	IS 11255 (part-7) 2005

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

Digambar Anandhu
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

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TEST REPORT



NABL ULR NO : TC704320000003888P
Test Report No : 424 | 4514F30 KLPL/3/20/ENVN/00540
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 15-Feb-2020 **Commenced On** : 15-Feb-2020 **Completion On** : 17-Feb-2020
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : --
Quantity : 2 NOS
Ref. To Sampling Procedure:

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 DT- 11/02/2020				
Sulphur Dioxide	mg/Nm ³	-	22.3	IS 11255(part-2) 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	80.4	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	13.19	IS 11255 (part-7) 2005
Location & Date : GCP STACK DT- 12/02/2020				
Sulphur Dioxide	mg/Nm ³	-	11.6	IS 11255(part-2) 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	61.1	KLPL/SOP/AIR 06
Nitrogen Dioxide	mg/Nm ³	--	17.2	IS 11255 (part-7) 2005

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

Analysed By *Dijayambara Anand*
 Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704320000004104P
Test Report No : 443 | 46631008 KLPL/3/20/ENVN/00571
Amendment No :
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 14-Mar-2020 Commenced On : 14-Mar-2020 Completion On: 16-Mar-2020
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition :
Quantity : 2 NOS
Ref. To Sampling Procedure : QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DRYER STACK-4 , 11.03.2020				
Sulphur Dioxide	mg/Nm ³	-	15.1	IS 11255(part-2) 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	84.0	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	23.3	IS 11255 (part-7) 2005
Location & Date : GCP STACK , 12.03.2020				
Sulphur Dioxide	mg/Nm ³	-	12.3	IS 11255(part-2) 1985(RA 2014)
Particulate Matter	mg/Nm ³	-	65.0	KLPL/SOP/AIR-06
Nitrogen Dioxide	mg/Nm ³	--	18.2	IS 11255 (part-7) 2005

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Analysed By : *Digambar Aoulate*
 Kalyani Laboratories Pvt. Ltd

Authorised Signatory : *Digambar Aoulate*
 For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000002899P
Test Report No : 298 | 3130853 KLPL/10/19/ENVN/00379
Reference : W NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LIMITED
Address : CHARGE CHROME PLANT, D.P. NAGAR, RANDIA-756135 BHADRAK, ODISHA
Date of receipt : 26-Oct-2019 Commenced On : 26-Oct-2019 Completion On : 28-Oct-2019
Issue Date : 09-Nov-2019
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATEDST
Quantity : 4 NOS.
Ref. To Sampling Procedure : KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : AUTO GARAGE, 24-25/10/2019				
Sulphur Dioxide	µg/m ³	80	4.07	IS 5182(PART 2) -2001
Nitrogen Dioxide	µg/m ³	80	10.39	IS 5182 (PART 6) -2006
Particulate Matter (PM10)	µg/m ³	100	51.0	IS 5182(PART-23) -2006
Particulate Matter (PM2.5)	µg/m ³	60	31.12	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.7	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Location & Date : MRP, 22-23/10/2019				
Sulphur Dioxide	µg/m ³	80	5.43	IS 5182(PART-2) -2001
Nitrogen Dioxide	µg/m ³	80	13.12	IS 5182 (PART 6) -2006
Particulate Matter (PM10)	µg/m ³	100	61.0	IS 5182(PART-23) -2006
Particulate Matter (PM2.5)	µg/m ³	60	39.48	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.35	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Location & Date : NEAR POWER PLANT, 23-24/10/2019				
Sulphur Dioxide	µg/m ³	80	6.21	IS 5182(PART 2) -2001
Nitrogen Dioxide	µg/m ³	80	11.04	IS 5182 (PART 6) -2006
Particulate Matter (PM10)	µg/m ³	100	65.0	IS 5182(PART 23) -2006
Particulate Matter (PM2.5)	µg/m ³	60	35.25	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	3.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Location & Date : R & C LAB, 21-22/10/2019				
Sulphur Dioxide	µg/m ³	80	4.25	IS 5182(PART 2) -2001
Nitrogen Dioxide	µg/m ³	80	12.11	IS 5182 (PART 6) -2006
Particulate Matter (PM10)	µg/m ³	100	58.0	IS 5182(PART 23) -2006
Particulate Matter (PM2.5)	µg/m ³	60	36.21	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.15	CPCB Guidelines of Ambient Air Pollutants Volume-I & II



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TEST REPORT



NABL ULR NO : TC704319000003181P
Test Report No : 352 | 3610C6D KLPL/11/19/ENVN/00424
Reference : W NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA
Date of receipt : 16-Nov-2019 **Commenced On** : 16-Nov-2019 **Completion On** : 19-Nov-2019
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 4 NO
Ref.To Sampling Procedure : KLPL/SOP/AIR-06

Parameters **Unit** **Standard Value** **Results** **Test Method**
Location & Date : **AUTO GARAGE , 14-15/11/2019**

Parameters	Unit	Standard Value	Results	Test Method
Sulphur Dioxide	µg/m ³	80	4.59	IS 5182(PART 2) 2001
Nitrogen Dioxide	µg/m ³	80	12.30	IS 5182 (PART 6) 2006
Particulate Matter (PM10)	µg/m ³	100	57.0	IS 5182(PART 23) 2006
Particulate Matter (PM2.5)	µg/m ³	60	38.14	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.9	CPCB Guidelines of Ambient Air Pollutants Volume I & II

Location & Date : **MRP , 12-13/11/2019**

Sulphur Dioxide	µg/m ³	80	6.29	IS 5182(PART 2) 2001
Nitrogen Dioxide	µg/m ³	80	16.06	IS 5182 (PART 6) 2006
Particulate Matter (PM10)	µg/m ³	100	66.0	IS 5182(PART 23) 2006
Particulate Matter (PM2.5)	µg/m ³	60	44.06	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.45	CPCB Guidelines of Ambient Air Pollutants Volume I & II

Location & Date : **NEAR POWER PLANT , 13-14/11/2019**

Sulphur Dioxide	µg/m ³	80	7.10	IS 5182(PART 2) 2001
Nitrogen Dioxide	µg/m ³	80	17.22	IS 5182 (PART 6) 2006
Particulate Matter (PM10)	µg/m ³	100	70.0	IS 5182(PART 23) 2006
Particulate Matter (PM2.5)	µg/m ³	60	48.26	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	3.15	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Location & Date : **R & C LAB , 11-12/11/2019**

Sulphur Dioxide	µg/m ³	80	5.08	IS 5182(PART 2) 2001
Nitrogen Dioxide	µg/m ³	80	14.13	IS 5182 (PART 6) 2006
Particulate Matter (PM10)	µg/m ³	100	62.0	IS 5182(PART 23) 2006
Particulate Matter (PM2.5)	µg/m ³	60	40.01	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.20	CPCB Guidelines of Ambient Air Pollutants Volume-I & II



TEST REPORT



NABL ULR NO : TC704320000003436P
Test Report No : 382 | 3824D6C KLPL/12/19/ENVN/00460
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA
Date of receipt : 23-Dec-2019 **Commenced On** : 23-Dec-2019 **Completion On** : 26-Dec-2019
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 4 NOS.
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Issue Date : 17-Jan-2020

Amendment Date :

Parameters : Unit Standard Value Results Test Method
Location & Date : AUTO GARAGE , 20-21/12/2019

Parameters	Unit	Standard Value	Results	Test Method
Sulphur Dioxide	µg/m ³	80	4.09	IS 5182(PART-2) 2001
Nitrogen Dioxide	µg/m ³	80	14.04	IS 5182 (PART 6) 2006
Particulate Matter (PM10)	µg/m ³	100	60.0	IS 5182(PART-23) 2006
Particulate Matter (PM2.5)	µg/m ³	60	39.14	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.05	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Location & Date : MRP , 18-19/12/2019

Parameters	Unit	Standard Value	Results	Test Method
Sulphur Dioxide	µg/m ³	80	7.42	IS 5182(PART-2) 2001
Nitrogen Dioxide	µg/m ³	80	18.21	IS 5182 (PART 6) 2006
Particulate Matter (PM10)	µg/m ³	100	69.0	IS 5182(PART-23) 2006
Particulate Matter (PM2.5)	µg/m ³	60	47.22	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.52	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Location & Date : NEAR POWER PLANT , 19-20/12/2019

Parameters	Unit	Standard Value	Results	Test Method
Sulphur Dioxide	µg/m ³	80	8.21	IS 5182(PART-2) 2001
Nitrogen Dioxide	µg/m ³	80	19.34	IS 5182 (PART 6) 2006
Particulate Matter (PM10)	µg/m ³	100	73.0	IS 5182(PART-23) 2006
Particulate Matter (PM2.5)	µg/m ³	60	48.04	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	3.20	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Location & Date : R & C LAB , 17-18/12/2019

Parameters	Unit	Standard Value	Results	Test Method
Sulphur Dioxide	µg/m ³	80	6.21	IS 5182(PART-2) 2001
Nitrogen Dioxide	µg/m ³	80	15.45	IS 5182 (PART 6) 2006
Particulate Matter (PM10)	µg/m ³	100	65.0	IS 5182(PART-23) 2006
Particulate Matter (PM2.5)	µg/m ³	60	43.49	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.35	CPCB Guidelines of Ambient Air Pollutants Volume-I & II



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TEST REPORT



NABL ULR NO : TC704320000003633P
Test Report No : 401 | KLPL/1/20/ENVN/00508
Amendment No :
Reference : W.NO-MAT/80/36/1920 DATED 05.06.20
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT , D P. NAGAR, RANDIA-756135, BHADRAK, ODISHA.
Date of receipt : 18-Jan-2020 **Commenced On** : 18 Jan 2020
Sample Name : AMBIENT AIR QUALITY MONITORING **Completion On:** 20-Jan-2020
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 4 nos
Ref. To Sampling Procedure : QSP 07

Issue Date : 20-Jan-2020

Amendment Date : -

Pr. V. Saha

Location & Date	Unit	Standard Value	Results	Test Method
AUTO GARAGE DT-16-17/01/2020				
Sulphur Dioxide	µg/m ³	80	5.31	IS 5182(PART-2) 2001
Nitrogen Dioxide	µg/m ³	80	16.05	IS 5182 (PART 6) 2006
Particulate Matter (PM10)	µg/m ³	100	64.0	IS 5182(PART-23) 2006
Particulate Matter (PM2.5)	µg/m ³	60	42.38	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.12	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Location & Date	Unit	Standard Value	Results	Test Method
MRP PLANT DT-15-16/01/2020				
Sulphur Dioxide	µg/m ³	80	8.46	IS 5182(PART-2) 2001
Nitrogen Dioxide	µg/m ³	80	20.36	IS 5182 (PART 6) 2006
Particulate Matter (PM10)	µg/m ³	100	71.0	IS 5182(PART-23) 2006
Particulate Matter (PM2.5)	µg/m ³	60	49.12	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.58	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Location & Date	Unit	Standard Value	Results	Test Method
NEAR POWER PLANT DT-14-15/01/2020				
Sulphur Dioxide	µg/m ³	80	9.03	IS 5182(PART-2) 2001
Nitrogen Dioxide	µg/m ³	80	21.36	IS 5182 (PART 6) 2006
Particulate Matter (PM10)	µg/m ³	100	73.0	IS 5182(PART-23) 2006
Particulate Matter (PM2.5)	µg/m ³	60	51.07	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	3.15	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Location & Date	Unit	Standard Value	Results	Test Method
R & C LAB DT-13-14/01/2020				
Sulphur Dioxide	µg/m ³	80	7.32	IS 5182(PART-2) 2001
Nitrogen Dioxide	µg/m ³	80	18.38	IS 5182 (PART 6) 2006
Particulate Matter (PM10)	µg/m ³	100	68.0	IS 5182(PART-23) 2006
Particulate Matter (PM2.5)	µg/m ³	60	46.03	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.28	CPCB Guidelines of Ambient Air Pollutants Volume-I & II



KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704320000003887P
Test Report No : 423 | 4513F2F KLPL/3/20/ENVN/00539
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.2019
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 17-Feb-2020 Commenced On : 17-Feb-2020 Completion On: 21-Feb-2020
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 : AUTO GARAGE DT-13-14.02.2020				
Sulphur Dioxide	µg/m ³	80	6.29	IS 5182(PART-2) :2001
Nitrogen Dioxide	µg/m ³	80	18.12	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	66.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	44.06	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs)	mg/m ³	04	1.12	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Location & Date : MRP PLANT DT-11-12.02.2020				
Sulphur Dioxide	µg/m ³	80	9.44	IS 5182(PART-2) :2001
Nitrogen Dioxide	µg/m ³	80	21.48	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	72.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	50.24	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs)	mg/m ³	04	2.52	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Location & Date : NEAR POWER PLANT DT-12-13.02.2020				
Sulphur Dioxide	µg/m ³	80	10.11	IS 5182(PART-2) :2001
Nitrogen Dioxide	µg/m ³	80	22.34	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	75.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	53.11	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs)	mg/m ³	04	3.11	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Location & Date : R & C LAB DT-10-11/02/2020				
Sulphur Dioxide	µg/m ³	80	6.18	IS 5182(PART-2) :2001
Nitrogen Dioxide	µg/m ³	80	19.43	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	69.0	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	47.42	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs)	mg/m ³	04	2.23	CPCB Guidelines of Ambient Air Pollutants Volume-I & II



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KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704320000004103P
Test Report No : 442 | 46621007 KLPL/3/20/ENVN/00570
Amendment No : -
Reference : W.NO-MAT/80/36/1920 DATED 05.06.20
Customer Name : FERRO ALLOYS CORPORATION LTD.
Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 14-Mar-2020 Commenced On : 14-Mar-2020 Completion On : 18-Mar-2020
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 : AUTO GARAGE DT-12-13/03/2020				
Sulphur Dioxide	µg/m ³	80	4.48	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	17.18	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	68.0	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	42.38	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.25	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Location & Date : MRP PLANT DT-10-11/03/2020				
Sulphur Dioxide	µg/m ³	80	8.21	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	20.15	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	73.0	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	48.04	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.67	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Location & Date : NEAR POWER PLANT DT-11-12/03/2020				
Sulphur Dioxide	µg/m ³	80	11.03	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	22.07	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	77.0	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	51.29	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	3.26	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Location & Date : R & C LAB DT-09-10/03/2020				
Sulphur Dioxide	µg/m ³	80	5.10	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	18.37	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	71.0	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	44.26	KLPL/SOP/AIR 02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	2.35	CPCB Guidelines of Ambient Air Pollutants Volume-I & II





Registered Office :

FERRO ALLOYS CORPORATION LIMITED
 Charge Chrome Plant
 D.P. Nagar, P.O. Randia, Pin- 756 135
 Dist.- Bhadrak, Odisha, India
 Phone 06784 - 240272 / 240347 / 240320
 Fax 06784 - 240626
 E-mail facorccp@facorccp.in / facorccp@gmail.com
 facorccp@dataone.in / bls_facorccp@bsnl.in
 Website www.facorgroup.in
 CIN No. : L45201OR1955PLC008400

**REGD. POST WITH A/D.**

The Member Secretary,
 State Pollution Control Board, Orissa,
 Paribesh Bhawan,
 A/118, Nilakanthanagar, Unit - VIII,
BHUBANESWAR - 751 012.

Ref : FACOR/CCP/ENV/25-02
 Date. 17.06.20

Dear Sir,

**Sub : Submission of Annual Return in Form - 4 under Hazardous Waste
 (Management & Handling) Rules, 1989.**

We refer to the subject cited above and enclose herewith the Annual Return regarding handling of Hazardous Waste in Form - 4, duly filled in for the year 2019- 20 for your kind information and record.

Thanking you,

Yours faithfully,
 for Ferro Alloys Corporation Ltd.,
 Charge Chrome Plant.

gmv
 (P.G. SURESH KUMAR)
 CHIEF EXECUTIVE

6/17/2020
 Encl As above.

CC : Regional Officer. S.P.C.B., Sahadevkhunta, Balasore -- for kind information
 CC : AGM(OHS & ENV), MF, REC.

Head Office : Ferro Alloys Corporation Ltd., Meeram Bhandara, P.O. Bhandara, Dist. Bhandara, Maharashtra, India
 Ph (07183) 233090/232233
 D.P. Nagar, Randia, Bhadrak-756135 (ODISHA)
 facorho@facorho.in



FORM 4

[See rules 6(5), 13(8), 16(6) and 20 (2)]

FORM FOR FILING ANNUAL RETURNS

[To be submitted to State Pollution Control Board by 30th day of June of every year for the Preceding period April to March]

1. Name and address of facility: **Ferro Alloys Corporation Ltd. Charge Chrome Plant, At.- Randia, DIST. - BHADRAK**
2. Authorization No and Date of issue: **IND - IV - HW - 288/12724, dt.16.08.2016.**
3. Name of the authorized person and full address with telephone, fax number and e mail: **R.K.PARHI, AGM(OHS & ENV), Ferro Alloys Corporation Ltd. Charge Chrome Plant, At.- Randia, DIST. - BHADRAK. Mobile No - 7504990137, Fax No. 06784- 240626, E- mail - rkparhi@facorccp.in**
4. Production during the year (product wise), wherever applicable – (2019 -2020)
(Charge Chrome / High Carbon Ferro Chrome)
Total Production – 72,749.72 MT (Furnace – 68,201.67 MT, MRP - 4,548.05 MT)

Part A. To be filled by hazardous waste generators

1. Total quantity of waste generated category wise

USED OIL – 1890 Ltr. (Sch - I, Stream - 5.1)

FLUE DUST – 1633.830 MT(Sch - I, Stream - 35.1)

SLAG – 64,691.00 MT

Empty barrels (Lubricants) - 07 Nos (Sch - I, Stream - 33.1)

Empty barrels (Paints & Chemicals) - 35 Nos(Sch - I, Stream - 33.1)

2. Quantity dispatched

(i) to disposal facility

(ii) to recycler or co-processors or pre-processor

USED OIL - 1890 Ltr.

(iii) others- Nil

3. Quantity utilised in-house, if any –

FLUE DUST – 1633.830 MT(Sch - I, Stream - 35.1) - Used as raw material in the furnace after making pallets / briquettes.

SLAG – 64,691 MT - Used for low land filling in side plant premises and some quantity used for yard concreting in place of chips.



Empty barrels (Lubricants) - 47 Nos stored in impervious roofed house for plant use.

Empty barrels (Paints & Chemicals) - 70 Nos sold out .

4. Quantity in storage at the end of the year – As above.

Part B. To be filled by Treatment, storage and disposal facility operators - NA

1. Total quantity received -
2. Quantity in stock at the beginning of the year -
3. Quantity treated –
4. Quantity disposed in landfills as such and after treatment –
5. Quantity incinerated (if applicable) -
6. Quantity processed other than specified above -
7. Quantity in storage at the end of the year -

Part C. To be filled by recyclers or co-processors or other users - NA

1. Quantity of waste received during the year –
 - (i) domestic sources
 - (ii) imported (if applicable)
2. Quantity in stock at the beginning of the year -
3. Quantity recycled or co-processed or used –
4. Quantity of products dispatched (wherever applicable) –
5. Quantity of waste generated -
6. Quantity of waste disposed -
7. Quantity re-exported (wherever applicable)-
8. Quantity in storage at the end of the year –

Date. 17.06.2020
Place - RANDIA

An
Signature of the Occupier or
Operator of the disposal facility

6/17/2020



FACOR

CHARGE CHROME PLANT

Annexure - D

COPY

Ref. : CCP/Mech/78

Date : 03.10.2009

THROUGH COURIER SERVICE

The Environmental Engineer-II,
State Pollution Control Board, Orissa,
Paribesh Bhawan,
A/118, Nilakantha Nagar, Unit-VIII,
BHUBANESWAR - 751 012.

Dear Sir,


Sub : Display of copy of Environmental Clearance for 30 days
for reference of Public.

Ref. : Your Memo No. 14880 dated 16.09.09.

With reference to your above Memo and general condition No. X of Environmental Clearance, we have displayed an advertisement regarding Environmental Clearance on 1st October '09 in the daily Oriya Newspaper, SAMAJ and SAMBAD for information of Public. Copy of the same are enclosed herewith for your kind information and record.

Thanking you,

Yours faithfully,
for Ferro Alloys Corporation Ltd.,
Charge Chrome Plant.


(P.G. SURESH KUMAR)
GENERAL MANAGER

Encl : As above.

Cc to : Collector & District Magistrate, Bhadrak.
General Manager, D.I.C., Bhadrak.
Regional Officer, State Pollution Control Board, Balasore.

Cc to : ~~SM (P&S)~~, SM (Maint.), MF, REC.



PUBLIC NOTICE

It is hereby informed to the General Public that M/s. Ferro Alloys Corpn. Ltd. accorded Environmental Clearance from Ministry of Environment & Forest Govt. of India for increasing production capacity of Charge Chrome Plant, Randia, Bidadrak from 65,000MT to 1,30,000MT p.a. The copy of the clearance letter is available with the State Pollution Control Board/Committee and may also be seen at website of Ministry of Environment & Forests at <http://envfor.nic.in>

S/3764

ସର୍ବସାଧାରଣ ବିଜ୍ଞପ୍ତି

ଏତଦ୍ଦ୍ୱାରା ସର୍ବସାଧାରଣଙ୍କ ଅବଗତ କରିବାକୁ ନିମନ୍ତେ ଜଣାଇ ଦିଆଯାଉଛି କି ଯେ ଯେକର, ବାଜକୋମ ପୁସ୍ତକ ରାଜିଆ, ତାହାର ବାକ୍ଷିକ ଉତ୍ପାଦନ କ୍ଷମତା ୧୫,୦୦୦ ଟଙ୍କାରୁ ୧,୩୦,୦୦୦ ଟଙ୍କାକୁ ବୃଦ୍ଧି କରିବା ପାଇଁ ଭାରତ ସରକାରଙ୍କ ଜର୍ଜାଲ ଏବଂ ପରିବେଶ ମନ୍ତ୍ରାଳୟ ଦ୍ୱାରା ସ୍ୱୀକୃତି ପ୍ରାପ୍ତ ହୋଇଛି । ଉକ୍ତ ସ୍ୱୀକୃତି ପ୍ରାପ୍ତ କରି ଓଡ଼ିଶା ସରକାରଙ୍କ ପ୍ରଦ୍ୟୁଷଣ ବିଭାଗ ଠାରେ ଉପଲବ୍ଧ । ଏହା ମଧ୍ୟ ଭାରତ ସରକାରଙ୍କ ପ୍ରଦ୍ୟୁଷଣ ଏବଂ ଜର୍ଜାଲ ବିଭାଗର Website <http://envtor.nic.in> ରେ ଦେଖାଯାଇ ପାରିବ ।