

TEST REPORT



NABL ULR NO : TC704322000015114P

Test Report No : KLPL/11/22/ENVN/01944D **Issue Date** : 06-Dec-2022

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

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

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

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref.To Sampling Procedure : QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : AUTO GARAGE DT-26-27.11.2022				
Sulphur Dioxide	µg/m ³	80	6.16	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	14.11	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	56.04	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	30.82	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.356	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 : FPHS & MRP PLANT DT-24-25.11.2022				
Sulphur Dioxide	µg/m ³	80	8.19	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	12.31	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	57.03	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	31.37	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.357	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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Address : CHARGE CHROME PLANT ,D.P. NAGAR, RANDIA-756135,BHADRAK,ODISHA.
Date of receipt : 28-Nov-2022 **Commenced On** : 28-Nov-2022 **Completion** : 02-Dec-2022
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 4 NOS
Ref.To Sampling Procedure : QSP-07

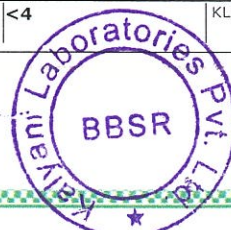
Parameters	Unit	Standard Value	Results	Test Method
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Location & Date : MRSS & CPP DT-25-26.11.2022

Sulphur Dioxide	µg/m ³	80	9.03	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	13.81	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	63.30	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	34.31	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	3.6	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-23-24.11.2022

Sulphur Dioxide	µg/m ³	80	7.03	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	11.05	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	27.85	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.350	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

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Issue Date : 06-Dec-2022

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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-Nov-2022

Commenced On : 28-Nov-2022

Completion

02-Dec-2022

Sample Name

: AMBIENT AIR QUALITY MONITORING

Sample Condition

GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity

4 NOS

Ref.To Sampling Procedure:

QSP-07

Parameters

Unit

Standard Value

Results

Test Method

Remarks

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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, MILLENNIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT



NABL ULR NO : TC704322000015114P

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

Amendment No : - Amendment Date : -

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

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

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : ASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 2 NOS

Ref.To Sampling Procedure: QSP-07

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

Remarks

Any unusual feature observed during determination

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

Analysed By
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

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

TEST REPORT



NABL ULR NO : TC704322000015114P

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

Issue Date : 06-DEC-2022

Amendment No : -

Amendment Date : -

Reference : PO NUMBER : 4920054932, PO DATE : 24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

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

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : GCP STACK DT-28.11.2022				
Sulphur Dioxide	mg/Nm ³	--	24.6	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NO _x	mg/Nm ³	--	30.2	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm ³	--	61.35	KLPL/SOP/AIR-06
Carbon Monoxide (CO)	%	--	0.070	KLPL/SOP/AIR-06
Velocity	m/sec	--	7.4	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	338	KLPL/SOP/AIR-06
carbon Dioxide	%	--	8.2	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm ³ / hr	--	1129	KLPL/SOP/AIR-06
Mercury	mg/Nm ³	--	0.018	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.

