

## TEST REPORT



**NABL ULR NO** : TC704322000014450P

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

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

**Amendment No** : -

**Amendment Date** : -

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

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

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

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

**Completion** : 28-Oct-2022

**Sample Name** : AMBIENT AIR QUALITY MONITORING

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

**Quantity** : 4 NOS

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

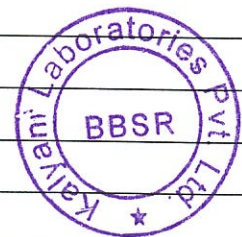
Parameters	Unit	Standard Value	Results	Test Method
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**Location & Date** : AUTO GARAGE DT-22-23.10.2022

Sulphur Dioxide	µg/m <sup>3</sup>	80	7.58	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	11.59	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	57.53	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	30.98	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.357	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	2.2	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10

**Location & Date** : FPHS & MRP PLANT DT-20-21.10.2022

Sulphur Dioxide	µg/m <sup>3</sup>	80	8.03	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	13.81	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	59.08	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	29.54	KLPL/SOP/AIR-02
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.359	KLPL/SOP/AIR-19
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	4.4	KLPL/SOP/AIR-19
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10
Ammonia (NH3)	µg/m <sup>3</sup>	400	<10	KLPL/SOP/AIR-05
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1	KLPL/SOP/AIR-07
Benza (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<1	KLPL/SOP/AIR-07
Arsenic (As)	ng/m <sup>3</sup>	06	<1	KLPL/SOP/AIR-10
Nickel (Ni)	ng/m <sup>3</sup>	20	<4	KLPL/SOP/AIR-10





# KALYANI LABORATORIES PVT. LTD.

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

## TEST REPORT



**NABL ULR NO** : TC704322000014450P

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

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

**Amendment No** : -

**Amendment Date** : -

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

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

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

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

**Completion** : 28-Oct-2022

**Sample Name** : AMBIENT AIR QUALITY MONITORING

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

**Quantity** : 4 NOS

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

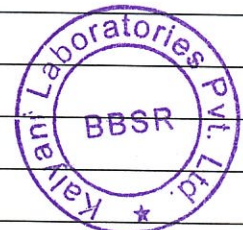
Parameters	Unit	Standard Value	Results	Test Method
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**Location & Date** : MRSS & CPP DT-21-22.10.2022

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

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

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



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# KALYANI LABORATORIES PVT. LTD.

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

## TEST REPORT

NABL ULR NO : TC704322000014450P



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

Issue Date : 04-Nov-2022

Amendment No : -

Amendment Date : -

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

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

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
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Remarks : -

Any unusual feature observed during determination

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

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

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





# KALYANI LABORATORIES PVT. LTD.

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

## TEST REPORT



NABL ULR NO : TC704322000014463P

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

Issue Date : 04-Nov-2022

Amendment No : -

Amendment Date : -

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

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

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
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Location & Date : DEDUSTING SYSTEM - 21.10.2022

Sulphur Dioxide	mg/Nm <sup>3</sup>	-	20.5	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	-	28.4	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	-	60.67	KLPL/SOP/AIR-06
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.07	KLPL/SOP/AIR-06
Velocity	m/sec	-	9.3	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	336	KLPL/SOP/AIR-06
carbon Dioxide	%	--	8.8	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	-	1654	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.017	KLPL/SOP/AIR-06

Location & Date : DG STACK DT-20.10.2022

Sulphur Dioxide	mg/Nm <sup>3</sup>	-	10.2	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	-	15.2	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	-	49.29	KLPL/SOP/AIR-06
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.061	KLPL/SOP/AIR-06
Velocity	m/sec	-	6.5	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	--	328	KLPL/SOP/AIR-06
carbon Dioxide	%	--	7.8	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm <sup>3</sup> / hr	-	1330	KLPL/SOP/AIR-06
Mercury	mg/Nm <sup>3</sup>	--	0.015	KLPL/SOP/AIR-06

Location & Date : DRYER STACK-4 DT-22.10.2022

Sulphur Dioxide	mg/Nm <sup>3</sup>	-	25.4	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	-	34.2	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	-	67.83	KLPL/SOP/AIR-06
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.064	KLPL/SOP/AIR-06
Velocity	m/sec	-	10.29	KLPL/SOP/AIR-06



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# KALYANI LABORATORIES PVT. LTD.

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

## TEST REPORT



NABL ULR NO : TC704322000014463P

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

Amendment No : - Amendment Date : -

Reference : PO NUMBER :4920054932,PO DATE :24.05.2022

Customer Name : FERRO ALLOYS CORPORATION LTD.

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

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

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 4 NOS

Ref.To Sampling Procedure: QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Stack Temperature in Deg kelvin	--	-	348	KLPL/SOP/AIR-06
carbon Dioxide	%	-	8.2	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm3 / hr	-	1819	KLPL/SOP/AIR-06
Mercury	mg/Nm3	-	0.018	KLPL/SOP/AIR-06

Location & Date : GCP STACK DT-23.10.2022

Sulphur Dioxide	mg/Nm <sup>3</sup>	-	27.6	IS 11255(part-2):1985(RA 2014)
Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	-	33.6	KLPL/SOP/AIR-06
Particulate Matter	mg/Nm <sup>3</sup>	-	73.82	KLPL/SOP/AIR-06
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	-	0.075	KLPL/SOP/AIR-06
Velocity	m/sec	-	9.0	KLPL/SOP/AIR-06
Stack Temperature in Deg kelvin	--	-	398	KLPL/SOP/AIR-06
carbon Dioxide	%	-	9.1	KLPL/SOP/AIR-06
Quantity of Gas Flow	Nm3 / hr	-	1226	KLPL/SOP/AIR-06
Mercury	mg/Nm3	-	0.020	KLPL/SOP/AIR 06

Remarks : -

Any unusual feature observed during determination

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

*D. Asupala*

Analysed By  
For Kalyani Laboratories Pvt. Ltd.

*[Signature]*

Authorised Signatory  
For Kalyani Laboratories Pvt. Ltd.



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