

TEST REPORT



NABL ULR NO : TC704323000015754P

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

Issue Date : 06-Feb-2023

Amendment No : -

Amendment Date : -

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

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

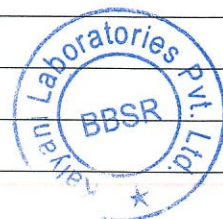
Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref.To Sampling Procedure : QSP-07

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



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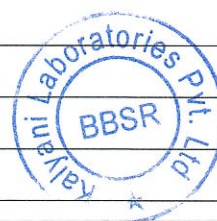
Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref.To Sampling Procedure : QSP-07

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





KALYANI LABORATORIES PVT. LTD.

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



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Test Report No

KLPL/1/23/ENVN/02118C

Issue Date : 06-Feb-2023

Amendment No

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Amendment Date

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Reference

PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name

FERRO ALLOYS CORPORATION LTD.

Address

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

Date of receipt

28-Jan-2023

Commenced On : 28-Jan-2023

Completion

06-Feb-2023

Sample Name

: AMBIENT AIR QUALITY MONITORING

Sample Condition

GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity

4 NOS

Ref.To Sampling Procedure:

QSP-07

Parameters

Unit

Standard Value

Results

Test Method

Remarks

-

Any unusual feature observed during determination

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

[Signature]

Analysed By
For Kalyani Laboratories Pvt. Ltd.

[Signature]

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

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

TEST REPORT



NABL ULR NO : TC704323000015754P

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

Issue Date : 06-Feb-2023

Amendment No : -

Amendment Date : -

Reference : PO NUMBER :4920054932,PO DATE :24 05 2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

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

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : ASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 2 NOS

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
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Location & Date : DEDUSTING SYSTEM - 23.01.2023

Sulphur Dioxide	mg/Nm ³	--	15.2	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm ³	--	20.1	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm ³	--	44.62	KLPL/SOP/AIR-06
Carbon Monoxide	%	--	0.058	KLPL/SOP/AIR-06
Velocity	m/sec	--	11.3	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	408	KLPL/SOP/AIR-06
carbon Dioxide	%	--	7.9	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm ³ / hr	--	1518.2	KLPL/SOP/AIR-06
Mercury	mg/Nm ³	--	0.014	KLPL/SOP/AIR-06

Location & Date : DRYER STACK-4 DT-24.01.2023

Sulphur Dioxide	mg/Nm ³	--	19.9	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm ³	--	29.1	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm ³	--	58.49	KLPL/SOP/AIR-06
Carbon Monoxide	%	--	0.061	KLPL/SOP/AIR-06
Velocity	m/sec	--	7.5	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	376	KLPL/SOP/AIR-06
carbon Dioxide	%	--	9.0	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm ³ / hr	--	2093	KLPL/SOP/AIR-06
Mercury	mg/Nm ³	--	0.017	KLPL/SOP/AIR-06

Remarks

Any unusual feature observed during determination

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

Analysed By
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

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

TEST REPORT



NABL ULR NO : TC704323000015754P

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

Issue Date : 06-Feb-2023

Amendment No : -

Amendment Date : -

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 28-Jan-2023 Commenced On : 28-Jan-2023

Completion On: 06-Feb-2023

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: QSP-07

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

Remarks :

Any unusual feature observed during determination :

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

Analysed By
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

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



TEST REPORT

NABL ULR NO : TC704323000015754P

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

Amendment No : -

Issue Date : 06-Feb-2023

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

Amendment Date : -

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

Date of receipt : 28-Jan-2023

Commenced On : 28-Jan-2023

Completion On: 30-Jan-2023

Sample Name : AIR QUALITY MONITORING (FUSITIVE DUST)

Sample Condition : -

Quantity : 4 NOS

Ref.To Sampling Procedure: QSP-07

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

Remarks : -

Any unusual feature observed during determination :

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

D. Dhanu

Analysed By
For Kalyani Laboratories Pvt. Ltd.

D. Dhanu

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.

