

TEST REPORT



NABL ULR NO : TC1206323000018757

Test Report No : KLPL/11/23/ENVN/02610 **Issue Date** : 24-Nov-2023

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

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

Customer Name : **POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.**

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

Date of receipt : 22-Nov-2023 **Commenced On** : 22-Nov-2023 **Completion On** : 23-Nov-2023

Sample Name : **AMBIENT AIR QUALITY MONITORING**

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)

Ref.To Sampling Procedure: KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
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Location & Date : **ADMIN BUILDING, DATE-21.11.2023**

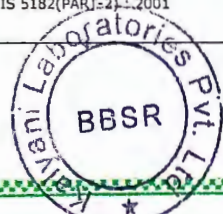
Sulphur Dioxide	µg/m ³	80	9.67	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	16.41	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	58.48	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	28.57	KLPL/SOP/AIR-02,Issue No.01:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.68	KLPL/SOP/AIR-19:2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	4.7	KLPL/SOP/AIR-19:2019
Lead (Pb)	µg/m ³	1.0	<0.02	KLPL/SOP/AIR-10,Issue No.01:2017
Ammonia (NH3)	µg/m ³	400	<4.0	KLPL/SOP/AIR-05,Issue No.01: 2017
Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	KLPL/SOP/AIR-07,Issue No.01: 2019
Arsenic (As)	ng/m ³	06	<1.0	KLPL/SOP/AIR-10,Issue No.01: 2017
Nickel (Ni)	ng/m ³	20	<4.0	KLPL/SOP/AIR-10,Issue No.01:2017

Location & Date : **NEAR MAIN GATE, DATE-21.11.2023**

Sulphur Dioxide	µg/m ³	80	7.28	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	15.62	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	70.56	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	34.09	KLPL/SOP/AIR-02,Issue No.01:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.72	KLPL/SOP/AIR-19:2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.3	KLPL/SOP/AIR-19:2019
Lead (Pb)	µg/m ³	1.0	<0.02	KLPL/SOP/AIR-10,Issue No.01:2017
Ammonia (NH3)	µg/m ³	400	<4.0	KLPL/SOP/AIR-05,Issue No.01: 2017
Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	KLPL/SOP/AIR-07,Issue No.01: 2019
Arsenic (As)	ng/m ³	06	<1.0	KLPL/SOP/AIR-10,Issue No.01: 2017
Nickel (Ni)	ng/m ³	20	<4.0	KLPL/SOP/AIR-10,Issue No.01:2017

Location & Date : **NEAR WAGON GATE, DATE-21.11.2023**

Sulphur Dioxide	µg/m ³	80	8.94	IS 5182(PART-2) :2001
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KALYANI LABORATORIES PVT. LTD.

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



TEST REPORT



NABL ULR NO : TC1206323000018757

Test Report No : KLPL/11/23/ENVN/02610

Issue Date : 24-Nov-2023

Amendment No : -

Amendment Date : -

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

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

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

Date of receipt : 22-Nov-2023 Commenced On : 22-Nov-2023 Completion On : 23-Nov-2023

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)

Ref.To Sampling Procedure : KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Nitrogen Dioxide	µg/m ³	80	17.87	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	77.19	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	34.96	KLPL/SOP/AIR-02,Issue No.01:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.79	KLPL/SOP/AIR-19:2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.9	KLPL/SOP/AIR-19:2019
Lead (Pb)	µg/m ³	1.0	<0.02	KLPL/SOP/AIR-10,Issue No.01:2017
Ammonia (NH3)	µg/m ³	400	<4.0	KLPL/SOP/AIR-05,Issue No.01:2017
Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	KLPL/SOP/AIR-07,Issue No.01:2019
Arsenic (As)	ng/m ³	06	<1.0	KLPL/SOP/AIR-10,Issue No.01:2017
Nickel (Ni)	ng/m ³	20	<4.0	KLPL/SOP/AIR-10,Issue No.01:2017

Remarks : -

Any unusual feature observed during determination : NIL
Requirement is as per standard specification NAAQS:2009
The results relate only to samples tested and test parameters

Analysed By

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

PI.OT NO-7R/944, MILLENIUM CITY PAHAL, Bhubaneswar-752101, ODISHA



TEST REPORT

NABL ULR NO : TC1206323000018757



TC-12063

Test Report No : KLPL/11/23/ENVN/02610A

Issue Date : 24-Nov-2023

Amendment No : -

Amendment Date : -

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

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

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

Date of receipt : 22-Nov-2023 Commenced On : 22-Nov-2023 Completion On: 23-Nov-2023

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)

Ref.To Sampling Procedure : KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : STACK ATTACHED TO ESP BOILER, DATE-21.11.2023				
Particulate Matter	mg/Nm ³	--	31.89	IS 11255(Part-1):1985,RA:2019
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	--	<0.1	KLPL/SOP/AIR-20:2019
Carbon Dioxide (CO ₂)	%	--	7.6	KLPL/SOP/AIR-20:2019
Oxides of Nitrogen	mg/Nm ³	--	86.3	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg kelvin	--	395	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	7.7	IS 11255(Part-1):1985,RA:2019
Quantity of Gas Flow	Nm ³ / hr	--	261634	IS 11255(Part-1):1985,RA:2019
Mercury (as Hg)	mg/Nm ³	--	0.012	KLPL/SOP/STACK-HM-21: 2023
Sulphur Dioxide as SO ₂	mg/Nm ³	--	126.34	IS 11255(part-2):1985,RA:2019

Remarks : -

Any unusual feature observed during determination :NIL
The results relate only to samples tested and test parameters

Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

TEST REPORT



NABL ULR NO : TC1206323000018324

Issue Date : 24-Nov-2023

Test Report No : KLPL/11/23/ENVN/02610B

Amendment Date : -

Amendment No : -

Reference : PO NUMBER : FPPL/3100006601, DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

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

Date of receipt : 22-Nov-2023 **Commenced On** : 22-Nov-2023 **Completion On**: 23-Nov-2023

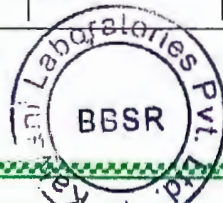
Sample Name : NOISE

Sample Condition : --

Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)

Ref.To Sampling Procedure : KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : DG SET-, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	64.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	54.0	IS 9989:1981 (RA 2014):2014
Location & Date : ADMIN BUILDING, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	63.1	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	54.2	IS 9989:1981 (RA 2014):2014
Location & Date : BOILER-1, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	69.5	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	60.4	IS 9989:1981 (RA 2014):2014
Location & Date : BOILER-2, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	71.1	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	64.2	IS 9989:1981 (RA 2014):2014
Location & Date : BOILER-3, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	73.5	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	65.9	IS 9989:1981 (RA 2014):2014
Location & Date : COMPRESSOR HOUSE, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	68.9	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	60.7	IS 9989:1981 (RA 2014):2014
Location & Date : DG SET, DATE-11.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	66.9	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	55.7	IS 9989:1981 (RA 2014):2014
Location & Date : DM PLANT, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	64.1	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	55.5	IS 9989:1981 (RA 2014):2014
Location & Date : ESP TD FAN, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	65.6	IS 9989:1981 (RA 2014):2014



TEST REPORT



NABL ULR NO : TC1206323000018324

Test Report No : KLPL/11/23/ENVN/02610B **Issue Date** : 24-Nov-2023

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

Reference : PO NUMBER :FPPL/3100006601,DATE-8.11.2022

Customer Name : **POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.**

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

Date of receipt : 22-Nov-2023 **Commenced On** : 22-Nov-2023 **Completion On**: 23-Nov-2023

Sample Name : **NOISE**

Sample Condition : --

Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)

Ref.To Sampling Procedure : KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : ESP TD FAN-2, DATE-21.11.2023				
Noise Level Indl. Area (Night)	dB(A)	70	54.8	IS 9989:1981 (RA 2014):2014
Location & Date : ESP TD FAN-2, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	66.7	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	59.9	IS 9989:1981 (RA 2014):2014
Location & Date : ETP, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	55.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	44.9	IS 9989:1981 (RA 2014):2014
Location & Date : MAIN GATE, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	58.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	47.5	IS 9989:1981 (RA 2014):2014
Location & Date : PRMATRY CRUSHER, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	71.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	62.5	IS 9989:1981 (RA 2014):2014
Location & Date : SECONDRY CRUSHER, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	71.4	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	67.1	IS 9989:1981 (RA 2014):2014
Location & Date : STG CONDENSER, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	71.8	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	65.1	IS 9989:1981 (RA 2014):2014
Location & Date : WAGON TIPLER, DATE-21.11.2023				
Noise Level Indl. Area (Day)	dB(A)	75	66.9	IS 9989:1981 (RA 2014):2014
Noise Level Indl. Area (Night)	dB(A)	70	55.3	IS 9989:1981 (RA 2014):2014





KALYANI LABORATORIES PVT. LTD.

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



TEST REPORT



TC-12063

NABL ULR NO : TC1206323000018324

Test Report No : KLPL/11/23/ENVN/02610B

Issue Date : 24-Nov-2023

Amendment No : -

Amendment Date : -

Reference : PO NUMBER :FPPL/3100006601,DATE-8.11.2022

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

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

Date of receipt : 22-Nov-2023

Commenced On : 22-Nov-2023

Completion On: 23-Nov-2023

Sample Name : NOISE

Sample Condition : --

Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)

Ref.To Sampling Procedure : KLPL/NOISE/SOP-23

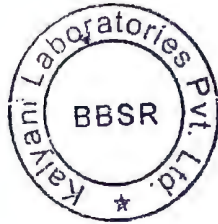
Parameters	Unit	Standard Value	Results	Test Method
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Remarks : -

Any unusual feature observed during determination :NIL
Requirement is as per standard specification Noise Rule 2000
The results relate only to samples tested and test parameters

Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

TEST REPORT



NABL ULR NO : TC1206323000018756

Test Report No : KLPL/11/23/WATER/09739

Issue Date : 29-Nov-2023

Amendment No : -

Amendment Date : -

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

Customer Name : **POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.**

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

Date of receipt : 22-Nov-2023 *Test Commenced On* : 22-Nov-2023 *Test Completion On* : 28-Nov-2023

Sample Description : **WASTE WATER**

Sample Condition : SEALED IN PET BOTTLE

Sample Identification : **ETP OUTLET WATER**

Sampling Date : 21-Nov-2023

Batch No , Lot No : NA

MFG Date : NA

EXP Date : NA

Received Quantity : 1LTR X 4

Place of Collection :SERVICE TANK, DATE-21.11.2023

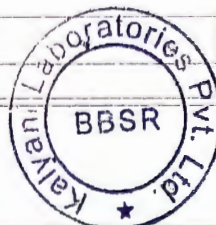
Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)

Ref.To Sampling Procedure : KLPL/QSP-07

Parameters	Unit	Requirement	Result	Test Method
CHEMICAL PARAMETER				
i	Nickel (Ni)	mg/l	--	<0.01 Cl. 7.0 of IS 3025 : Part-54 : 2003 ,RA 2019
ii	Sulphate as SO4	mg/l	--	17 APHA 24th Edition (4500-SO42 --E):2023
iii	Fluoride as F	mg/l,Max	2.0	0.72 APHA 24th Edition (4500-F --D):2023
iv	Chemical Oxygen Demand	mg/l,Max	250	28 APHA 24th Edition (5220 B):2023
v	Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l,Max	30	7.5 APHA 24th Edition (5210 B):2023
vi	Copper (as Cu)	mg/l,Max	3.0	<0.02 Cl. 6.0 of IS 3025 : Part 42 :1992 ,RA 2019
vii	Free residual chlorine	mg/l	--	<0.05 APHA-24th Edition (4500-CL-B):2023
viii	Iron (as Fe)	mg/l,Max	3.0	1.6 Cl. 6.0 of IS 3025 : Part 53 : 2003 ,RA 2019
ix	Manganese (as Mn)	mg/l	--	<0.05 Cl. 5.0 of IS 3025 : Part 59 : 2006 , RA 2017
x	Selenium (as Se)	mg/l	--	<0.005 Cl. 7.0 of IS 3025 : Part -56 : 2003 ,RA 2019
xi	Zinc (as Zn)	mg/l,Max	5.0	<0.05 Cl. 6.0 of IS 3025 : Part 49 : 1994 ,RA 2019
xii	Total Kjeldhal Nitrogen	mg/l,Max	100	6.44 APHA-24th Edition (4500-NORG-B):2023
xiii	Total Suspended Solids,	mg/l,Max	100	28 APHA 24th Edition (2540 D):2023
xiv	Oil & Grease	mg/l,Max	10	<1.0 APHA 24th Edition (5520 C):2023
xv	Total Chromium	mg/l	--	<0.01 IS 3025: Part 2 : 2019
xvi	Hexavalent Chromium (as Cr+6)	mg/l	--	<0.05 APHA 24th Edition (3500-Cr-B):2023
xvii	Dissolved Phosphates (PO42)	mg/l,Max	5.0	<0.5 APHA-24th Edition (4500-P-D):2023
xviii	Nitrate-Nitrogen (NO3- - N)	mg/l,Max	10	7.5 APHA-24th Edition (4500-NO3--E):2023

PHYSICAL PARAMETER				
i	pH Value	--	5.5 - 9.0	7.9 APHA 24th Edition (4500-H+-B):2023
ii	Odour	--	--	DISAGREEABLE IS 3025: Part 5 : 2018

TOXIC SUBSTANCES





KALYANI LABORATORIES PVT. LTD.

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

Test Report No : KLPL/11/23/WATER/09739



Parameters	Unit	Requirement	Result	Test Method
i Cadmium (as Cd)	mg/l	--	<0.001	Cl. 5.0 of IS 3025 ; Part-41 : 1992,RA 2019
ii Lead (as Pb)	mg/l,Max	0.1	<0.005	Cl. 7.0 of IS 3025 ; Part-47 : 1994, RA 2019
iii Mercury (as Hg)	mg/l	--	<0.0005	Cl. 5.0 of IS 3025 ; Part-48 : 1994, RA 2019
iv Arsenic (as As)	mg/l	--	<0.001	IS 3025 ; Part-37 : 1988 ,RA 2019

Remarks : -

General standards for discharge of environmental pollutants part-A:Effluents,Schedule-VI,(See rule3A)

The results relate only to samples tested and test parameters

Any unusual feature observed during determination : NIL

Customer information if any :NIL

Conformity statement as per decision rule, If applicable :N/A

Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorized Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd

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



TEST REPORT



NABL ULR NO : TC1206323000018756

Test Report No : KLPL/11/23/WATER/09739A Issue Date: 29-Nov-2023

Amendment No : - Amendment Date : -

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

Customer Name : **POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.**

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

Date of receipt : 22-Nov-2023 Test Commenced On : 22-Nov-2023 Test Completion On: 28-Nov-2023

Sample Description : **STP OUTLET WATER**

Sample Condition : SEALED IN PET BOTTLE

Sample Identification : **STP OUTLET WATER** Sampling Date : 21-Nov-2023

Batch No , Lot No : NA MFG Date : NA EXP Date : NA

Received Quantity : 1LTR X 2 Place of Collection : PLANT STP OUTLET, DATE-21.11.2023

Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)

Ref.To Sampling Procedure : KLPL/QSP-07

Parameters	Unit	Requirement	Result	Test Method	
CHEMICAL PARAMETER					
i	Chemical Oxygen Demand	mg/l	--	17	APHA 24th Edition (5220 B):2023
ii	Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	30	4.0	APHA 24th Edition (5210 B):2023
iii	Total Suspended Solids.	mg/l, Max	100	6.8	APHA 24th Edition (2540 D):2023
iv	Oil & Grease	mg/l	--	<1.0	APHA 24th Edition (5520 C):2023
v	Total Nitrogen	mg/l	--	<5.0	APHA 24th Edition (4500-Norg-B):2023
vi	Amonnical Nitrogen (as N)	mg/l	--	<0.5	APHA 24th Edition (4500-NH3-C):2023
PHYSICAL PARAMETER					
i	pH value	---	6.5-9.0	7.8	APHA 24th Edition (4500-H+B):2023

Remarks : -

Standard specification as per G.S.R. 1265(E), MOEF & CC , 13th OCTOBER 2017

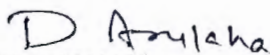
The results relate only to samples tested and test parameters

Any unusual feature observed during determination : NIL

Customer information if any :NIL

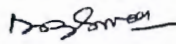
Conformity statement as per decision rule, If applicable :N/A

Analysed By


 Mr. Digambar Arukha
 For Kalyani Laboratories Pvt. Ltd.



Authorized Signatory


 Dr. Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd

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



KALYANI LABORATORIES PVT. LTD.

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



TEST REPORT



TC-12063

NABL ULR NO : TC1206323000018756

Test Report No : KLPL/11/23/WATER/09739B

Issue Date: 29-Nov-2023

Amendment No : -

Amendment Date : -

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

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

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

Date of receipt : 22-Nov-2023 Test Commenced On : 22-Nov-2023 Test Completion On: 28-Nov-2023

Sample Description : WASTE WATER

Sample Condition : SEALED IN PET BOTTLE

Sample Identification : COOLING TOWER BLOWDOWN WATER

Sampling Date : 21-Nov-2023

Batch No , Lot No : NA

MFG Date : NA

EXP Date : NA

Received Quantity : 1LTR X 2

Place of Collection : W-1 COOLING TOWER BLOWDOWN,

Sample Collected By : By KLPL (MR. SUDHIR KUMAR BARIK)

DATE-21.11.2023

Ref.To Sampling Procedure : KLPL/QSP-07

Parameters	Unit	Requirement	Result	Test Method
CHEMICAL PARAMETER				
i Phosphate	mg/l	--	3.5	APHA 24th Edition (4500-P-D):2023
ii Zinc (as Zn)	mg/l	--	0.51	Cl. 6.0 of IS 3025 : Part 49 : 1994 ,RA 2019
iii Free Available Chlorine	mg/l	--	0.32	APHA 24th Edition (4500-CL-B):2023
iv Total Chromium	mg/l	--	<0.01	IS 3025 : Part 02 : 2019

Remarks : -

The results relate only to samples tested and test parameters

Any unusual feature observed during determination : NIL

Customer information if any :NIL

Conformity statement as per decision rule, If applicable :N/A

Analysed By

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorized Signatory

Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd

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



KALYANI LABORATORIES PVT. LTD.

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



TEST REPORT



TC-12063

NABL ULR NO : TC1206323000018756

Test Report No : KLPL/11/23/WATER/09739C

Issue Date: 29-Nov-2023

Amendment No : -

Amendment Date : -

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

Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.

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

Date of receipt : 22-Nov-2023 Test Commenced On : 22-Nov-2023 Test Completion On: 28-Nov-2023

Sample Description : WASTE WATER

Sample Condition : SEALED IN PET BOTTLE

Sample Identification : BOILER BLOW DOWN WATER

Sampling Date : 21-Nov-2023

Batch No , Lot No : NA

MFG Date : NA

EXP Date : NA

Received Quantity : 1LTR X 2

Place of Collection :W-3 BOILER BLOW DOWN, DATE-21.11.2023

Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)

Ref.To Sampling Procedure : KLPL/QSP-07

Parameters	Unit	Requirement	Result	Test Method
CHEMICAL PARAMETER				
i Copper (as Cu)	mg/l	--	<0.02	Cl. 6.0 of IS 3025 : Part 42 :1992 ,RA 2019
ii Iron (as Fe)	mg/l	--	<0.05	Cl. 6.0 of IS 3025 : Part 53 : 2003 ,RA 2019
iii Total Suspended Solids	mg/l	--	7.0	APHA 24th Edition (2540 D):2023
iv Oil & Grease	mg/l	--	<1.0	APHA 24th Edition (5520 C):2023

Remarks : -

The results relate only to samples tested and test parameters

Any unusual feature observed during determination : NIL

Customer information if any :NIL

Conformity statement as per decision rule, If applicable :N/A

Analysed By

D Arukha
Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorized Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd

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



KALYANI LABORATORIES PVT. LTD.

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

TEST REPORT



Test Report No	: KLPL/11/23/WATER/09739A	Issue Date:	29-Nov-2023
Amendment No	: -	Amendment Date	: -
Reference	: P.O NO-FPPL/3100006601,DATE-8.11.2022		
Customer Name	: POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.		
Address	: D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA		
Date of receipt	: 22-Nov-2023	Test Commenced On	: 22-Nov-2023
Sample Description	: STP OUTLET WATER	Test Completion On	: 28-Nov-2023
Sample Condition	: SEALED IN PET BOTTLE		
Sample Identification	: STP OUTLET WATER	Sampling Date	: 21-Nov-2023
Batch No , Lot No	: NA	MFG Date	: NA
Received Quantity	: 1LTR X 2	EXP Date	: NA
Sample Collected By	: By KLPL(MR. SUDHIR KUMAR BARIK)	Place of Collection	: PLANT STP OUTLET, DATE-21.11.2023
Ref.To Sampling Procedure	: KLPL/QSP-07		

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
I Feecal Coliform	MPN/100ml.	<1000	67	IS 1622:1981, RA 2009

Remarks : -

Any unusual feature observed during determination :NIL

Analysed By
Smruti S. Panda
Miss. Smruti Sephali Panda
For Kalyani Laboratories Pvt. Ltd.



Authorized Signatory
Rekha Nayak
Dr. Rekha Nayak
For Kalyani Laboratories Pvt. Ltd

End of Test Report



Kalyani Laboratories

KALYANI LABORATORIES PVT. LTD.

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

TEST REPORT



Test Report No : KLPL/11/23/WATER/09739 Issue Date: 29-Nov-2023
Amendment No : - Amendment Date : -
Reference : P.O NO-FPPL/3100006601,DATE-8.11.2022
Customer Name : POWER PLANT OF M/S FERRO ALLOYS CORPORATION LIMITED.
Address : D.P NAGAR, RANDIA, BHADRAK-756135, ODISHA
Date of receipt : 22-Nov-2023 Test Commenced On : 22-Nov-2023 Test Completion On: 28-Nov-2023
Sample Description : WASTE WATER

Sample Condition : SEALED IN PET BOTTLE
Sample Identification : ETP OUTLET WATER Sampling Date : 21-Nov-2023
Batch No , Lot No : NA MFG Date : NA EXP Date : NA
Received Quantity : 1LTR X 4 Place of Collection :SERVICE TANK, DATE-21.11.2023
Sample Collected By : By KLPL (MR. SUDHIR KUMAR BARIK)
Ref.To Sampling Procedure : KLPL/QSP-07

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100ml	--	238	IS: 1622:1981,RA:2018

Remarks : -

Any unusual feature observed during determination :NIL

Analysed By

Smruti S. Panda

Miss. Smruti Sephali Panda
For Kalyani Laboratories Pvt. Ltd.

Authorized Signatory

Rekha Nayak

Dr. Rekha Nayak 29/11/2023
For Kalyani Laboratories Pvt. Ltd



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

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