

ENVIRONMENTAL SEASONAL REPORT

SEASONAL REPORT

April 2019 to June 2019



Address

Via: Viswanathpur, P.O.Lanjigarh-766027

Dist. Kalahandi,ORISSA

Tel: + 91 6677 247312/13/14/15/16

Fax: +91 6677 247311

July - 2019

MICRO-METEOROLOGICAL DATA AT SITE

Period: 1st April 2019 to 30th June 2019

Location: Plant Site

Month	Temperature (°C)		Relative Humidity (%)		Rainfall (mm)
	Max	Min	Max	Min	Total
April	42.60	18.90	92.70	18.90	33.5
May	41.6	20.9	93.2	16.80	59.94
June	41.70	22.90	95.0	36.20	61.7
			Total rainfall		155.14

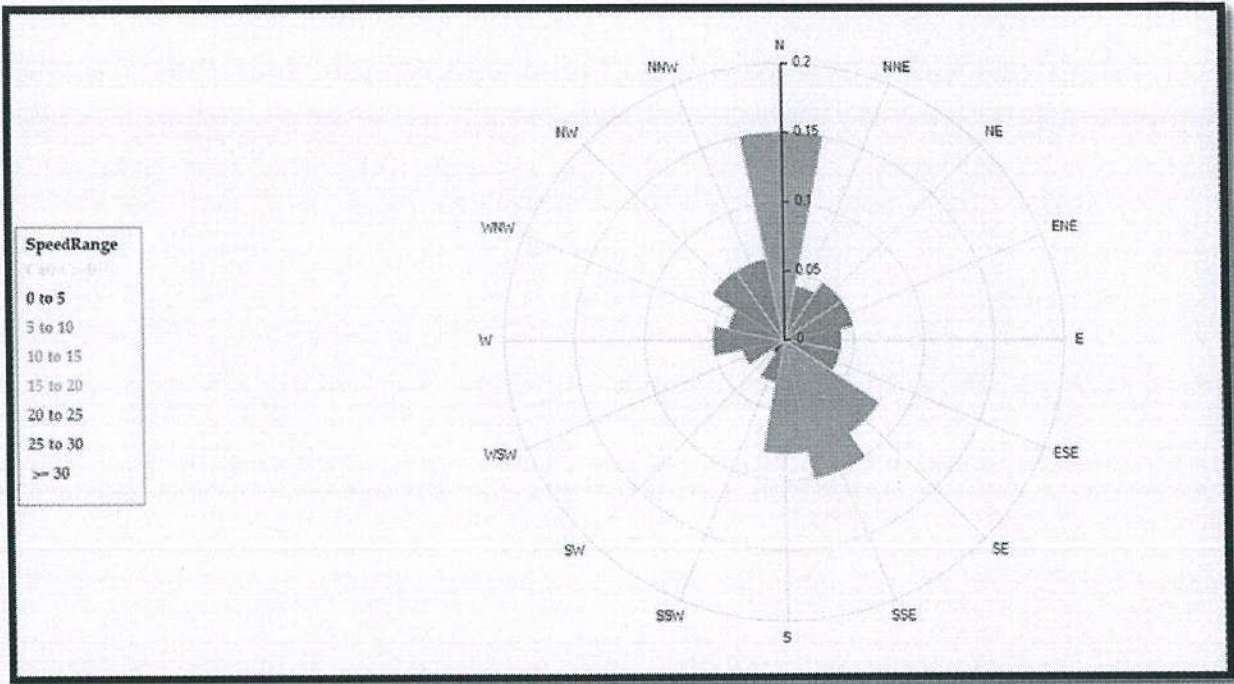
SUMMARY OF WIND PATTERN IN STUDY AREA

Season	First Predominant Wind Direction	Second Predominant Wind Direction	Predominant Wind Speeds (m/sec)	Calm (%)
Apr` 19 to Jun` 19	N	SSE	0-1.3	0

Wind Pattern during the Season

During the period the average winds from N direction were observed for 16.53% of the total time. In SSE direction the winds were also observed for 11.08% of the total time. The other direction and percentage frequencies were observed from S (9.05%), SE (8.91%), NNW (8.23%), and W (7.50 %).The calm conditions were observed to be for 0.0 % of the total time.





WINDROSE DIAGRAM FOR THE SEASON – (Apr'19 to Jun` 19)



SR

SUMMARY OF AMBIENT AIR QUALITY RESULTSConcentrations are expressed in $\mu\text{g}/\text{m}^3$

Location	PM ₁₀			PM _{2.5}			SO ₂			NO _x		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
Plant Site	88	81	84.25	57.28	51.29	53.82	14.26	11.39	12.92	30.07	23.12	27.08
Lanjigarh	78	71	74.17	48.16	42.56	46.3	13.4	9.16	11.13	25.43	21.14	23.37
Belamba	72	63	68.58	47.42	42.02	44.05	8.4	6.48	7.66	20.34	16.11	19.01
Niyamgiri Vedanta Nagar	80	70	76.17	52.18	44.45	48.96	11.11	9.03	10.01	25.2	20.04	22
Mid-Day Meal	80	72	75.25	52.18	46.03	48.7	12.12	9.16	10.26	23.37	20.12	22.07
Chhatrapur	75	64	69.83	47.42	41.11	44.56	10.39	6.4	8.14	23.08	14.32	17.72
	88.0 – 63.0			57.28 – 41.11			14.26 – 6.4			30.07 – 14.32		



ONLINE STACK MONITORING TEST RESULT OF CALCINER AND CF BOILER FOR THE MONTH OF APRIL 2019

Date of sampling	Calciner 1				Calciner 2				CFB Stack			
	SO2	NOx	CO	PM	SO2	NOx	CO	PM	SO2	NOx	CO	PM
Parameter	ppm	ppm	%	mg/NM3	ppm	ppm	%	mg/NM3	ppm	ppm	mg/Nm ³	mg/NM3
01-Apr-19	448.82	0.00	0.07	25	340.53	311.33	0.07	33	1968.23	516.79	7.28	71.17
02-Apr-19	457.62	0.00	0.09	26	338.11	329.06	0.06	38	1798.50	444.07	4.87	72.83
03-Apr-19	469.88	0.00	0.10	26	337.39	329.91	0.04	34	1101.27	352.26	7.96	77.47
04-Apr-19	450.82	0.00	0.09	28	323.06	328.71	0.04	36	1161.21	359.19	25.23	67.75
05-Apr-19	401.05	269.54	0.09	24	309.56	331.63	0.03	31	1308.73	345.01	9.50	71.46
06-Apr-19	425.90	279.42	0.10	26	311.06	336.28	0.03	33	1076.59	382.80	10.21	61.88
07-Apr-19	454.43	289.91	0.09	29	311.72	329.61	0.04	40	703.710	378.81	15.45	74.62
08-Apr-19	480.57	306.22	0.10	28	312.34	332.10	0.06	40	1400.81	408.61	16.69	75.29
09-Apr-19	382.97	294.67	0.11	27	316.00	333.25	0.04	45	1377.59	411.04	4.20	70.99
10-Apr-19	457.51	299.71	0.08	28	308.09	323.07	0.04	40	1492.63	428.58	9.59	76.91
11-Apr-19	457.76	312.46	0.06	28	308.47	311.21	0.04	38	1613.92	381.21	31.14	86.87
12-Apr-19	464.26	329.00	0.06	29	312.81	309.99	0.04	35	1420.90	398.25	4.30	83.08
13-Apr-19	440.46	337.39	0.10	41	312.67	339.07	0.05	37	1578.31	358.85	8.30	74.82
14-Apr-19	447.31	336.00	0.10	35	313.01	331.26	0.05	34	1261.79	441.56	7.52	74.67
15-Apr-19	452.99	344.89	0.10	29	336.44	337.61	0.05	31	1482.80	526.67	8.69	78.13
16-Apr-19	470.40	351.71	0.10	31	347.86	337.42	0.06	32	1496.53	477.94	10.95	65.86
17-Apr-19	469.64	356.71	0.11	34	344.99	342.68	0.05	38	1618.31	497.44	23.26	66.24
18-Apr-19	453.83	363.70	0.12	41	352.36	346.52	0.06	26	1623.31	472.23	6.05	72.62
19-Apr-19	434.34	361.59	0.11	32	361.51	337.74	0.06	29	1553.21	497.62	5.56	71.73
20-Apr-19	429.28	373.60	0.12	25	464.32	348.05	0.02	33	1462.27	466.65	6.14	77.53
21-Apr-19	418.42	371.95	0.11	23	616.70	336.86	0.01	25	1345.82	484.93	8.32	71.22
22-Apr-19	424.23	385.45	0.10	26	685.55	334.07	0.01	26	1289.92	510.74	6.14	76.41
23-Apr-19	449.40	397.35	0.11	27	703.82	334.08	0.00	27	1122.45	522.46	6.26	74.43
24-Apr-19	441.78	403.66	0.12	29	612.26	339.29	0.00	33	1085.72	480.37	5.92	72.15
25-Apr-19	425.43	402.63	0.10	39	643.25	340.02	0.01	29	1478.98	520.82	8.96	72.48
26-Apr-19	417.02	407.18	0.11	43	622.14	341.45	0.01	28	1576.90	433.28	16.42	82.43
27-Apr-19	398.75	403.07	0.12	30	592.40	346.86	0.02	34	1703.23	506.60	7.74	75.03
28-Apr-19	441.84	421.67	0.12	29	746.77	341.00	0.01	28	1448.13	352.87	35.94	51.63
29-Apr-19	441.34	422.70	0.12	29	723.72	342.53	0.01	28	1650.96	495.80	12.60	78.28
30-Apr-19	437.67	428.83	0.11	29	675.70	345.76	0.01	29	1603.45	381.47	25.97	81.27



Seasonal Report (Apr` 19 to Jun` 19)

ONLINE STACK MONITORING TEST RESULT OF CALCINER AND CF BOILER FOR THE MONTH OF MAY 2019

Date of sampling parameter	Calciner 1				Calciner 2				CFB Stack			
	SO2 ppm	NOx ppm	CO %	PM mg/NM3	SO2 ppm	NOx ppm	CO %	PM mg/NM3	SO2 ppm	NOx ppm	CO mg/Nm ³	PM mg/NM3
1-May-19	390.28	425.62	0.11	25.00	750.36	343.23	0.01	25.00	1355.06	427.78	9.51	80.23
2-May-19	422.25	433.50	0.11	26.00	706.53	336.52	0.00	28.00	1493.11	467.31	9.32	80.33
3-May-19	395.48	440.45	0.12	29.00	673.51	320.31	0.01	27.00	1414.10	500.80	11.41	80.30
4-May-19	400.10	423.23	0.10	33.00	664.39	337.07	0.01	28.00	1254.69	457.87	7.74	74.02
5-May-19	401.27	438.77	0.11	29.00	635.57	330.25	0.00	30.00	1485.43	488.94	5.93	73.81
6-May-19	419.27	445.31	0.12	30.00	309.16	331.26	0.00	26.00	1628.69	475.45	6.29	70.86
7-May-19	415.96	444.23	0.08	30.00	277.01	317.63	0.09	27.00	1379.45	475.17	5.56	72.08
8-May-19	442.01	460.77	0.08	32.00	263.87	307.02	0.02	29.00	1503.59	430.53	15.57	66.46
9-May-19	436.48	474.20	0.09	34.00	230.17	309.88	0.03	27.00	1621.26	418.79	8.90	79.18
0-May-19	415.98	469.43	0.08	27.00	226.06	316.01	0.03	31.00	1584.67	409.01	10.48	73.22
1-May-19	400.59	477.59	0.07	26.00	281.75	312.10	0.03	30.00	1531.64	403.89	9.05	77.98
2-May-19	431.41	479.13	0.08	27.00	272.15	309.31	0.03	29.00	1608.47	407.50	5.14	77.19
3-May-19	442.69	482.63	0.07	31.00	256.31	324.23	0.03	29.00	1650.32	467.36	9.44	84.26
4-May-19	450.82	489.56	0.07	26.00	267.00	332.96	0.03	29.00	1579.82	482.46	10.86	79.23
5-May-19	442.15	494.45	0.07	24.00	274.37	332.84	0.03	34.00	1539.12	492.84	6.30	76.66
6-May-19	440.65	492.85	0.08	27.00	259.92	334.39	0.03	39.00	1156.46	503.66	8.37	77.80
7-May-19	435.97	496.94	0.07	27.00	257.08	336.18	0.03	32.00	1156.92	436.06	10.82	71.69
8-May-19	491.52	492.68	0.09	25.00	244.34	346.53	0.02	37.00	1282.11	461.73	5.12	72.68
9-May-19	472.74	491.01	0.09	31.00	224.13	344.71	0.02	42.00	1568.61	441.94	8.83	75.10
0-May-19	472.56	0.00	0.09	26.00	0.00	0.00	0.00	0.00	1744.68	510.89	6.34	71.33
1-May-19	471.15	0.00	0.09	26.00	0.00	0.00	0.00	0.00	1694.90	493.56	6.21	68.37
2-May-19	376.38	382.12	0.13	27.00	481.74	365.37	0.03	34.00	1450.34	426.84	91.59	69.91
3-May-19	386.51	444.82	0.12	28.00	309.79	351.93	0.03	28.00	1423.06	441.03	7.92	70.71
4-May-19	385.06	462.53	0.12	28.00	246.03	355.14	0.02	29.00	1358.34	441.64	6.92	68.85
5-May-19	392.06	462.23	0.12	28.00	228.16	353.23	0.02	30.00	1162.35	369.16	8.27	74.87
6-May-19	384.96	453.12	0.13	28.00	241.93	355.31	0.02	28.00	1459.93	438.82	8.88	79.01
7-May-19	382.74	439.10	0.11	28.00	264.49	354.14	0.02	30.00	1562.04	452.26	6.42	76.24
8-May-19	376.40	434.13	0.12	31.00	235.83	365.30	0.02	31.00	1621.59	436.27	9.84	78.92
9-May-19	373.88	429.44	0.15	33.00	240.37	397.59	0.02	32.00	1478.98	391.80	112.22	68.22
0-May-19	365.04	404.67	0.13	33.00	229.60	364.11	0.01	32.00	1408.82	413.54	8.26	74.16
1-May-19	373.46	390.45	0.00	33.00	163.78	324.50	0.01	34.00	1540.33	428.30	7.33	76.81



ONLINE STACK MONITORING TEST RESULT OF CALCINER AND CF BOILER FOR THE MONTH OF JUNE 2019

Date of sampling Parameter	Calciner 1				Calciner 2				CFB Stack			
	SO2	NOx	CO	PM	SO2	NOx	CO	PM	SO2	NOx	CO	PM
Unit	ppm	ppm	%	mg/NM3	ppm	ppm	%	mg/NM3	ppm	ppm	mg/Nm ³	mg/NM3
01-Jun-19	371.06	407.87	0	30	175.20	334.45	0.01	28	1528.53	438.40	9.7	75.97
02-Jun-19	371.92	408.10	0	30	223.82	342.31	0	29	1496.76	425.63	6.9	72.38
03-Jun-19	358.53	408.08	0.01	38	241.12	344.48	0.01	34	1574.81	416.27	7.5	75.84
04-Jun-19	364.61	407.45	0	39	237.29	340.48	0	30	1396.01	362.42	6.1	75.33
05-Jun-19	377.21	407.15	0.01	31	207.92	339.33	0	30	1332.23	391.97	7.6	75.68
06-Jun-19	382.95	411.50	0.01	29	225.45	330.57	0	27	1437.41	433.84	8.6	78.65
07-Jun-19	389.57	426.65	0.07	31	237.92	347.78	0.01	29	1366.81	441.69	7.3	77.66
08-Jun-19	384.92	425.30	0.09	30	231.16	367.34	0.01	30	1147.53	377.40	24.5	84.25
09-Jun-19	383.47	423.32	0.08	30	221.97	365.22	0.01	27	1331.20	412.07	10.8	75.12
10-Jun-19	388.64	425.63	0.08	29	222.33	370.55	0.01	26	1340.46	473.32	6.0	80.17
11-Jun-19	377.05	427.47	0.08	28	216.31	377.62	0.02	25	1173.40	464.46	16.4	74.85
12-Jun-19	392.56	411.81	0.07	29	250.38	352.90	0.02	29	1100.77	363.89	8.2	71.04
13-Jun-19	399.11	428.57	0.07	30	225.34	343.24	0.02	26	1219.94	450.28	9.0	76.23
14-Jun-19	417.53	437.45	0.1	30	151.34	368.47	0.02	28	937.28	458.70	8.5	70.82
15-Jun-19	445.98	436.55	0.02	29	181.36	356.95	0	30	1149.93	409.44	7.2	71.84
16-Jun-19	442.78	445.91	0	30	270.20	359.70	0.01	27	1209.18	368.35	7.5	86.71
17-Jun-19	442.55	444.94	0	30	272.93	351.07	0.01	28	1179.93	477.24	5.6	89.06
18-Jun-19	433.69	440.20	0	29	222.60	350.63	0.01	28	1114.31	468.92	10.7	77.36
19-Jun-19	438.14	447.88	0.05	36	240.07	351.49	0.01	30	1158.00	472.03	8.6	73.71
20-Jun-19	436.62	453.98	0	29	268.87	348.96	0.01	28	1317.70	459.36	9.9	78.18
21-Jun-19	433.69	456.60	0.1	32	273.50	349.49	0.01	30	1527.76	459.85	14.5	79.07
22-Jun-19	450.37	464.08	0.12	30	293.90	358.23	0.01	28	1712.45	483.32	14.2	76.69
23-Jun-19	453.52	468.61	0.1	31	295.10	354.45	0.01	29	1395.60	499.24	8.1	72.59
24-Jun-19	446.50	473.43	0.09	31	286.08	345.01	0.01	29	1433.11	497.82	10.8	76.62
25-Jun-19	460.11	482.03	0.09	32	308.17	346.93	0.01	29	1364.14	460.98	8.7	70.05
26-Jun-19	461.30	488.82	0.09	35	283.74	346.04	0.01	32	1375.43	506.21	8.7	79.98
27-Jun-19	448.90	488.40	0.06	36	307.41	337.87	0	31	1517.11	501.71	9.1	74.40
28-Jun-19	437.56	487.74	0.01	36	267.01	326.18	0	32	1419.17	466.94	13.0	77.67
29-Jun-19	0.00	0.00	0.00	0.00	284.15	316.27	0	30	1360.37	511.72	7.9	77.93
30-Jun-19	0.00	0.00	0.00	0.00	221.08	318.35	0.06	34	1273.27	424.33	5.7	68.99

Note: Calciner 1 was not under operation on dt: 29-06-2019 & dt: 30-06-2019.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001728F

Test Report No : 797 | 18346COKLPL/6/19/WATER/00867

Issue Date : 09-Jul-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019

Test Completion On: 21/06/2019

Sample Description : SURFACE WATER

Sample Condition : SEALED IN 1 LTR PET BOTTLE

Sample Identification * : RIVER WATER

Sampling Date : 12-Jun-2019

Batch No , Lot No : NA

MFG Date : NA

EXP Date : NA

Received Quantity : 1 LTR X 1

Place of Collection : TENTULI PADAR DT : 12.06.2019

Sample Collected By : By KLPL

Ref. To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100ml.	5000	90	IS: 1622:1981 RA 2009
ii Faecal Coliform	MPN/100ml.	--	34	IS 1622 : 1981 RA 2009
CHEMICAL PARAMETER				
i Chloride as Cl	mg/l, Max	600	5.4	APHA 23rd Edition (4500-Cl --B), 2017
ii Sulphate as SO4	mg/l, Max	400	< 1.0	APHA 23rd Edition (4500-So42 --E), 2017
iii Nitrate as NO3	mg/l, Max	50	0.09	APHA 23rd Edition (4500-NO3 --E), 2017
iv Temperature	°c	--	28	APHA -----
v Electrical Conductivity	µs/cm	--	48	APHA 23rd Edition (2510 B) 2017
vi Fluoride as F	mg/l, Max	1.5	0.09	APHA 23rd Edition (4500-F --D,-C), 2017
vii Total Dissolved Solid	mg/l, Max	1500	46	APHA 23rd Edition (2540 C), 2017
viii Calcium as Ca	mg/l, Max	--	5.3	APHA 23rd Edition (3500-Ca-B), 2017
ix Magnesium as Mg	mg/l, Max	--	7.53	APHA 23rd Edition (3500-Mg-B), 2017
x Chemical Oxygen Demand	mg/l, Max	--	12	APHA 23rd Edition (5220 B), 2017
xi Phosphate	mg/l, Max	--	< 0.1	APHA 23rd Edition (4500-P-D), 2017
xii Dissolved Oxygen	mg/l, Max	4.0	6.9	APHA 23rd Edition(4500-O-C), 2017
xiii Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	3.0	2.5	APHA 23rd Edition 2012(5210 B), 2017
xiv Total Hardness as CaCO3	mg/l, Max	--	44	APHA 23rd Edition (2340 C), 2017
xv Total Alkalinity	mg/l, Max	--	25	APHA 23rd Edition (2120 B), 2017
xvi Copper (as Cu)	mg/l, Max	1.5	< 0.01	IS 3025 (Part 42):1992 RA 2009
xvii Iron (as Fe)	mg/l, Max	50	0.07	APHA-23rd Edition (3500-Fe-B , 3111 B) 2017
xviii Manganese (as Mn)	mg/l, Max	--	< 0.1	IS 3025 (Part 59):2006 RA 2012
xix Selenium (as Se)	mg/l, Max	0.01	< 0.01	IS 3025 (Part 56):2003 RA 2009
xx Total Chromium	mg/l, Max	--	< 0.01	IS 3025 (Part 52):2003 RA 2009
xxi Residual Chlorine	mg/l, Max	--	0.08	APHA-23rd Edition (4500-Cl-B) 2017

KALYANI LABORATORIES PVT. LTD.



78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 797 | 18346C0KLPL/6/19/WATER/00867



Parameters	Unit	Requirement	Result	Test Method
xxii Aluminum (as Al)	mg/l, Max	--	< 0.01	IS 3025 (Part 55): 2003 RA 2009
xxiii Polynuclear Aromatic Hydrocarbon	mg/l, Max	--	< 0.0001	APHA 6440
PHYSICAL PARAMETER				
i Color	--	300	< 1.0	APHA 23rd Edition (2120 B), 2017
ii pH Value	--	6.5-8.5	7.4	APHA 23rd Edition (4500-H+-B), 2017
iii Odour	--	Unobjectionable	AGREEABLE	APHA 23rd Edition (2120 B), 2017
iv Taste	---	Agreeable	AGREEABLE	IS 3025 (Part 8): 1984, RA 2006
v Turbidity	NTU, Max	--	1.5	IS 3025 (Part 10):1984, RA 2006
TOXIC SUBSTANCES				
i Lead (as Pb)	mg/l, Max	0.1	< 0.01	IS 3025 (Part 47):1994 RA 2009
ii Mercury (as Hg)	mg/l, Max	0.001	< 0.001	IS 3025 (Part 48):1994 RA 2009
iii Arsenic (as As)	mg/l, Max	0.2	< 0.01	IS 3025 (Part 37):1988 RA 2009

Remarks : NIL

Any unusual feature observed during determination : NIL

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

M. S. S. S.
 Authorized Signatory
 For Kalyani Laboratories Pvt. Ltd





KALYANI LABORATORIES PVT. LTD.

78/9-44, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001729F
Test Report No : 798 | 18356C1KLPL/6/19/WATER/00868 **Issue Date** : 09-Jul-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019 **Test Completion On**: 21/06/2019
Sample Description : **SURFACE WATER**

Sample Condition : SEALED IN 1 LTR PET BOTTLE
Sample Identification * : **RIVER WATER** **Sampling Date** : 12-Jun-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1 LTR X 1 **Place of Collection** : KENDUBADI DT : 12.06.2019
Sample Collected By : By KLPL
Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
I Total Coliforms	MPN/100ml.	5000	110	IS: 1622:1981 RA 2009
II Faecal Coliform	MPN/100ml.	--	60	IS 1622 : 1981 RA 2009
CHEMICAL PARAMETER				
I Chloride as Cl	mg/l, Max	600	5.4	APHA 23rd Edition (4500-Cl - -B), 2017
II Sulphate as SO4	mg/l, Max	400	< 1.0	APHA 23rd Edition (4500-SO4 - -E), 2017
iii Nitrate as NO3	mg/l, Max	50	< 0.05	APHA 23rd Edition (4500-NO3 - -E), 2017
iv Temperature	°c	--	28	APHA -----
v Electrical Conductivity	µs/cm	--	24	APHA 23rd Edition (2510 B) 2017
vi Fluoride as F	mg/l, Max	1.5	< 0.05	APHA 23rd Edition (4500-F - -D,-C), 2017
vii Total Dissolved Solid	mg/l, Max	1500	24	APHA 23rd Edition (2540 C), 2017
viii Calcium as Ca	mg/l, Max	--	1.8	APHA 23rd Edition (3500-Ca-B), 2017
ix Magnesium as Mg	mg/l, Max	--	4.37	APHA 23rd Edition (3500-Mg-B), 2017
x Chemical Oxygen Demand	mg/l, Max	--	23	APHA 23rd Edition (5220 B), 2017
xi Phosphate	mg/l, Max	--	< 0.1	APHA 23rd Edition (4500-P-D), 2017
xii Dissolved Oxygen	mg/l, Max	4.0	5.8	APHA 23rd Edition(4500-O-C), 2017
xiii Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	--	2.8	APHA 23rd Edition 2012(5210 B), 2017
xiv Total Hardness as CaCO3	mg/l, Max	--	22	APHA 23rd Edition (2340 C), 2017
xv Total Alkalinity	mg/l, Max	--	20	APHA 23rd Edition (2120 B), 2017
xvi Copper (as Cu)	mg/l, Max	1.5	< 0.01	IS 3025 (Part 42):1992 RA 2009
xvii Iron (as Fe)	mg/l, Max	50	0.11	APHA-23rd Edition (3500-Fe-B , 3111 B) 2017
xviii Manganese (as Mn)	mg/l, Max	--	< 0.1	IS 3025 (Part 59):2006 RA 2012
xix Selenium (as Se)	mg/l, Max	0.01	< 0.01	IS 3025 (Part 56):2003 RA 2009
xx Total Chromium	mg/l, Max	--	< 0.01	IS 3025 (Part 52):2003 RA 2009
xxi Residual Chlorine	mg/l, Max	--	0.2	APHA-23rd Edition (4500-Cl-B) 2017

KALYANI LABORATORIES PVT. LTD.



78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : **798 | 18356C1KLPL/6/19/WATER/00868**



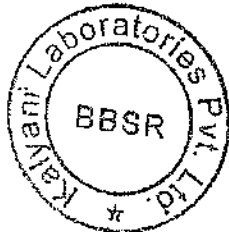
Parameters	Unit	Requirement	Result	Test Method
xxii Aluminum (as Al)	mg/l, Max	--	< 0.01	IS 3025 (Part 55): 2003 RA 2009
xxiii Polynuclear Aromatic Hydrocarbon	mg/l, Max	--	< 0.0001	APHA 6440
PHYSICAL PARAMETER				
i Color	--	300	< 1.0	APHA 23rd Edition (2120 B), 2017
ii pH Value	--	6.5-8.5	7.3	APHA 23rd Edition (4500-H4-B), 2017
iii Odour	--	Unobjectionable	AGREEABLE	APHA 23rd Edition (2120 B), 2017
iv Taste	----	Agreeable	AGREEABLE	IS 3025 (Part 8): 1984, RA 2006
v Turbidity	NTU, Max	--	6.0	IS 3025 (Part 10):1984, RA 2006
TOXIC SUBSTANCES				
i Lead (as Pb)	mg/l, Max	0.1	< 0.01	IS 3025 (Part 47):1994 RA 2009
ii Mercury (as Hg)	mg/l, Max	0.001	< 0.001	IS 3025 (Part 48):1994 RA 2009
iii Arsenic (as As)	mg/l, Max	0.2	< 0.01	IS 3025 (Part 37):1988 RA 2009

Remarks : NIL

Any unusual feature observed during determination : NIL

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

[Signature]
 Authorized Signatory
 For Kalyani Laboratories Pvt. Ltd



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



TEST REPORT



NABL ULR NO : TC704319000001731F
Test Report No : 800 | 18376C3KLPL/6/19/WATER/00870 **Issue Date** : 09-Jul-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019 **Test Completion On**: 21/06/2019
Sample Description : SURFACE WATER

Sample Condition : SEALED IN 1 LTR PET BOTTLE
Sample Identification * : RIVER WATER **Sampling Date** : 12-Jun-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1 LTR X 1 **Place of Collection** : VAMSADHARA RIVER NEAR NARAYANPUR, 12.06.2019
Sample Collected By : By KLPL
Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100ml.	50	90	IS: 1622:1981 RA 2009
ii Faecal Coliform	MPN/100ml.	Not Applicable	40	IS 1622 : 1981 RA 2009
CHEMICAL PARAMETER				
i Chloride as Cl	mg/l, Max	600	8.9	APHA 23rd Edition (4500-Cl - -B), 2017
ii Sulphate as SO4	mg/l, Max	400	4.0	APHA 23rd Edition (4500-So42 - -E), 2017
iii Nitrate as NO3	mg/l, Max	50	0.12	APHA 23rd Edition (4500-NO3 - -E), 2017
iv Temperature	°c	-	28	APHA -----
v Electrical Conductivity	µs/cm	-	100	APHA 23rd Edition (2510 B) 2017
vi Fluoride as F	mg/l, Max	1.5	0.13	APHA 23rd Edition (4500-F - -D,-C), 2017
vii Total Dissolved Solid	mg/l, Max	1500	70	APHA 23rd Edition (2540 C), 2017
viii Calcium as Ca	mg/l, Max	-	10.6	APHA 23rd Edition (3500-Ca-B), 2017
ix Magnesium as Mg	mg/l, Max	-	8.75	APHA 23rd Edition (3500-Mg-B), 2017
x Chemical Oxygen Demand	mg/l, Max	-	15	APHA 23rd Edition (5220 B), 2017
xi Phosphate	mg/l, Max	-	< 0.1	APHA 23rd Edition (4500-P-D), 2017
xii Dissolved Oxygen	mg/l, Max	4.0	6.9	APHA 23rd Edition(4500-O-C), 2017
xiii Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	--	2.6	APHA 23rd Edition 2012(5210 B), 2017
xiv Total Alkalinity	mg/l, Max	-	56	APHA 23rd Edition (2120 B), 2017
xv Copper (as Cu)	mg/l, Max	1.5	< 0.01	IS 3025 (Part 42):1992 RA 2009
xvi Iron (as Fe)	mg/l, Max	50	1.2	APHA-23rd Edition (3500-Fe-B , 3111 B) 2017
xvii Manganese (as Mn)	mg/l, Max	--	< 0.1	IS 3025 (Part 59):2006 RA 2012
xviii Selenium (as Se)	mg/l, Max	0.01	< 0.01	IS 3025 (Part 56):2003 RA 2009
xix Total Chromium	mg/l, Max	0.05	< 0.01	IS 3025 (Part 52):2003 RA 2009
xx Residual Chlorine	mg/l, Max	---	0.3	APHA-23rd Edition (4500-Cl-B) 2017
xxi Aluminum (as Al)	mg/l, Max	--	< 0.01	IS 3025 (Part 55): 2003 RA 2009

KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



Test Report No : **800 | 18376C3KLPL/6/19/WATER/00870**



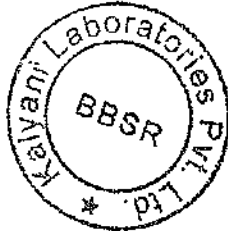
Parameters	Unit	Requirement	Result	Test Method
xxii Polynuclear Aromatic Hydrocarbon	mg/l, Max	--	< 0.0001	APHA 644D
PHYSICAL PARAMETER				
i Color	--	300	< 1.0	APHA 23rd Edition (2120 B), 2017
ii pH Value	--	6.5-8.5	7.3	APHA 23rd Edition (4500-H+-B), 2017
iii Odour	--	Unobjectionable	AGREEABLE	APHA 23rd Edition (2120 B), 2017
iv Taste	---	Agreeable	AGREEABLE	IS 3025 (Part 8): 1984, RA 2006
v Turbidity	NTU, Max	--	6.0	IS 3025 (Part 10):1984, RA 2006

Remarks : NIL

Any unusual feature observed during determination : NIL

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

[Signature]
 Authorized Signatory
 For Kalyani Laboratories Pvt. Ltd



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



TEST REPORT



NABL ULR NO : TC704319000001732F

Test Report No : 801 | 18506C4KLPL/6/19/WATER/00883 **Issue Date** : 09-Jul-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019 **Test Completion On**: 21/06/2019
Sample Description : SURFACE WATER

Sample Condition : SEALED IN 1 LTR PET BOTTLE
Sample Identification * : SURFACE WATER **Sampling Date** : 12-Jun-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1 LTR X 1 **Place of Collection** : VANSADHARA RIVER NEAR BATELIMA -VD 3,
Sample Collected By : By KLPL 12.06.2019
Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100ml.	5000	80	IS: 1622:1981 RA 2009
ii Faecal Coliform	MPN/100ml.	--	30	IS 1622 : 1981 RA 2009
CHEMICAL PARAMETER				
i Chloride as Cl	mg/l, Max	600	12.5	APHA 23rd Edition (4500-Cl - -B), 2017
ii Sulphate as SO4	mg/l, Max	400	22	APHA 23rd Edition (4500-SO4 - -E), 2017
iii Nitrate as NO3	mg/l, Max	50	0.5	APHA 23rd Edition (4500-NO3 - -E), 2017
iv Temperature	°c	--	28	APHA
v Electrical Conductivity	µs/cm	--	144	APHA 23rd Edition (2510 B) 2017
vi Fluoride as F	mg/l, Max	1.5	0.07	APHA 23rd Edition (4500-F - -D,-C), 2017
vii Total Dissolved Solid	mg/l, Max	1500	110	APHA 23rd Edition (2540 C), 2017
viii Calcium as Ca	mg/l, Max	--	19.4	APHA 23rd Edition (3500-Ca-B), 2017
ix Magnesium as Mg	mg/l, Max	--	7.53	APHA 23rd Edition (3500-Mg-B), 2017
x Chemical Oxygen Demand	mg/l, Max	--	6	APHA 23rd Edition (5220 B), 2017
xi Phosphate	mg/l, Max	--	< 0.1	APHA 23rd Edition (4500-P-D), 2017
xii Dissolved Oxygen	mg/l, Max	4.0	8.3	APHA 23rd Edition(4500-O-C), 2017
xiii Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	3.0	1.5	APHA 23rd Edition 2012(5210 B), 2017
xiv Total Hardness as CaCO3	mg/l, Max	--	79	APHA 23rd Edition (2340 C), 2017
xv Total Alkalinity	mg/l, Max	--	81	APHA 23rd Edition (2120 B), 2017
xvi Copper (as Cu)	mg/l, Max	1.5	< 0.01	IS 3025 (Part 42):1992 RA 2009
xvii Iron (as Fe)	mg/l, Max	50	0.08	APHA-23rd Edition (3500-Fe-B , 3111 B) 2017
xviii Manganese (as Mn)	mg/l, Max	--	< 0.1	IS 3025 (Part 59):2006 RA 2012
xix Selenium (as Se)	mg/l, Max	0.01	< 0.01	IS 3025 (Part 56):2003 RA 2009
xx Total Chromium	mg/l, Max	0.05	< 0.01	IS 3025 (Part 52):2003 RA 2009
xxi Residual Chlorine	mg/l, Max	--	0.33	APHA-23rd Edition (4500-Cl-B) 2017

KALYANI LABORATORIES PVT. LTD.



78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : **801 | 18506C4KLPL/6/19/WATER/00883**



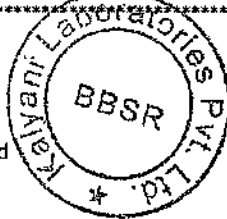
Parameters	Unit	Requirement	Result	Test Method
xxii Aluminum (as Al)	mg/l, Max	--	< 0.01	IS 3025 (Part 55): 2003 RA 2009
xxiii Polynuclear Aromatic Hydrocarbon	mg/l, Max	--	< 0.0001	APHA 6440
PHYSICAL PARAMETER				
i Color	--	300	< 1.0	APHA 23rd Edition (2120 B), 2017
ii pH Value	--	6.5-8.5	7.3	APHA 23rd Edition (4500-H+-B), 2017
iii Odour	--	Unobjectionable	AGREEABLE	APHA 23rd Edition (2120 B), 2017
iv Taste	---	Agreeable	AGREEABLE	IS 3025 (Part 8): 1984, RA 2006
v Turbidity	NTU, Max	--	5.0	IS 3025 (Part 10):1984, RA 2006
TOXIC SUBSTANCES				
i Lead (as Pb)	mg/l, Max	0.1	< 0.01	IS 3025 (Part 47):1994 RA 2009
ii Mercury (as Hg)	mg/l, Max	0.001	< 0.001	IS 3025 (Part 48):1994 RA 2009
iii Arsenic (as As)	mg/l, Max	0.2	< 0.01	IS 3025 (Part 37):1988 RA 2009

Remarks : NIL

Any unusual feature observed during determination : NIL

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

[Signature]
 Authorized Signatory
 For Kalyani Laboratories Pvt. Ltd





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001733F

Test Report No : 802 | 18516C5KLPL/6/19/WATER/00884

Issue Date : 09-Jul-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019

Test Completion On : 21/06/2019

Sample Description : SURFACE WATER

Sample Condition : SEALED IN 1 LTR PET BOTTLE

Sample Identification * : SURFACE WATER

Sampling Date : 12-Jun-2019

Batch No , Lot No : NA

MFG Date : NA

EXP Date : NA

Received Quantity : 1 LTR X 1

Place of Collection : VANSADHARA RIVER NEAR

Sample Collected By : By KLPL

BALABHADRAPUR, 12.06.2019.

Ref.To Sampling Procedure : KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100ml.	5000	70	IS: 1622:1981 RA 2009
ii Faecal Coliform	MPN/100ml.	--	27	IS 1622 : 1981 RA 2009
CHEMICAL PARAMETER				
i Chloride as Cl	mg/l, Max	600	8.9	APHA 23rd Edition (4500-Cl --B), 2017
ii Sulphate as SO4	mg/l, Max	400	20	APHA 23rd Edition (4500-SO4 --E), 2017
iii Nitrate as NO3	mg/l, Max	50	0.6	APHA 23rd Edition (4500-NO3 --E), 2017
iv Temperature	°c	--	28	APHA -----
v Electrical Conductivity	µs/cm	--	126	APHA 23rd Edition (2510 B) 2017
vi Fluoride as F	mg/l, Max	1.5	< 0.05	APHA 23rd Edition (4500-F --D,-C), 2017
vii Total Dissolved Solid	mg/l, Max	1500	100	APHA 23rd Edition (2540 C), 2017
viii Calcium as Ca	mg/l, Max	--	17.6	APHA 23rd Edition (3500-Ca-B), 2017
ix Magnesium as Mg	mg/l, Max	--	12.88	APHA 23rd Edition (3500-Mg-B), 2017
x Chemical Oxygen Demand	mg/l, Max	--	13	APHA 23rd Edition (5220 B), 2017
xi Phosphate	mg/l, Max	--	0.3	APHA 23rd Edition (4500-P-D), 2017
xii Dissolved Oxygen	mg/l, Max	4.0	6.2	APHA 23rd Edition(4500-O-C), 2017
xiii Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	3.0	3.0	APHA 23rd Edition 2012(5210 B), 2017
xiv Total Hardness as CaCO3	mg/l, Max	--	97	APHA 23rd Edition (2340 C), 2017
xv Total Alkalinity	mg/l, Max	--	84	APHA 23rd Edition (2120 B), 2017
xvi Copper (as Cu)	mg/l, Max	1.5	< 0.01	IS 3025 (Part 42):1992 RA 2009
xvii Iron (as Fe)	mg/l, Max	50	0.055	APHA-23rd Edition (3500-Fe-B , 3111 B) 2017
xviii Manganese (as Mn)	mg/l, Max	--	< 0.1	IS 3025 (Part 59):2006 RA 2012
xix Selenium (as Se)	mg/l, Max	0.01	< 0.01	IS 3025 (Part 56):2003 RA 2009
xx Total Chromium	mg/l, Max	--	< 0.01	IS 3025 (Part 52):2003 RA 2009
xxi Residual Chlorine	mg/l, Max	--	0.28	APHA-23rd Edition (4500-Cl-B) 2017



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 802 | 18516C5KLPL/6/19/WATER/00884



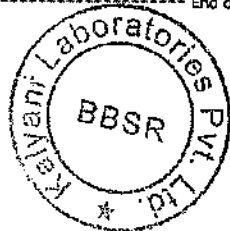
Parameters	Unit	Requirement	Result	Test Method
xxii Aluminum (as Al)	mg/l, Max	--	< 0.01	IS 3025 (Part 55): 2003 RA 2009
xxiii Polynuclear Aromatic Hydrocarbon	mg/l, Max	--	< 0.0001	APHA 6440
PHYSICAL PARAMETER				
i Color	--	300	< 1.0	APHA 23rd Edition (2120 B), 2017
ii pH Value	--	6.5-8.5	7.7	APHA 23rd Edition (4500-H+-B), 2017
iii Odour	--	Unobjectionable	AGREEABLE	APHA 23rd Edition (2120 B), 2017
iv Taste	---	Agreeable	AGREEABLE	IS 3025 (Part 8): 1984, RA 2006
v Turbidity	NTU, Max	--	1.5	IS 3025 (Part 10):1984, RA 2006
TOXIC SUBSTANCES				
i Lead (as Pb)	mg/l, Max	0.1	< 0.01	IS 3025 (Part 47):1994 RA 2009
ii Mercury (as Hg)	mg/l, Max	0.001	< 0.001	IS 3025 (Part 48):1994 RA 2009
iii Arsenic (as As)	mg/l, Max	0.2	< 0.01	IS 3025 (Part 37):1988 RA 2009

Remarks : NIL

Any unusual feature observed during determination : NIL

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


Authorized Signatory
For Kalyani Laboratories Pvt. Ltd





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001730P

Test Report No : 799 | 18366C2KLPL/6/19/WATER/00869

Issue Date : 09-Jul-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019

Test Completion On: 21/06/2019

Sample Description : SURFACE WATER

Sample Condition : SEALED IN 1 LTR PET BOTTLE

Sample Identification * : RIVER WATER

Sampling Date : 12-Jun-2019

Batch No , Lot No : NA

MFG Date : NA

EXP Date : NA

Received Quantity : 1 LTR X 1

Place of Collection : STREAM NEAR RENGOPALI, DT 12.06.2019

Sample Collected By : By KLPL

Ref.To Sampling Procedure:

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100ml.	5000	130	IS: 1622:1981 RA 2009
ii Feacal Coliform	MPN/100ml.	--	60	IS 1622 : 1981 RA 2009
CHEMICAL PARAMETER				
i Chloride as Cl	mg/l, Max	600	3.6	APHA 23rd Edition (4500-Cl - -B), 2017
ii Sulphate as SO4	mg/l, Max	400	2.0	APHA 23rd Edition (4500-So42 - -B), 2017
iii Nitrate as NO3	mg/l, Max	50	0.11	APHA 23rd Edition (4500-NO3 - -E), 2017
iv Temperature	°c	--	28	APHA -----
v Electrical Conductivity	µs/cm	--	40.5	APHA 23rd Edition (2510 B) 2017
vi Fluoride as F	mg/l, Max	1.5	< 0.05	APHA 23rd Edition (4500-F - -D,-C), 2017
vii Total Dissolved Solid	mg/l, Max	1500	32	APHA 23rd Edition (2540 C), 2017
viii Calcium as Ca	mg/l, Max	--	5.3	APHA 23rd Edition (3500-Ca-B), 2017
ix Magnesium as Mg	mg/l, Max	--	3.16	APHA 23rd Edition (3500-Mg-B), 2017
x Chemical Oxygen Demand	mg/l, Max	--	4	APHA 23rd Edition (5220 B), 2017
xi Phosphate	mg/l, Max	--	< 0.1	APHA 23rd Edition (4500-P-D), 2017
xii Dissolved Oxygen	mg/l, Max	4.0	7.1	APHA 23rd Edition(4500-O-C), 2017
xiii Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	3.0	1	APHA 23rd Edition 2012(5210 B), 2017
xiv Total Hardness as CaCO3	mg/l, Max	--	26	APHA 23rd Edition (2340 C), 2017
xv Total Alkalinity	mg/l, Max	--	28	APHA 23rd Edition (2120 B), 2017
xvi Copper (as Cu)	mg/l, Max	1.5	< 0.01	IS 3025 (Part 42):1992 RA 2009
xvii Iron (as Fe)	mg/l, Max	50	0.45	APHA-23rd Edition (3500-Fe-B , 3111 B) 2017
xviii Manganese (as Mn)	mg/l, Max	--	< 0.1	IS 3025 (Part 59):2006 RA 2012
xix Selenium (as Se)	mg/l, Max	0.01	< 0.01	IS 3025 (Part 56):2003 RA 2009
xx Total Chromium	mg/l, Max	--	< 0.01	IS 3025 (Part 52):2003 RA 2009
xxi Residual Chlorine	mg/l, Max	--	0.3	APHA-23rd Edition (4500-Cl-B) 2017

KALYANI LABORATORIES PVT. LTD.



78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 799 | 18366C2KLPL/6/19/WATER/00869



Parameters	Unit	Requirement	Result	Test Method
xxii Aluminum (as Al)	mg/l, Max	--	< 0.01	IS 3025 (Part 55): 2003 RA 2009
xxiii Polynuclear Aromatic Hydrocarbon	mg/l, Max	--	< 0.0001	APHA 6440
PHYSICAL PARAMETER				
i Color	--	300	< 1.0	APHA 23rd Edition (2120 B), 2017
ii pH Value	--	6.5-8.5	7.5	APHA 23rd Edition (4500-H+-B), 2017
iii Odour	--	Unobjectionable	AGREEABLE	APHA 23rd Edition (2120 B), 2017
iv Taste	---	Agreeable	AGREEABLE	IS 3025 (Part 8): 1984, RA 2006
v Turbidity	NTU, Max	--	3.0	IS 3025 (Part 10):1984, RA 2006
TOXIC SUBSTANCES				
i Lead (as Pb)	mg/l, Max	0.1	< 0.01	IS 3025 (Part 47):1994 RA 2009
ii Mercury (as Hg)	mg/l, Max	0.001	< 0.0005	IS 3025 (Part 48):1994 RA 2009
iii Arsenic (as As)	mg/l, Max	0.2	< 0.01	IS 3025 (Part 37):1988 RA 2009

Remarks : -

Any unusual feature observed during determination :

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

[Signature]
 Authorized Signatory
 For Kalyani Laboratories Pvt. Ltd



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



TEST REPORT



NABL ULR NO : TC704319000001772P

Test Report No : 136 | 20266EC KLPL/6/19/ENVN/00192

Issue Date : 11-Jul-2019

Rerefrence : 6600011158 **Date:** 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 26-Jun-2019 **Commenced On** : 26-Jun-2019

Completion On : 27-Jun-2019

Sample Name : NOISE

Sample Condition : --

Quantity : 10 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------

Location & Date : BALABHADRAPUR, 26.06.2019

Noise Level Indl. Area (Day)	dB	55	52.7	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

Noise Level Indl. Area (Night)	dB	45	38.2	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

Location & Date : BASANTA PADA, 27.06.2019

Noise Level Indl. Area (Day)	dB	55	48.6	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

Noise Level Indl. Area (Night)	dB	45	33.9	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

Location & Date : CHH47ATRAPUR, 27.06.2019

Noise Level Indl. Area (Day)	dB	55	47.2	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

Noise Level Indl. Area (Night)	dB	45	35.2	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

Location & Date : HAREKRISHNAPUR, 26.06.2019

Noise Level Indl. Area (Day)	dB	55	51.1	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

Noise Level Indl. Area (Night)	dB	45	37.3	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

Location & Date : KASIBADI, 27.06.2019

Noise Level Indl. Area (Day)	dB	55	48.8	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

Noise Level Indl. Area (Night)	dB	45	35.7	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

Location & Date : LANJIGARH, 26.06.2019

Noise Level Indl. Area (Day)	dB	55	53.5	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

Noise Level Indl. Area (Night)	dB	45	43.1	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

Location & Date : MASKA PADAR, 27.06.2019

Noise Level Indl. Area (Day)	dB	55	49.3	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

Noise Level Indl. Area (Night)	dB	45	39.4	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

Location & Date : NIYAMAGIRI VEDANTA NAGAR, 26.06.2019

Noise Level Indl. Area (Day)	dB	55	53.5	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

Noise Level Indl. Area (Night)	dB	45	39.8	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

Location & Date : PLANT SITE, 26.06.2019

Noise Level Indl. Area (Day)	dB	75	69.2	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

Noise Level Indl. Area (Night)	dB	70	63.1	IS 9989:1981 (RA 2014)
--------------------------------	----	----	------	------------------------

Location & Date : RENGOPALI, 27.06.2019

Noise Level Indl. Area (Day)	dB	55	51.7	IS 9989:1981 (RA 2014)
------------------------------	----	----	------	------------------------

6EC17723354

KLPL- 31835A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001772P

Test Report No : 136 | 20266EC KLPL/7/19/ENVN/00192

Issue Date : 11-Jul-2019

Rerefrence : 06600011158 Date: 16.07.2018

Customer Name : VEDANTA LIMITED

Address : PO.- LANJIGARH, DIST.- KALAHANDI,

Date of receipt : 29-Jun-2019 Commenced On : 26-Jun-2019 Completion On: 27-Jun-2019

Sample Name : NOISE

Sample Condition : --

Quantity : 10 NO.

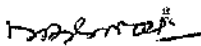
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

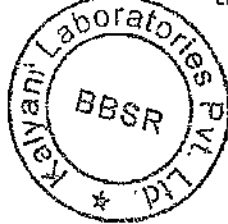
Parameters	Unit	Standard Value	Results	Test Method
Noise Level Indl. Area (Night)	dB	45	33.4	IS 9989:1981 (RA 2014)

Remarks : NIL

Any unusual feature observed during determination : NIL

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


Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



TEST REPORT



NABL ULR NO : TC704319000001715F

Test Report No : 788 | 18286B3KLPL/6/19/WATER/00861 **Issue Date** : 06-Jul-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019 **Test Completion On**: 21/06/2019

Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1 LTR PET BOTTLE

Sample Identification * : GROUND WATER **Sampling Date** : 12-Jun-2019

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

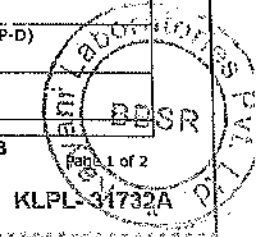
Received Quantity : 1 LTR X1 **Place of Collection** : PLANT SIDE KOTHADWAR DTD : 12.06.2019

Sample Collected By : By KLPL

Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100 ml	Shall not be detected in any 100 ml sample	ABSENT	IS 1622:1981 RA 2009
ii Faecal Coliform	MPN/100ml	Shall not be detected in any 100 ml sample	ABSENT	IS 1622:1981 RA 2009
CHEMICAL PARAMETER				
i Lead (Pb)	mg/l, max	0.01	< 0.005	IS 3025 (Part 47)
ii Arsenic (As)	mg/l, max	0.01	< 0.001	IS 3025 (Part 37):1988, RA 2009
iii Nitrate as NO3	mg/l, Max	45	0.9	IS 3025 (PART 34): 1988 RA 2003
iv Electrical Conductivity	ms/cm	---	0.181	APHA 22nd Edition (02510B), 2012
v Total Hardness as CaCO3	mg/l, Max	200	97	APHA-23rd Edition (2340 C), 2017
vi Calcium (as Ca)	mg/l, Max	75	19.4	IS 3025 (Part 40):1991 RA 2009
vii Chloride (as Cl)	mg/l, Max	250	10.7	IS 3025 (Part 32):1988 RA 2009
viii Copper (as Cu)	mg/l, Max	0.05	< 0.02	IS 3025 (Part 42):1992 RA 2009
ix Fluoride (as F)	mg/l, Max	1	0.1	IS 3025 (Part 60):2008
x Free residual chlorine	mg/l, Min	0.2	0.2	IS 3025 (Part 26):1986 RA 2009
xi Iron (as Fe)	mg/l, Max	1	0.7	IS 3025 (Part 53):2003 RA 2014
xii Magnesium (as Mg)	mg/l, Max	30	11.91	IS 3025 (Part 46):1994 RA 2003
xiii Manganese (as Mn)	mg/l, Max	0.1	< 0.05	IS 3025 (Part 59):2006 RA 2012
xiv Selenium (as Se)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 56):2003 RA 2009
xv Sulphate (as SO4)	mg/l, Max	200	3.0	IS 3025 (Part 24):1986 RA 2009
xvi Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
xvii Aluminum (as Al)	mg/l, Max	0.03	< 0.02	IS 3025 (part-55)
xviii Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	< 0.1	Annex - K OF IS 13428:2005 RA 2009
xix Boron (as B)	mg/l, Max	0.5	< 0.1	Annex H OF IS 13428 : 2005 RA 2009
xx phosphate as (PO4)	mg/l	---	0.07	APHA 22nd Edition (4500-P-D)
xxi Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	< 0.0001	APHA 22nd Edition (6440)

788 | 18286B3



Page 1 of 2
KLPL-31732A

KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



Test Report No : **788 | 18286B3KLPL/6/19/WATER/00861**



Parameters	Unit	Requirement	Result	Test Method
xxii Mercury	mg/l, max	0.001	< 0.0005	IS 3025 (Part 48)
xxiii Total Alkalinity (as HCO ₃)	mg/l, Max	200	118	IS 3025 (Part 23):1986 RA 2009
xxiv TOTAL PESTISIDE	mg/l, max	0.0005	< 0.0001	USEPA
PHYSICAL PARAMETER				
i Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
ii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iii pH value	---	6.5-8.5	6.66	IS 3025 (Part-11):1983, RA 2012
iv Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
v Turbidity	NTU, Max	1	0.3	IS 3025 (Part 10):1984 RA 2006
vi Total dissolved solids	mg/l, Max	500	120	IS 3025 (Part 16):1984 RA 2006
vii Temperature	deg C	--	28	--

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001719F

Test Report No : 792 | 18316B7KLPL/6/19/WATER/00866A **Issue Date** : 06-Jul-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019 **Test Completion On** : 21/06/2019
Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1 LTR PET BOTTLE
Sample Identification * : GROUND WATER **Sampling Date** : 12-Jun-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1 LTR X 1 **Place of Collection** :BATELIMA BOREWELL DT : 12.06.2019
Sample Collected By : By KLPL
Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100 ml	Shall not be detected in any 100 ml sample	ABSENT	IS 1622:1981 RA 2009
ii Faecal Coilform	MPN/100ml	Shall not be detected in any 100 ml sample	ABSENT	IS 1622:1981 RA 2009
CHEMICAL PARAMETER				
i Lead (Pb)	mg/l, max	0.01	< 0.005	IS 3025 (Part 47)
ii Nitrate as NO3	mg/l, Max	45	6.6	IS 3025 (PART 34): 1988 RA 2003
iii Electrical Conductivity	ms/cm	---	0.380	APHA 22nd Edition (02510B), 2012
iv Total Hardness as CaCO3	mg/l, Max	200	172	APHA-23rd Edition (2340 C),2017
v Calcium (as Ca)	mg/l, Max	75	44	IS 3025 (Part 40):1991 RA 2009
vi Chloride (as Cl)	mg/l, Max	250	25.0	IS 3025 (Part 32):1988 RA 2009
vii Copper (as Cu)	mg/l, Max	0.05	< 0.02	IS 3025 (Part 42):1992 RA 2009
viii Fluoride (as F)	mg/l, Max	1	0.45	IS 3025 (Part 60):2008
ix Free residual chlorine	mg/l, Min	0.2	0.3	IS 3025 (Part 26):1986 RA 2009
x Iron (as Fe)	mg/l, Max	1	0.75	IS 3025 (Part 53):2003 RA 2014
xi Magnesium (as Mg)	mg/l, Max	30	15.07	IS 3025 (Part 46):1994 RA 2003
xii Manganese (as Mn)	mg/l, Max	0.1	< 0.05	IS 3025 (Part 59):2006 RA 2012
xiii Selenium (as Se)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 56):2003 RA 2009
xiv Sulphate (as SO4)	mg/l, Max	200	24	IS 3025 (Part 24):1986 RA 2009
xv Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
xvi Aluminum (as Al)	mg/l,Max	0.03	< 0.02	IS 3025 (part-55)
xvii Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	< 0.1	Annex - K OF IS 13428:2005 RA 2009
xviii Boron (as B)	mg/l, Max	0.5	< 0.1	Annex H OF IS 13428 : 2005 RA 2009
xix phosphate as (PO4)	mg/l	---	< 0.1	APHA 22nd Edition (4500-P-D)
xx Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	< 0.0001	APHA 22nd Edition (6440)
xxi Mercury	mg/l, max	0.001	< 0.0005	IS 3025 (Part 48)

KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

Test Report No : 792 | 18316B7KLPL/6/19/WATER/00866A



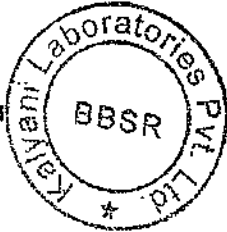
Parameters	Unit	Requirement	Result	Test Method
xxii Total Alkalinity (as HCO ₃)	mg/l, Max	200	140	IS 3025 (Part 23):1986 RA 2009
xxiii TOTAL PESTISIDE	mg/l, max	0.0005	< 0.0001	USEPA
PHYSICAL PARAMETER				
i Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
ii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iii pH value	---	6.5-8.5	7.0	IS 3025 (Part-11):1983, RA 2012
iv Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
v Turbidity	NTU, Max	1	0.3	IS 3025 (Part 10):1984 RA 2006
vi Total dissolved solids	mg/l, Max	500	270	IS 3025 (Part 16):1984 RA 2006
vii Temperature	deg C	--	28	--

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101. ODISHA



TEST REPORT



NABL ULR NO : TC704319000001720F

Test Report No : 793 | 18326B8KLPL/6/19/WATER/00865 **Issue Date** : 06-Jul-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019 **Test Completion On**: 21/06/2019

Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1 LTR PET BOTTLE

Sample Identification * : GROUND WATER

Sampling Date : 12-Jun-2019

Batch No , Lot No : NA

MFG Date : NA

EXP Date : NA

Received Quantity : 1 LTR X 1

Place of Collection : BONDHAGUDA BOREWELL DT : 12.06.2019

Sample Collected By : By KLPL

Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100 ml	Shall not be detected in any 100 ml sample	ABSENT	IS 1622:1981 RA 2009
ii Faecal Coliform	MPN/100ml	Shall not be detected in any 100 ml sample	ABSENT	IS 1622:1981 RA 2009
CHEMICAL PARAMETER				
i Lead (Pb)	mg/l, max	0.01	< 0.005	IS 3025 (Part 47)
ii Arsenic (As)	mg/l, max	0.01	< 0.001	IS 3025 (Part 37):1988,RA 2009
iii Nitrate as NO3	mg/l, Max	45	3.1	IS 3025 (PART 34): 1988 RA 2003
iv Electrical Conductivity	ms/cm	---	0.331	APHA 22nd Edition (Q2510B), 2012
v Total Hardness as CaCO3	mg/l, Max	200	167	APHA-23rd Edition (2340 C),2017
vi Calcium (as Ca)	mg/l, Max	75	29.9	IS 3025 (Part 40):1991 RA 2009
vii Chloride (as Cl)	mg/l, Max	250	26.8	IS 3025 (Part 32):1988 RA 2009
viii Copper (as Cu)	mg/l, Max	0.05	< 0.02	IS 3025 (Part 42):1992 RA 2009
ix Fluoride (as F)	mg/l, Max	1	0.25	IS 3025 (Part 60):2008
x Free residual chlorine	mg/l, Min	0.2	0.2	IS 3025 (Part 26):1986 RA 2009
xi Iron (as Fe)	mg/l, Max	1	< 0.05	IS 3025 (Part 53):2003 RA 2014
xii Magnesium (as Mg)	mg/l, Max	30	22.36	IS 3025 (Part 46):1994 RA 2003
xiii Manganese (as Mn)	mg/l, Max	0.1	< 0.05	IS 3025 (Part 59):2006 RA 2012
xiv Selenium (as Se)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 56):2003 RA 2009
xv Sulphate (as SO4)	mg/l, Max	200	11.0	IS 3025 (Part 24):1986 RA 2009
xvi Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
xvii Aluminum (as Al)	mg/l,Max	0.03	< 0.01	IS 3025 (part-55)
xviii Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	< 0.1	Annex - K OF IS 13428:2005 RA 2009
xix Boron (as B)	mg/l, Max	0.5	< 0.1	Annex H OF IS 13428 : 2005 RA 2009
xx phosphate as (PO4)	mg/l	---	0.10	APHA 22nd Edition (4500-P-D)
xxi Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	< 0.0001	APHA 22nd Edition (6440)

793 | 18326B8

Page 1 of 2

KLPL- 31814A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 793 | 18326B8KLPL/6/19/WATER/00865

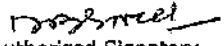


Parameters	Unit	Requirement	Result	Test Method
xxii Mercury	mg/l, max	0.001	< 0.0005	IS 3025 (Part 48)
xxiii Total Alkalinity (as HCO ₃)	mg/l, Max	200	143	IS 3025 (Part 23):1986 RA 2009
xxiv TOTAL PESTISIDE	mg/l, max	0.0005	< 0.0001	USEPA
PHYSICAL PARAMETER				
i Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
ii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iii pH value	---	6.5-8.5	7.0	IS 3025 (Part-11):1983, RA 2012
iv Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
v Turbidity	NTU, Max	1	0.7	IS 3025 (Part 10):1984 RA 2006
vi Total dissolved solids	mg/l, Max	500	170	IS 3025 (Part 16):1984 RA 2006
vii Temperature	deg C	--	28	--

Remarks : NIL

Any unusual feature observed during determination : NIL

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


Authorized Signatory
For Kalyani Laboratories Pvt. Ltd



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000001716P

Test Report No : 789 | 18296B4KLPL/6/19/WATER/00862 **Issue Date** : 06-Jul-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019 **Test Completion On**: 21/06/2019

Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1 LTR PET BOTTLE

Sample Identification * : GROUND WATER **Sampling Date** : 12-Jun-2019

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

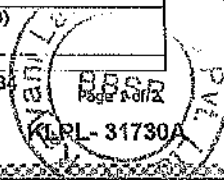
Received Quantity : 1 LTR X 1 **Place of Collection** : LANJIGARH BOREWELL DTD : 12.06.2019

Sample Collected By : By KLPL

Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100 ml	Shall not be detected in any 100 ml sample	ABSENT	IS 1622:1981 RA 2009
ii Faecal Coliform	MPN/100ml	Shall not be detected in any 100 ml sample	ABSENT	IS 1622:1981 RA 2009
CHEMICAL PARAMETER				
i Lead (Pb)	mg/l, max	0.01	< 0.005	IS 3025 (Part 47)
ii Arsenic (As)	mg/l, max	0.01	< 0.001	IS 3025 (Part 37):1988, RA 2009
iii Nitrate as NO3	mg/l, Max	45	5.1	IS 3025 (PART 34): 1988 RA 2003
iv Electrical Conductivity	ms/cm	---	0.602	APHA 22nd Edition (025108), 2012
v Total Hardness as CaCO3	mg/l, Max	200	198	APHA-23rd Edition (2340 C), 2017
vi Calcium (as Ca)	mg/l, Max	75	35.2	IS 3025 (Part 40):1991 RA 2009
vii Chloride (as Cl)	mg/l, Max	250	35.8	IS 3025 (Part 32):1988 RA 2009
viii Copper (as Cu)	mg/l, Max	0.05	< 0.01	IS 3025 (Part 42):1992 RA 2009
ix Fluoride (as F)	mg/l, Max	1	0.08	IS 3025 (Part 60):2008
x Free residual chlorine	mg/l, Min	0.2	0.22	IS 3025 (Part 26):1986 RA 2009
xi Iron (as Fe)	mg/l, Max	1	0.12	IS 3025 (Part 53):2003 RA 2014
xii Magnesium (as Mg)	mg/l, Max	30	26.73	IS 3025 (Part 46):1994 RA 2003
xiii Manganese (as Mn)	mg/l, Max	0.1	< 0.05	IS 3025 (Part 59):2006 RA 2012
xiv Selenium (as Se)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 56):2003 RA 2009
xv Sulphate (as SO4)	mg/l, Max	200	5.0	IS 3025 (Part 24):1986 RA 2009
xvi Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
xvii Aluminum (as Al)	mg/l, Max	0.03	< 0.02	IS 3025 (part-55)
xviii Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	< 0.1	Annex - K OF IS 13428:2005 RA 2009
xix Boron (as B)	mg/l, Max	0.5	< 0.1	Annex H OF IS 13428 : 2005 RA 2009
xx phosphate as (PO4)	mg/l	---	0.12	APHA 22nd Edition (4500-P-D)
xxi Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	< 0.0001	APHA 22nd Edition (6440)

789 | 18296B4





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 789 | 18296B4KLPL/6/19/WATER/00862



Parameters	Unit	Requirement	Result	Test Method
xxii Mercury	mg/l, max	0.001	< 0.0005	IS 3025 (Part 48)
xxiii Total Alkalinity (as HCO3)	mg/l, Max	200	193	IS 3025 (Part 23):1986 RA 2009
xxiv TOTAL PESTISIDE	mg/l, max	0.0005	< 0.0001	ISEPA

PHYSICAL PARAMETER

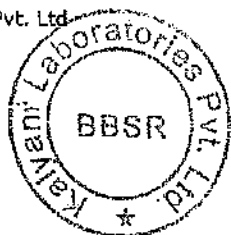
i Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
ii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iii pH value	---	6.5-8.5	7.7	IS 3025 (Part-11):1983, RA 2012
iv Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
v Turbidity	NTU, Max	1	0.8	IS 3025 (Part 10):1984 RA 2006
vi Total dissolved solids	mg/l, Max	500	300	IS 3025 (Part 16):1984 RA 2006
vii Temperature	deg C	--	28	--

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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



KALYANI LABORATORIES PVT. LTD.

78/9-44, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT

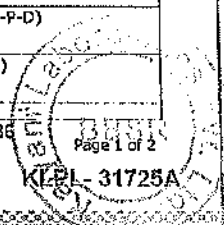


NABL ULR NO : TC704319000001718F
Test Report No : 791 | 18306B6KLPL/6/19/WATER/00863 **Issue Date** : 06-Jul-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019 **Test Completion On**: 21/06/2019
Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1 LTR PET BOTTLE
Sample Identification * : GROUND WATER **Sampling Date** : 12-Jun-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1 LTR X 1 **Place of Collection** : CHHATRAPUR BOREWELL DT : 12.06.2019
Sample Collected By : By KLPL
Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100 ml	Shall not be detected in any 100 ml sample	ABSENT	IS 1622:1981 RA 2009
ii Feecal Coilform	MPN/100ml	Shall not be detected in any 100 ml sample	ABSENT	IS 1622:1981 RA 2009
CHEMICAL PARAMETER				
i Lead (Pb)	mg/l, max	0.01	< 0.005	IS 3025 (Part 47)
ii Arsenic (As)	mg/l, max	0.01	< 0.001	IS 3025 (Part 37):1988,RA 2009
iii Nitrate as NO3	mg/l, Max	45	3.0	IS 3025 (PART 34): 1988 RA 2003
iv Electrical Conductivity	ms/cm	---	0.454	APHA 22nd Edition (02510B), 2012
v Total Hardness as CaCO3	mg/l, Max	200	199	APHA-23rd Edition (2340 C),2017
vi Calcium (as Ca)	mg/l, Max	75	47.5	IS 3025 (Part 40):1991 RA 2009
vii Chloride (as Cl)	mg/l, Max	250	17.9	IS 3025 (Part 32):1988 RA 2009
viii Copper (as Cu)	mg/l, Max	0.05	< 0.02	IS 3025 (Part 42):1992 RA 2009
ix Fluoride (as F)	mg/l, Max	1	0.33	IS 3025 (Part 60):2008
x Free residual chlorine	mg/l, Min	0.2	0.2	IS 3025 (Part 26):1986 RA 2009
xi Iron (as Fe)	mg/l, Max	1	< 0.05	IS 3025 (Part 53):2003 RA 2014
xii Magnesium (as Mg)	mg/l, Max	30	17.01	IS 3025 (Part 46):1994 RA 2003
xiii Manganese (as Mn)	mg/l, Max	0.1	< 0.05	IS 3025 (Part 59):2006 RA 2012
xiv Selenium (as Se)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 56):2003 RA 2009
xv Sulphate (as SO4)	mg/l, Max	200	4.0	IS 3025 (Part 24):1986 RA 2009
xvi Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
xvii Aluminum (as Al)	mg/l,Max	0.03	< 0.02	IS 3025 (part-55)
xviii Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	< 0.1	Annex - K OF IS 13428:2005 RA 2009
xix Boron (as B)	mg/l, Max	0.5	< 0.1	Annex H OF IS 13428 : 2005 RA 2009
xx phosphate as (PO4)	mg/l	---	< 0.1	APHA 22nd Edition (4500-P-D)
xxi Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	< 0.0001	APHA 22nd Edition (6440)

791 | 18306B6





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 791 | 18306B6KLPL/6/19/WATER/00863



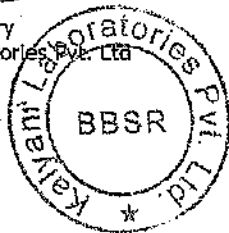
Parameters	Unit	Requirement	Result	Test Method
xxii Mercury	mg/l, max	0.001	< 0.0005	IS 3025 (Part 48)
xxiii Total Alkalinity (as HCO ₃)	mg/l, Max	200	182	IS 3025 (Part 23):1986 RA 2009
xxiv TOTAL PESTISIDE	mg/l, max	0.0005	< 0.0001	USEPA
PHYSICAL PARAMETER				
i Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
ii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iii pH value	---	6.5-8.5	7.5	IS 3025 (Part-11):1983, RA 2012
iv Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
v Turbidity	NTU, Max	1	0.4	IS 3025 (Part 10):1984 RA 2006
vi Total dissolved solids	mg/l, Max	500	250	IS 3025 (Part 16):1984 RA 2006
vii Temperature	deg C		28	

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000001719F

Test Report No : 792 | 18316B7KLPL/6/19/WATER/00864 **Issue Date** : 06-Jul-2019
Reference : 5600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019 **Test Completion On**: 21/06/2019
Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1 LTR PET BOTTLE
Sample Identification * : GROUND WATER **Sampling Date** : 12-Jun-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1 LTR X 1 **Place of Collection** : CHENALIMA BOREWELL DT : 12.06.2019
Sample Collected By : By KLPL
Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100 ml	Shall not be detected in any 100 ml sample	ABSENT	IS 1622:1981 RA 2009
ii Faecal Coliform	MPN/100ml	Shall not be detected in any 100 ml sample	ABSENT	IS 1622:1981 RA 2009
CHEMICAL PARAMETER				
i Lead (Pb)	mg/l, max	0.01	< 0.005	IS 3025 (Part 47)
ii Nitrate as NO3	mg/l, Max	45	0.85	IS 3025 (PART 34): 1988 RA 2003
iii Electrical Conductivity	ms/cm	---	0.110	APHA 22nd Edition (02510E), 2012
iv Total Hardness as CaCO3	mg/l, Max	200	66	APHA-23rd Edition (2340 C), 2017
v Calcium (as Ca)	mg/l, Max	75	10.6	IS 3025 (Part 40):1991 RA 2009
vi Chloride (as Cl)	mg/l, Max	250	12.5	IS 3025 (Part 32):1988 RA 2009
vii Copper (as Cu)	mg/l, Max	0.05	< 0.02	IS 3025 (Part 42):1992 RA 2009
viii Fluoride (as F)	mg/l, Max	1	< 0.05	IS 3025 (Part 60):2008
ix Free residual chlorine	mg/l, Min	0.2	0.2	IS 3025 (Part 26):1986 RA 2009
x Iron (as Fe)	mg/l, Max	1	0.65	IS 3025 (Part 53):2003 RA 2014
xi Magnesium (as Mg)	mg/l, Max	30	9.72	IS 3025 (Part 46):1994 RA 2003
xii Manganese (as Mn)	mg/l, Max	0.1	< 0.05	IS 3025 (Part 59):2006 RA 2012
xiii Selenium (as Se)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 56):2003 RA 2009
xiv Sulphate (as SO4)	mg/l, Max	200	< 1.0	IS 3025 (Part 24):1986 RA 2009
xv Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
xvi Aluminum (as Al)	mg/l, Max	0.03	< 0.02	IS 3025 (part-55)
xvii Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	< 0.1	Annex - K OF IS 13428:2005 RA 2009
xviii Boron (as B)	mg/l, Max	0.5	< 0.1	Annex H OF IS 13428 : 2005 RA 2009
xix phosphate as (PO4)	mg/l	---	0.12	APHA 22nd Edition (4500-P-D)
xx Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	< 0.0001	APHA 22nd Edition (6440)
xxi Mercury	mg/l, max	0.001	< 0.0005	IS 3025 (Part 46)

792 | 18316B7

Page 1 of 2

KLPL- 31825A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 792 | 18316B7KLPL/6/19/WATER/00864



Parameters	Unit	Requirement	Result	Test Method
xxii Total Alkalinity (as HCO ₃)	mg/l, Max	200	53	IS 3025 (Part 23):1986 RA 2009
xxiii TOTAL PESTISIDE	mg/l, max	0.0005	< 0.0001	USEPA
PHYSICAL PARAMETER				
i Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
ii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iii pH value	---	6.5-8.5	6.8	IS 3025 (Part-11):1983, RA 2012
iv Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
v Turbidity	NTU, Max	1	0.8	IS 3025 (Part 10):1984 RA 2006
vi Total dissolved solids	mg/l, Max	500	74	IS 3025 (Part 16):1984 RA 2006
vii Temperature	deg C	--	28	--

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



TEST REPORT



NABL ULR NO : TC70431900001717F

Test Report No : 790 | 18336BSKLPL/6/19/WATER/00866 **Issue Date** : 06-Jul-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019 **Test Completion On**: 21/06/2019

Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1 LTR PET BOTTLE

Sample Identification * : GROUND WATER **Sampling Date** : 12-Jun-2019

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

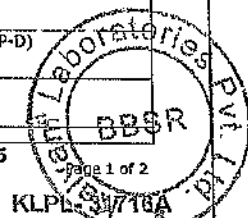
Received Quantity : 1 LTR X 1 **Place of Collection** : RENGOPALLI BOREWELL DT : 12.06.2019

Sample Collected By : By KLPL

Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100 ml	Shall not be detected in any 100 ml sample	ABSENT	IS 1622:1981 RA 2009
ii Faecal Coliform	MPN/100ml	Shall not be detected in any 100 ml sample	ABSENT	IS 1622:1981 RA 2009
CHEMICAL PARAMETER				
i Lead (Pb)	mg/l, max	0.01	< 0.005	IS 3025 (Part 47)
ii Arsenic (As)	mg/l, max	0.01	< 0.001	IS 3025 (Part 37):1988, RA 2009
iii Nitrate as NO3	mg/l, Max	45	0.9	IS 3025 (PART 34): 1988 RA 2003
iv Electrical Conductivity	ms/cm	---	0.226	APHA 22nd Edition (025106), 2012
v Total Hardness as CaCO3	mg/l, Max	200	136	APHA-23rd Edition (2340 C), 2017
vi Calcium (as Ca)	mg/l, Max	75	26.4	IS 3025 (Part 40):1991 RA 2009
vii Chloride (as Cl)	mg/l, Max	250	14.3	IS 3025 (Part 32):1988 RA 2009
viii Copper (as Cu)	mg/l, Max	0.05	< 0.02	IS 3025 (Part 42):1992 RA 2009
ix Fluoride (as F)	mg/l, Max	1	0.09	IS 3025 (Part 60):2008
x Free residual chlorine	mg/l, Min	0.2	0.25	IS 3025 (Part 26):1986 RA 2009
xi Iron (as Fe)	mg/l, Max	1	< 0.05	IS 3025 (Part 53):2003 RA 2014
xii Magnesium (as Mg)	mg/l, Max	30	17.01	IS 3025 (Part 46):1994 RA 2003
xiii Manganese (as Mn)	mg/l, Max	0.1	< 0.05	IS 3025 (Part 59):2006 RA 2012
xiv Selenium (as Se)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 56):2003 RA 2009
xv Sulphate (as SO4)	mg/l, Max	200	2.0	IS 3025 (Part 24):1986 RA 2009
xvi Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
xvii Aluminum (as Al)	mg/l, Max	0.03	< 0.02	IS 3025 (part-55)
xviii Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	< 0.1	Annex - K OF IS 13428:2005 RA 2009
xlx Boron (as B)	mg/l, Max	0.5	< 0.1	Annex H OF IS 13428 : 2005 RA 2009
xx phosphate as (PO4)	mg/l	---	0.09	APHA 22nd Edition (4500-P-D)
xxi Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	< 0.0001	APHA 22nd Edition (6440)

790 | 18336B5



KLPL-31718A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 790 | 18336B5KLPL/6/19/WATER/00866



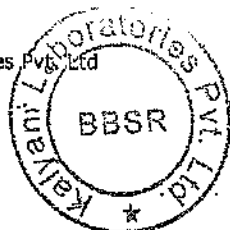
Parameters	Unit	Requirement	Result	Test Method
xxii Mercury	mg/l, max	0.001	< 0.0005	IS 3025 (Part 48)
xxiii Total Alkalinity (as HCO ₃)	mg/l, Max	200	109	IS 3025 (Part 23):1986 RA 2009
xxiv TOTAL PESTISIDE	mg/l, max	0.0005	< 0.0001	USEPA
PHYSICAL PARAMETER				
i Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
ii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iii pH value	---	6.5-8.5	6.9	IS 3025 (Part-11):1983, RA 2012
iv Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
v Turbidity	NTU, Max	1	0.3	IS 3025 (Part 10):1984 RA 2006
vi Total dissolved solids	mg/l, Max	500	140	IS 3025 (Part 16):1984 RA 2006
vii Temperature	deg C	--	28	—

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001701F

Test Report No : 774 | 18386A5KLPL/6/19/WATER/00871

Issue Date : 06-Jul-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 14-Jun-2019 Test Commenced On : 14-Jun-2019

Test Completion On: 21/06/2019

Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1 LTR PET BOTTLE

Sample Identification * : GROUND WATER

Sampling Date : 12-Jun-2019

Batch No , Lot No : NA

MFG Date : NA

EXP Date : NA

Received Quantity : 1 LTR X 1

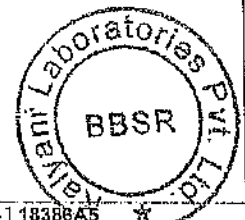
Place of Collection : OBSERVATION BOREWELL RED MUD POND(WEST)

Sample Collected By : By KLPL

DT : 12.06.2019

Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
CHEMICAL PARAMETER				
i Total Hardness as CaCO ₃	mg/l, Max	200	194	APHA-23rd Edition (2340 C), 2017
ii Total alkalinity (as CaCO ₃),	mg/l, Max	200	190	IS 3025 (Part 23):1986 RA 2009
iii Zinc (as Zn)	mg/l, Max	5	0.036	IS 3025 (Part 49):1994 RA 2009
iv Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
v Aluminum (as Al)	mg/l,Max	0.03	< 0.02	IS 3025 (part-55)
PHYSICAL PARAMETER				
i Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
ii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iii pH value	---	6.5-8.5	6.5	IS 3025 (Part-11):1983, RA 2012
iv Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
RADIOACTIVITY SUBSTANCES				
i Alpha-Emitters	Bq/l, Max	0.1	< 0.004	IS 14194 (Part-2):2013
ii Beta-Emitters	Bq/l, Max	1.0	< 0.02	IS 14194 (Part-1):2013
TOXIC SUBSTANCES				
i Cadmium (as Cd)	mg/l, Max	0.003	< 0.001	IS 3025 (Part 41):1992 RA 2009
ii Cyanide (as CN)	mg/l, Max	0.05	< 0.01	IS 3025 (Part 27):1986 RA 2009
iii Lead (as Pb)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 47):1994 RA 2009
iv Mercury (as Hg)	mg/l, Max	0.001	< 0.0005	IS 3025 (Part 48):1994 RA 2009
v Total arsenic (as As)	mg/l, Max	0.01	< 0.001	IS 3025 (Part 37):1988 RA 2009
vi Nickel (as Ni)	mg/l, Max	0.02	< 0.01	IS 3025 (Part 54): 2003 RA 2009



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



Test Report No : 774 | 18386A5KLPL/6/19/WATER/00871



Parameters	Unit	Requirement	Result	Test Method
------------	------	-------------	--------	-------------

Remarks : NIL

Any unusual feature observed during determination : NIL

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

[Handwritten Signature]

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



TEST REPORT



NABL ULR NO : TC704319000001707P

Test Report No : 780 | 18446ABKLPL/6/19/WATER/00877 **Issue Date** : 06-Jul-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019 **Test Completion On**: 21/06/2019

Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1 LTR PET BOTTLE

Sample Identification * : GROUND WATER **Sampling Date** : 12-Jun-2019

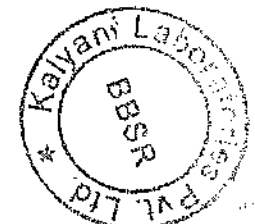
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA

Received Quantity : NA **Place of Collection** : OBSERVATION BOREWELL ASHPOND (NORTH) DT : 12.06.2019

Sample Collected By : By KLPL

Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
CHEMICAL PARAMETER				
i Total Hardness as CaCO3	mg/l, Max	200	185	APHA-23rd Edition (2340 C),2017
ii Zinc (as Zn)	mg/l, Max	5	0.032	IS 3025 (Part 49):1994 RA 2009
iii Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
iv Aluminum (as Al)	mg/l,Max	0.03	< 0.02	IS 3025 (part-55)
v Total Alkalinity (as HCO3)	mg/l, Max	200	188	IS 3025 (Part 23):1986 RA 2009
PHYSICAL PARAMETER				
i Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
ii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iii pH value	---	6.5-8.5	6.7	IS 3025 (Part-11):1983, RA 2012
iv Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
RADIOACTIVITY SUBSTANCES				
i Alpha-Emitters	Bq/l, Max	0.1	< 0.004	IS 14194 (Part-2):2013
ii Beta-Emitters	Bq/l, Max	1.0	< 0.02	IS 14194 (Part-1):2013
TOXIC SUBSTANCES				
i Cadmium (as Cd)	mg/l, Max	0.003	< 0.001	IS 3025 (Part 41):1992 RA 2009
ii Cyanide (as CN)	mg/l, Max	0.05	< 0.01	IS 3025 (Part 27):1986 RA 2009
iii Lead (as Pb)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 47):1994 RA 2009
iv Mercury (as Hg)	mg/l, Max	0.001	< 0.0005	IS 3025 (Part 48):1994 RA 2009
v Total arsenic (as As)	mg/l, Max	0.01	< 0.001	IS 3025 (Part 37):1988 RA 2009
vi Nickel (as Ni)	mg/l, Max	0.02	< 0.01	IS 3025 (Part 54): 2003 RA 2009



780 | 18446AB

Page 1 of 2

KLPL- 31758A

KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101. ODISHA



Test Report No : 780 | 18446ABKLPL/6/19/WATER/00877



Parameters	Unit	Requirement	Result	Test Method
------------	------	-------------	--------	-------------

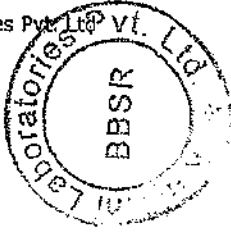
Remarks : NIL

Any unusual feature observed during determination : NIL

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

[Handwritten Signature]

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



4
4
6
4
4

KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



TEST REPORT



NABL ULR NO : TC704319000001703F

Test Report No : 776 | 18406A7KLPL/6/19/WATER/00873 **Issue Date** : 06-Jul-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 14-Jun-2019 **Test Commenced On** : 14-Jun-2019 **Test Completion On** : 21/06/2019

Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1 LTR PET BOTTLE

Sample Identification * : **GROUND WATER** **Sampling Date** : 12-Jun-2019

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

Received Quantity : 1 LTR X 1 **Place of Collection** : OBSERVATION BOREWELL PROCESSWATER LAKE (NORTH) DT : 12.06.2019

Sample Collected By : By KLPL

Ref.To Sampling Procedure : KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
CHEMICAL PARAMETER				
i Total Hardness as CaCO ₃	mg/l, Max	200	48	APHA-23rd Edition (2340 C),2017
ii Zinc (as Zn)	mg/l, Max	5	0.011	IS 3025 (Part 49):1994 RA 2009
iii Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
iv Aluminum (as Al)	mg/l,Max	0.03	< 0.02	IS 3025 (part-55)
v Total Alkalinity (as HCO ₃)	mg/l, Max	200	45	IS 3025 (Part 23):1986 RA 2009
PHYSICAL PARAMETER				
i Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
ii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iii pH value	---	6.5-8.5	6.5	IS 3025 (Part-11):1983, RA 2012
iv Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
RADIOACTIVITY SUBSTANCES				
i Alpha-Emitters	Bq/l, Max	0.1	< 0.004	IS 14194 (Part-2):2013
ii Beta-Emitters	Bq/l, Max	1.0	< 0.02	IS 14194 (Part-1):2013
TOXIC SUBSTANCES				
i Cadmium (as Cd)	mg/l, Max	0.003	< 0.001	IS 3025 (Part 41):1992 RA 2009
ii Cyanide (as CN)	mg/l, Max	0.05	< 0.01	IS 3025 (Part 27):1986 RA 2009
iii Lead (as Pb)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 47):1994 RA 2009
iv Mercury (as Hg)	mg/l, Max	0.001	< 0.0005	IS 3025 (Part 48):1994 RA 2009
v Total arsenic (as As)	mg/l, Max	0.01	< 0.001	IS 3025 (Part 37):1988 RA 2009
vi Nickel (as Ni)	mg/l, Max	0.02	< 0.01	IS 3025 (Part 54): 2003 RA 2009



776 | 18406A7



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 776 | 18406A7KLPL/6/19/WATER/00873



Parameters	Unit	Requirement	Result	Test Method
------------	------	-------------	--------	-------------

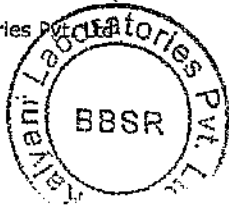
Remarks : NIL

Any unusual feature observed during determination : NIL

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

[Handwritten Signature]

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT

NABL ULR NO : TC704319000001208P



Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/001

Issue Date : 16-May-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 08-Apr-2019

Commenced On : 08-Apr-2019

Completion On: 13-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : PLANT SITE , 01.04.2019				
Sulphur Dioxide	µg/m ³	80	12.36	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	24.28	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	82.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	52.41	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.59	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	12.6	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	6.1	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

[Signature]

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



4B812082270

KLPL- 30612A Page 1 of 1



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/002

Issue Date : 16-May-2019

Rereference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 08-Apr-2019 Commenced On : 08-Apr-2019

Completion On: 13-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

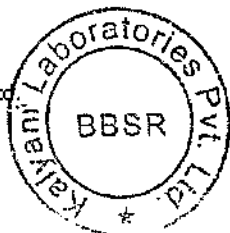
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : Chhatrapur Village, 02.04.2019				
Sulphur Dioxide	µg/m ³	80	8.17	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	16.05	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	64.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	42.38	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.49	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.8	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



4B812082270
KLPL- 30611A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101. ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/003

Issue Date : 16-May-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 08-Apr-2019

Commenced On : 08-Apr-2019

Completion On: 13-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : MID DAY MEAL, 03.04.2019				
Sulphur Dioxide	µg/m ³	80	10.13	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	22.28	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	72.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	46.42	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.68	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.2	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



4B812082270

KLPL- 30523A

Page 1 of 1



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT

NABL ULR NO : TC704319000001208P



Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/004 Issue Date : 16-May-2019
 Rerefrence : 6600011158 DATE: 16.07.2018
 Customer Name : VEDANTA LIMITED , LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 08-Apr-2019 Commenced On : 08-Apr-2019 Completion On: 13-Apr-2019

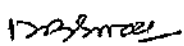
Sample Name : AMBIENT AIR QUALITY MONITORING
 Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
 Quantity : 1 NO.
 Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 04.04.2019				
Sulphur Dioxide	µg/m ³	80	11.49	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	23.37	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	73.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	43.11	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.52	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.4	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 1408488 KLPL/4/19/ENVN/005 **Issue Date** : 16-May-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 08-Apr-2019 **Commenced On** : 08-Apr-2019 **Completion On:** 13-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

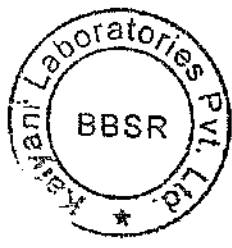
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : REHABILITATION COLONY, 05.04.2019				
Sulphur Dioxide	µg/m ³	80	9.40	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	20.46	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	77.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	50.21	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.83	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.5	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT

NABL ULR NO : TC704319000001208P

Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/006 **Issue Date** : 16-May-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 08-Apr-2019 **Commenced On** : 08-Apr-2019 **Completion On:** 13-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref. To Sampling Procedure: KLPL/SOP/AIR-06

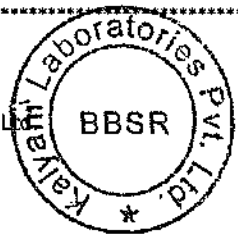
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : BELAMBA VILLAGE, 06.04.2019				
Sulphur Dioxide	µg/m ³	80	6.48	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	18.30	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	68.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	42.38	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.47	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.6	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT

NABL ULR NO : TC704319000001208P

Test Report No : 62 | 1408488 KLPL/4/19/ENVN/008

Issue Date : 16-May-2019

Rereference : 6600011158 DATE: 16.07.2018

Customer Name : YEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 15-Apr-2019

Commenced On : 15-Apr-2019

Completion On: 20-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : Chhatrapur Village, 09.04.2019				
Sulphur Dioxide	µg/m ³	80	7.20	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	17.28	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	67.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	43.49	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.51	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

Authorised Signatory
For Kalyani Laboratories Pvt.



4B812082270

KLPL- 30518A

Page 1 of 1

KALYANI LABORATORIES PVT. LTD.



78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT

NABL ULR NO : TC704319000001208P



Test Report No : 62 | 1408488 KLPL/4/19/ENVN/007

Issue Date : 16-May-2019

Rereference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 15-Apr-2019 Commenced On : 15-Apr-2019

Completion On: 20-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

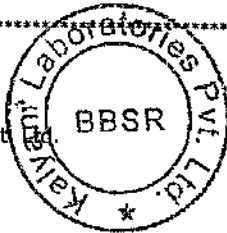
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : PLANT SITE , 08.04.2019				
Sulphur Dioxide	µg/m ³	80	11.39	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	25.17	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	85.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	55.33	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.62	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	12.9	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	6.3	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT

NABL ULR NO : TC704319000001208P

Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/009 **Issue Date** : 16-May-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 15-Apr-2019 **Commenced On** : 15-Apr-2019 **Completion On:** 20-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

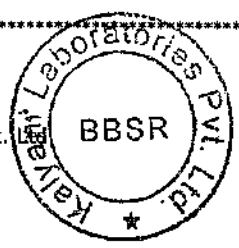
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : MID DAY MEAL, 10.04.2019				
Sulphur Dioxide	µg/m ³	80	9.44	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	23.37	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	73.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	47.42	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.70	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.3	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

D. B. S. S. S.
Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

Kalyani Laboratories

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT

NABL ULR NO : TC704319000001208P



Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/010

Issue Date : 16-May-2019

Rerference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 15-Apr-2019 Commenced On : 15-Apr-2019

Completion On: 20-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

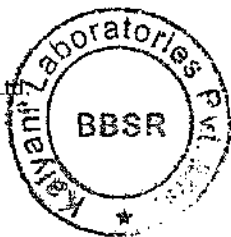
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : REHABILITATION COLONY, 12.04.2019				
Sulphur Dioxide	µg/m ³	80	10.08	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	21.37	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	76.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	48.47	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.81	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.4	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (NI)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



4B812082270

KLPL- 30516A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/011 **Issue Date** : 16-May-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 15-Apr-2019 **Commenced On** : 15-Apr-2019 **Completion On**: 20-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

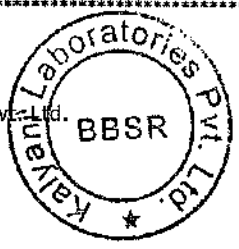
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : BELAMBA VILLAGE, 13.04.2019				
Sulphur Dioxide	µg/m ³	80	7.42	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	20.24	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	69.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	43.30	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.49	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.7	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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



4B812082270
 KLPL- 30515A1



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101. ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 1408488 KLPL/4/19/ENVN/012 Issue Date : 16-May-2019
 Rerefrence : 6600011158 DATE: 16.07.2018
 Customer Name : VEDANTA LIMITED , LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 22-Apr-2019 Commenced On : 22-Apr-2019 Completion On: 27-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING
 Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
 Quantity : 1 NO.
 Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : PLANT SITE , 15.04.2019				
Sulphur Dioxide	µg/m ³	80	13.26	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	27.22	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	84.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	54.40	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.61	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	12.8	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (NI)	ng/m ³	20	6.2	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



4B812082270

KLPL- 30514A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/013 **Issue Date** : 16-May-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 22-Apr-2019 **Commenced On** : 22-Apr-2019 **Completion On**: 27-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : Chhatrapur Village, 16.04.2019				
Sulphur Dioxide	µg/m ³	80	8.14	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	15.18	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	68.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	41.11	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.52	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	4.1	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

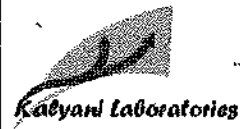
Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101. ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 1408488 KLPL/4/19/ENVN/014

Issue Date : 16-May-2019

Rereference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 22-Apr-2019

Commenced On : 22-Apr-2019

Completion On : 27-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : MID DAY MEAL, 17.04.2019				
Sulphur Dioxide	µg/m ³	80	11.23	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	21.23	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	74.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	48.26	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.72	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.5	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt.



4B812082270

KLPL- 30512A of 1

KALYANI LABORATORIES PVT. LTD.



78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 1408488 KLPL/4/19/ENVN/015

Issue Date : 16-May-2019

Rereference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 22-Apr-2019

Commenced On : 22-Apr-2019

Completion On: 27-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

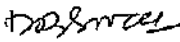
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 18.04.2019				
Sulphur Dioxide	µg/m ³	80	13.40	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	24.35	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	71.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	46.22	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.54	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.6	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Authorised Signatory
 For Kalyani Laboratories Pvt.



4B812082270

KLPL- 30511A, 1



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/016 **Issue Date** : 16-May-2019

Rerefrence : 6600011158 **DATE**: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 22-Apr-2019 **Commenced On** : 22-Apr-2019 **Completion On**: 27-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

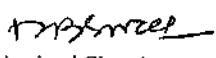
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : REHABILITATION COLONY, 19.04.2019				
Sulphur Dioxide	µg/m ³	80	9.03	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	22.66	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	73.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	47.42	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide.(CO) (01 Hrs.)	mg/m ³	04	0.81	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.4	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 1408488 KLPL/4/19/ENVN/017

Issue Date : 16-May-2019

Reference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 22-Apr-2019 Commenced On : 22-Apr-2019

Completion On: 27-Apr-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------

Location & Date : BELAMBA VILLAGE, 20.04.2019

Sulphur Dioxide	µg/m ³	80	8.35	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	19.27	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	70.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	44.06	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.50	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.9	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



48812082270

KLPL- 30621A/1

KALYANI LABORATORIES PVT. LTD.



78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/018 **Issue Date** : 16-May-2019

Rereference : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 29-Apr-2019 **Commenced On** : 29-Apr-2019 **Completion On:** 02-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : PLANT SITE , 22.04.2019				
Sulphur Dioxide	µg/m ³	80	14.26	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	30.07	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	88.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	57.28	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.66	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	13.1	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	ng/m ³	20	6.6	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 29-Apr-2019

Commenced On : 29-Apr-2019

Issue Date : 16-May-2019

Completion On : 02-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

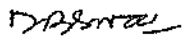
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

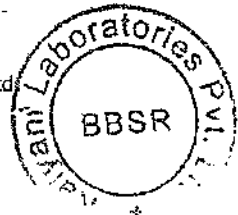
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : Chhatrapur Village, 23.04.2019				
Sulphur Dioxide	µg/m ³	80	9.19	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	18.04	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	70.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	44.26	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.53	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	4.1	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



4B812082270

KLPL- 30514A of 1



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/020 Issue Date : 16-May-2019
 Rerefrence : 6600011158 DATE: 16.07.2018
 Customer Name : VEDANTA LIMITED , LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 22-Apr-2019 Commenced On : 22-Apr-2019 Completion On: 02-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING
 Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
 Quantity : 1 NO.
 Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : MID DAY MEAL, 24.04.2019				
Sulphur Dioxide	µg/m ³	80	12.12	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	22.28	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	72.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	46.42	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.69	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.3	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/021

Issue Date : 16-May-2019

Rereference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 29-Apr-2019 Commenced On : 29-Apr-2019

Completion On: 02-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

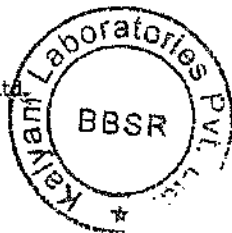
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 25.04.2019				
Sulphur Dioxide	µg/m ³	80	9.16	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	25.43	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	75.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	47.22	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.56	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.8	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



4B812082270

KLPL- 30525A/1



KALYANI LABORATORIES PVT. LTD.

78/9-44, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT

NABL ULR NO : TC704319000001208P



Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/022

Issue Date : 16-May-2019

Rereference : 6500011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 29-Apr-2019 Commenced On : 29-Apr-2019

Completion On: 02-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : REHABILITATION COLONY, 26.04.2019				
Sulphur Dioxide	µg/m ³	80	10.35	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	21.14	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	78.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	52.18	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.85	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.7	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



4B812082270

KLPL- 30534A/1



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT

NABL ULR NO : TC704319000001208P



Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/023 **Issue Date** : 16-May-2019
Rereference : 6600011158 **DATE:** 16.07.2018
Customer Name : VEDANTA LIMITED , LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 29-Apr-2019 **Commenced On** : 29-Apr-2019 **Completion On**: 02-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO.
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : BELAMBA VILLAGE, 27.04.2019				
Sulphur Dioxide	µg/m ³	80	7.17	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	20.34	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	71.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	43.49	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.49	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.8	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL
Any unusual feature observed during determination : NIL

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

[Signature]
 Authorised Signatory
 For Kalyani Laboratories Pvt.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001208P

Test Report No : 62 | 14084B8 KLPL/4/19/ENVN/024

Issue Date : 16-May-2019

Rereference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 02-May-2019 Commenced On : 02-May-2019 Completion On: 06-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 29.04.2019				
Sulphur Dioxide	µg/m ³	80	11.23	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	24.09	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	74.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	46.22	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.57	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.9	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt.



4B812082270

KLPL- 30532A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/001

Issue Date : 04-Jun-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 06-May-2019 **Commenced On** : 06-May-2019

Completion On : 11-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : -LANJIGARH VILLAGE ,02.05.2019				
Sulphur Dioxide	µg/m ³	80	9.16	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	22.30	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	75.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	46.42	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.54	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.6	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/002

Issue Date : 04-Jun-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 06-May-2019 **Commenced On** : 06-May-2019

Completion On : 11-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------

Location & Date : - REHABILITATION COLONY, 03.05.2019

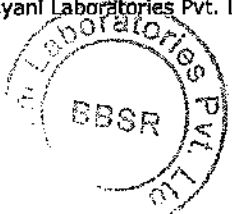
Sulphur Dioxide	µg/m ³	80	10.20	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	20.04	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	80.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	49.12	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.86	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	5.7	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

D. B. S. R.
Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



54913532511
KLPL- 31171A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/003 **Issue Date** : 04-Jun-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 06-May-2019 **Commenced On** : 06-May-2019 **Completion On**: 11-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

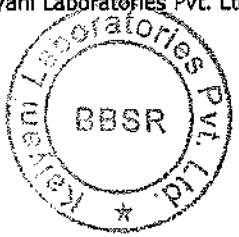
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - BELAMBA VILLAGE, 04.05.2019				
Sulphur Dioxide	µg/m ³	80	7.10	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	17.22	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	70.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	44.26	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.49	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.8	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (NI)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/004 **Issue Date** : 04-Jun-2019
Rerefrence : 6600011158 **DATE:** 16.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 13-May-2019 **Commenced On** : 13-May-2019 **Completion On:** 18-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------

Location & Date : - plant site ,06.05.2019

Sulphur Dioxide	µg/m ³	80	12.31	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	26.19	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	86.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	51.29	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.63	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	12.9	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	6.3	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

D. B. S. M. S.
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/005 **Issue Date** : 04-Jun-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 13-May-2019 **Commenced On** : 13-May-2019 **Completion On**: 18-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------

Location & Date : - Chhatrapur Village, 07.05.2019

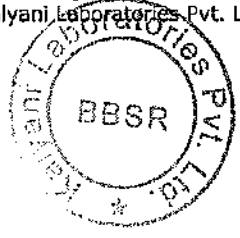
Sulphur Dioxide	µg/m ³	80	7.29	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	14.32	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	72.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	43.30	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.53	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	4.1	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/006

Issue Date : 04-Jun-2019

Rereference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 13-May-2019

Commenced On : 13-May-2019

Completion On: 18-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - MID DAY MEAL, 08.05.2019				
Sulphur Dioxide	µg/m ³	80	9.40	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	20.46	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	77.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	47.22	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.70	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.4	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



54913532511

KLPL- 31167A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/007

Issue Date : 04-Jun-2019

Rereference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 13-May-2019

Commenced On : 13-May-2019

Completion On : 18-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

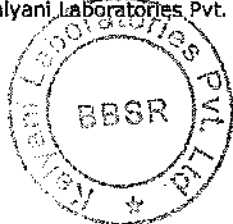
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - LANJIGARH VILLAGE, 09.05.2019				
Sulphur Dioxide	µg/m ³	80	11.18	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	21.14	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	78.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	48.16	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.56	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.8	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/008

Issue Date : 04-Jun-2019

Rereference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 13-May-2019

Commenced On : 13-May-2019

Completion On : 18-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

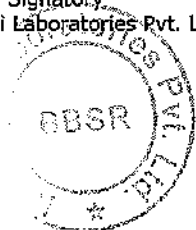
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - REHABILITATION COLONY, 10.05.2019				
Sulphur Dioxide	µg/m ³	80	9.28	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	22.18	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	76.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	50.43	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.85	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.6	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



54913532511
KLPL- 31177A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/009

Issue Date : 04-Jun-2019

Rereference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 13-May-2019

Commenced On : 13-May-2019

Completion On : 18-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - BELAMBA VILLAGE, 11.05.2019				
Sulphur Dioxide	µg/m ³	80	8.36	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	19.17	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	71.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	46.03	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.50	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.9	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

M. S. Patel
Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



54913532511
KLPL- 31176A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/010

Issue Date : 04-Jun-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 20-May-2019

Commenced On : 20-May-2019

Completion On : 25-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - plant site ,13.05.2019				
Sulphur Dioxide	µg/m ³	80	14.18	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	28.25	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	85.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	52.41	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.64	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	13.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	6.4	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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



54913532511
KLPL- 31175A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/011 **Issue Date** : 04-Jun-2019

Rereference : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 20-May-2019 **Commenced On** : 20-May-2019 **Completion On**: 25-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

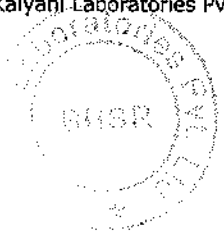
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - Chhatrapur Village, 14.05.2019				
Sulphur Dioxide	µg/m ³	80	8.24	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	16.19	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	69.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	44.26	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.54	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	4.2	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/012 **Issue Date** : 04-Jun-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 20-May-2019 **Commenced On** : 20-May-2019 **Completion On**: 25-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - MID DAY MEAL, 15.05.2019				
Sulphur Dioxide	µg/m ³	80	10.36	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	22.30	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	75.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	46.03	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.69	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.5	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

M. S. Meel
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/013

Issue Date : 04-Jun-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 20-May-2019

Commenced On : 20-May-2019

Completion On : 25-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure : KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - LANJIGARH VILLAGE, 16.05.2019				
Sulphur Dioxide	µg/m ³	80	10.08	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	23.37	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	76.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	47.42	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.55	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.7	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

D. S. Nayak
Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/014

Issue Date : 04-Jun-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 20-May-2019

Commenced On : 20-May-2019

Completion On: 25-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - REHABILITATION COLONY, 17.05.2019				
Sulphur Dioxide	µg/m ³	80	11.11	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	24.15	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	79.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	48.26	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.84	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.5	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



54913532511

KLPL- 31156A of 1



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/015 **Issue Date** : 04-Jun-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 20-May-2019 **Commenced On** : 20-May-2019 **Completion On:** 25-May-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - BELAMBA VILLAGE, 18.05.2019				
Sulphur Dioxide	µg/m ³	80	7.42	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	20.24	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	69.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	43.30	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.49	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.8	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT

NABL ULR NO : TC704319000001353P



Test Report No : 90 | 17210549 KLPL/5/19/ENVN/016

Issue Date : 04-Jun-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 27-May-2019 Commenced On : 27-May-2019

Completion On: 01-June-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-05

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - plant site ,20.05.2019				
Sulphur Dioxide	µg/m ³	80	13.09	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	29.21	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	83.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	53.35	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.63	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	13.2	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	6.6	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



54913532511

KLPL- 31166A of 1



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/017

Issue Date : 04-Jun-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 27-May-2019 **Commenced On** : 27-May-2019

Completion On : 01-June-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - Chhatrapur Village, 21.05.2019				
Sulphur Dioxide	µg/m ³	80	7.52	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	17.22	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	70.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	42.38	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.53	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	4.1	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

[Signature]

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



54913532511

KLPL- 31165A of 1

KALYANI LABORATORIES PVT. LTD.



78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/018 **Issue Date** : 04-Jun-2019
Rerference : 6600011158 DATE: 16.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 27-May-2019 **Commenced On** : 27-May-2019 **Completion On**: 04-June-2019

Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

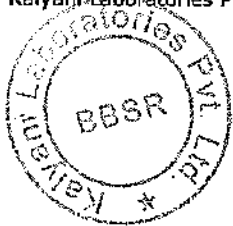
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - MID DAY MEAL, 22.05.2019				
Sulphur Dioxide	µg/m ³	80	11.30	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	23.37	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	76.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	48.26	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.71	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.6	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

M. S. Prasad
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/019 **Issue Date** : 04-Jun-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 27-May-2019 **Commenced On** : 27-May-2019 **Completion On:** 01-June-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - LANJIGARH VILLAGE, 23.05.2019				
Sulphur Dioxide	µg/m ³	80	12.26	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	22.47	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	77.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	47.22	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.56	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.9	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/020 **Issue Date** : 04-Jun-2019

Reference : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 27-May-2019 **Commenced On** : 27-May-2019 **Completion On** : 01-June-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - REHABILITATION COLONY, 24.05.2019				
Sulphur Dioxide	µg/m ³	80	10.35	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	25.20	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	78.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	49.34	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.83	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.6	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

M. S. S. S.
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/021

Issue Date : 04-Jun-2019

Rereference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 27-May-2019 Commenced On : 27-May-2019

Completion On: 01-June-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - BELAMBA VILLAGE, 25.05.2019				
Sulphur Dioxide	µg/m ³	80	8.40	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	19.25	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	67.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	42.20	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.48	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.6	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



54913532511

KLPL- 31161A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/022

Issue Date : 04-Jun-2019

Rerefrence : 5600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 31-May-2019

Commenced On : 31-May-2019

Completion On: 04-June-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - plant site ,27.05.2019				
Sulphur Dioxide	µg/m ³	80	12.36	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	23.12	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	82.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	52.41	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.61	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	13.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (NI)	ng/m ³	20	6.4	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



54913532511

KLPL- 31160A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/023

Issue Date : 04-Jun-2019

Rerference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 31-May-2019

Commenced On : 31-May-2019

Completion On : 04-June-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - Chhatrapur Village, 28.05.2019				
Sulphur Dioxide	µg/m ³	80	6.40	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	17.28	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	71.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	46.22	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.55	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	4.3	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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



54913532511

KLPL- 31158A



Kalyani Laboratories

KALYANI LABORATORIES PVT. LTD.

78/9-44, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001353P

Test Report No : 90 | 17210549 KLPL/5/19/ENVN/024

Issue Date : 04-Jun-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 31-May-2019

Commenced On : 31-May-2019

Completion On : 04-June-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO

Ref.To Sampling Procedure : KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : - MID DAY MEAL, 29.05.2019				
Sulphur Dioxide	µg/m ³	80	9.16	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	23.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM10)	µg/m ³	100	75.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Particulate Matter (PM2.5)	µg/m ³	60	49.34	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.71	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.7	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benza (a) Pyrene (BaP)	ng/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	ng/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	ng/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

M. S. S. S.

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



54913532511

KLPL- 31158A Page 1 of 1



KALYANI LABORATORIES PVT. LTD.

78/9-44, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/001 **Issue Date** : 03-Jul-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 03-Jun-2019 **Commenced On** : 03-Jun-2019 **Completion On:** 08-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

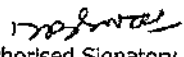
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : BELAMBA VILLAGE, 01.06.2019				
Sulphur Dioxide	µg/m ³	80	8.40	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	16.11	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	63.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	42.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.46	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.5	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/002 **Issue Date** : 03-Jul-2019

Rerference : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 10-Jun-2019 **Commenced On** : 10-Jun-2019 **Completion On:** 15-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------

Location & Date : PLANT SITE, 03.06.2019

Sulphur Dioxide	µg/m ³	80	14.09	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	26.42	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	85.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	54.31	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.65	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	13.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	6.3	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/9-44, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/003 **Issue Date** : 03-Jul-2019

Rereference : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI,ODISHA-766027.

Date of receipt : 10-Jun-2019 **Commenced On** : 10-Jun-2019 **Completion On:** 15-Jun-2019

Sample Name : **AMBIENT AIR QUALITY MONITORING**

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

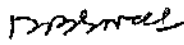
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

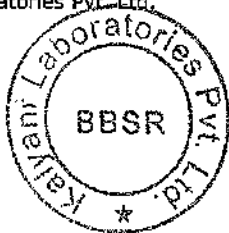
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : Chhatrapur Village, 04.06.2019				
Sulphur Dioxide	µg/m ³	80	7.57	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	17.21	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	71.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	46.03	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide(CO) (01 Hrs.)	mg/m ³	04	0.54	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	4.2	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/004 **Issue Date** : 03-Jul-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI,ODISHA-766027.

Date of receipt : 10-Jun-2019 **Commenced On** : 10-Jun-2019 **Completion On:** 15-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------

Location & Date : MID DAY MEAL, 05.06.2019

Sulphur Dioxide	µg/m ³	80	10.35	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	22.36	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	78.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	52.18	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.72	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.6	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/005

Issue Date : 03-Jul-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI,ODISHA-766027.

Date of receipt : 10-Jun-2019

Commenced On : 10-Jun-2019

Completion On: 15-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 06.06.2019				
Sulphur Dioxide	µg/m ³	80	11.49	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	23.37	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	73.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	47.42	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.52	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.5	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/006 **Issue Date** : 03-Jul-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 10-Jun-2019 **Commenced On** : 10-Jun-2019 **Completion On**: 15-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06


Parameters	Unit	Standard Value	Results	Test Method
Location & Date : REHABILITATION COLONY, 07.06.2019				
Sulphur Dioxide	µg/m ³	80	9.19	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	20.09	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	70.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	44.45	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.83	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.3	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Mahapatra
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/007 **Issue Date** : 03-Jul-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI,ODISHA-766027.

Date of receipt : 10-Jun-2019 **Commenced On** : 10-Jun-2019 **Completion On:** 15-Jun-2019

Sample Name ; **AMBIENT AIR QUALITY MONITORING**

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : BELAMBA VILLAGE, 08.06.2019				
Sulphur Dioxide	µg/m ³	80	7.45	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	18.29	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	65.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	43.49	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide-(CO) (01 Hrs.)	mg/m ³	04	0.47	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.6	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/008 **Issue Date** : 03-Jul-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 17-Jun-2019 **Commenced On** : 17-Jun-2019 **Completion On**: 22-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : PLANT SITE, 10.06.2019				
Sulphur Dioxide	µg/m ³	80	12.21	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	27.57	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	81.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	51.29	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.61	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	12.6	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	6.1	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/009

Issue Date : 03-Jul-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 17-Jun-2019

Commenced On : 17-Jun-2019

Completion On: 22-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : Chhatrapur Village, 11.06.2019				
Sulphur Dioxide	µg/m ³	80	8.24	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	19.43	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	69.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	47.42	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.53	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	4.3	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/010

Issue Date : 03-Jul-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 17-Jun-2019

Commenced On : 17-Jun-2019

Completion On : 22-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------

Location & Date : MID DAY MEAL, 12.06.2019

Sulphur Dioxide	µg/m ³	80	9.28	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	21.39	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	76.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	50.43	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.71	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.5	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/G/19/ENVN/012 **Issue Date** : 03-Jul-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 17-Jun-2019 **Commenced On** : 17-Jun-2019 **Completion On:** 22-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : REHABILITATION COLONY, 14.06.2019				
Sulphur Dioxide	µg/m ³	80	10.39	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	23.27	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	74.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	48.04	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.85	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.4	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/011 Issue Date : 03-Jul-2019
 Rerefrence : 6600011158 DATE: 16.07.2018
 Customer Name : VEDANTA LIMITED , LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 17-Jun-2019 Commenced On : 17-Jun-2019 Completion On: 22-Jun-2019

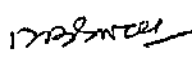
Sample Name : AMBIENT AIR QUALITY MONITORING
 Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
 Quantity : 1 NO.
 Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 13.06.2019				
Sulphur Dioxide	µg/m ³	80	11.34	CPCB Guidelins of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	25.06	CPCB Guidelins of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	72.0	CPCB Guidelins of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	42.56	CPCB Guidelins of Ambient Air Pollutants Volume-I & II
Carbon Monoxide:(CO) (01 Hrs.)	mg/m ³	04	0.51	CPCB Guidelins of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.4	CPCB Guidelins of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelins of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelins of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelins of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelins of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelins of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelins of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/013 **Issue Date** : 03-Jul-2019

Rerference : 5600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI,ODISHA-766027.

Date of receipt : 24-Jun-2019 **Commenced On** : 24-Jun-2019 **Completion On:** 29-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------


Location & Date : PLANT SITE, 17.06.2019				
Sulphur Dioxide	µg/m ³	80	13.26	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	29.19	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	84.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	55.33	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.64	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01.Hrs.)	µg/m ³	180	12.8	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	6.2	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Prasanna
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/014 **Issue Date** : 03-Jul-2019

Rereference : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 24-Jun-2019 **Commenced On** : 24-Jun-2019 **Completion On:** 29-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref. To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : Chhatrapur Village, 18.06.2019				
Sulphur Dioxide	µg/m ³	80	9.28	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	21.39	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	72.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	46.62	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.55	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	4.4	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

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





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/015 **Issue Date** : 03-Jul-2019

Rereference : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 24-Jun-2019 **Commenced On** : 24-Jun-2019 **Completion On**: 29-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

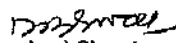
Ref. To Sampling Procedure: KLPL/SOP/AIR-06

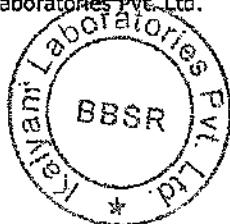
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : MID DAY MEAL, 19.06.2019				
Sulphur Dioxide	µg/m ³	80	11.15	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	22.69	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	75.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	50.21	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide(CO) (01 Hrs.)	mg/m ³	04	0.70	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.4	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/016

Issue Date : 03-Jul-2019

Rerefence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 24-Jun-2019

Commenced On : 24-Jun-2019

Completion On: 29-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 20.06.2019				
Sulphur Dioxide	µg/m ³	80	12.40	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	23.18	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	71.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	45.22	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.50	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.5	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



69816883230

KLPL- 31784A

Page 1 of 1



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/017

Issue Date : 03-Jul-2019

Rereference : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 24-Jun-2019

Commenced On : 24-Jun-2019

Completion On: 29-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref. To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------

Location & Date : REHABILITATION COLONY, 21.06.2019

Sulphur Dioxide	µg/m ³	80	11.03	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	22.07	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	77.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	51.29	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.88	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.7	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



69816883230

KLPL- 31783A

Page 1 of 1



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/018

Issue Date : 03-Jul-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI,ODISHA-766027.

Date of receipt : 24-Jun-2019 Commenced On : 24-Jun-2019 Completion On: 29-Jun-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------

Location & Date : BELAMBA VILLAGE, 22.06.2019

Sulphur Dioxide	µg/m ³	80	7.29	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	20.29	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	68.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	46.62	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.49	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.7	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (NI)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

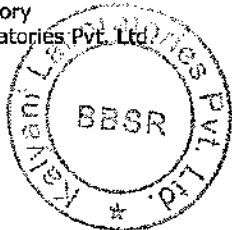
Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorised Signatory

For Kalyani Laboratories Pvt. Ltd.



69816883230

KLPL- 31763A
Page 1 of 1



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/019 **Issue Date** : 03-Jul-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI,ODISHA-766027.

Date of receipt : 01-July-2019 **Commenced On** : 01-July-2019 **Completion On**: 05-July-2019

Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO.
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters **Unit** **Standard Value** **Results** **Test Method**

Location & Date : PLANT SITE, 24.06.2019

Parameters	Unit	Standard Value	Results	Test Method
Sulphur Dioxide	µg/m ³	80	12.31	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	28.21	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	86.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	56.04	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.66	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	13.1	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	6.45	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Dasrui
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/020 **Issue Date** : 03-Jul-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI,ODISHA-766027.

Date of receipt : 01-July-2019 **Commenced On** : 01-July-2019 **Completion On:** 05-July-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
------------	------	----------------	---------	-------------

Location & Date : Chhatrapur Village, 25.06.2019				
Sulphur Dioxide	µg/m ³	80	10.39	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	23.08	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	75.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	47.22	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.57	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	4.5	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19B60698 KLPL/6/19/ENVN/021

Issue Date : 03-Jul-2019

Rerefrence : 6600011158 DATE: 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI,ODISHA-766027.

Date of receipt : 01-July-2019 Commenced On : 01-July-2019 Completion On: 05-July-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : MID DAY MEAL, 26.06.2019				
Sulphur Dioxide	µg/m ³	80	9.24	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	20.12	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	80.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	52.18	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.74	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.7	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

DPSM
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/G/19/ENVN/022 **Issue Date** : 03-Jul-2019
Rereference : 6600011158 DATE: 16.07.2018
Customer Name : VEDANTA LIMITED , LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 01-July-2019 **Commenced On** : 01-July-2019 **Completion On**: 05-July-2019

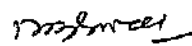
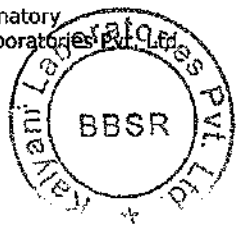
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO.
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 27.06.2019				
Sulphur Dioxide	µg/m ³	80	10.36	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	22.30	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	75.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	47.42	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.53	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.6	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.




KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/023 **Issue Date** : 03-Jul-2019

Rerefrence : 6600011158 **DATE:** 16.07.2018

Customer Name : VEDANTA LIMITED , LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.

Date of receipt : 01-July-2019 **Commenced On** : 01-July-2019 **Completion On:** 05-July-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : REHABILITATION COLONY, 28.06.2019				
Sulphur Dioxide	µg/m ³	80	9.68	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	21.39	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	76.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	48.26	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.86	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.6	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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

[Signature]
 Authorised Signatory
 For Kalyani Laboratories Pvt Ltd.



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000001688P

Test Report No : 124 | 19860698 KLPL/6/19/ENVN/024 **Issue Date** : 03-Jul-2019
Reference : 6600011158 DATE: 16.07.2018
Customer Name : VEDANTA LIMITED , LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 01-July-2019 **Commenced On** : 01-July-2019 **Completion On**: 05-July-2019

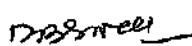
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO.
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : BELAMBA VILLAGE, 29.06.2019				
Sulphur Dioxide	µg/m ³	80	8.07	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	19.41	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	72.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	47.42	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.49	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.7	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benza (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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


 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.

