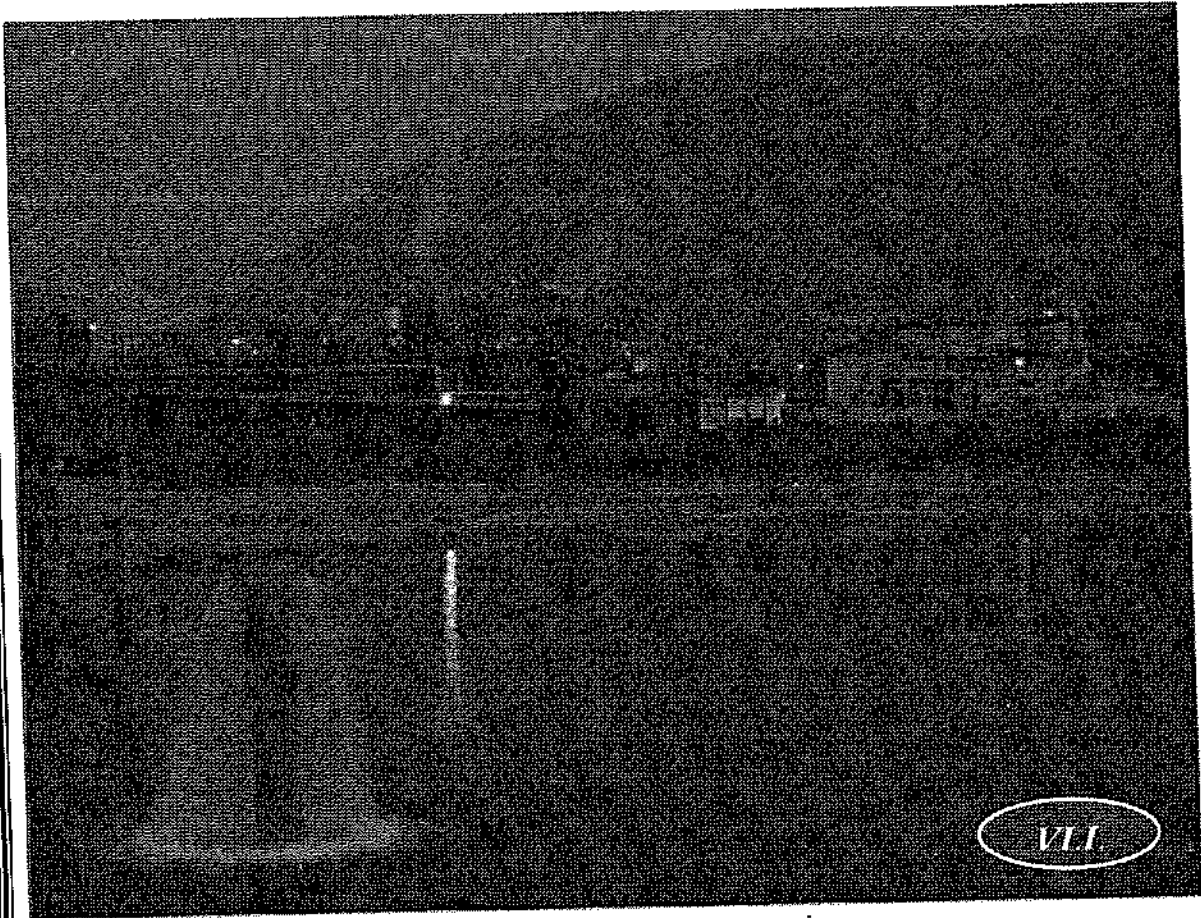


ENVIRONMENTAL SEASONAL REPORT

SEASONAL REPORT
July 2019 to September 2019



Address

Via: Viswanathpur, P.O.Lanjigarh-766027
Dist. Kalahandi,ORISSA
Tel: + 91 6677 247312/13/14/15/16
Fax: +91 6677 247311
October - 2019

MICRO-METEOROLOGICAL DATA AT SITE

Period: 1st July 2019 to 30th September 2019

Location: Plant Site

Month	Temperature (°C)		Relative Humidity (%)		Rainfall (mm)
	Max	Min	Max	Min	Total
July	34.0	21.90	99.9	55.10	379.2
August	33.2	22.1	96.8	58.8	724.5
September	34.40	20.8	96.7	52.40	232.6
				Total rainfall	1336.3

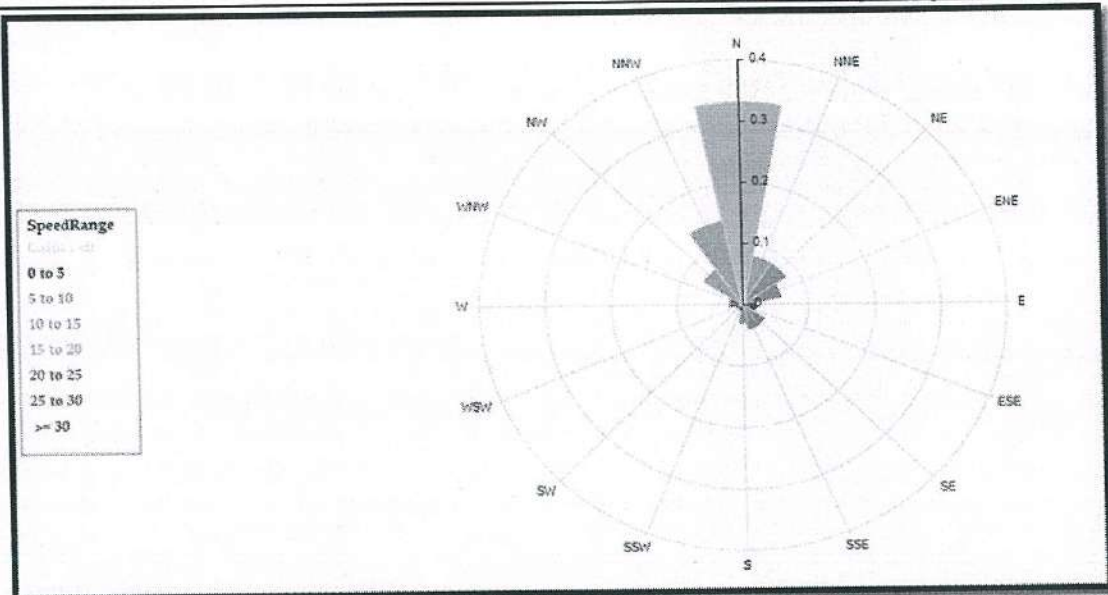
SUMMARY OF WIND PATTERN IN STUDY AREA

Season	First Predominant Wind Direction	Second Predominant Wind Direction	Predominant Wind Speeds (m/sec)	Calm (%)
July `19 to September `19	N	NE	0-1.5	0

Wind Pattern during the season

During the period the average winds from N direction were observed for 32.22% of the total time. In NE direction the winds were also observed for 12.99 % of the total time. The other direction and percentage frequencies were observed from NNW (10.43%), NNE (8.33%), NW (6.93%), and ENE (6.65 %). The calm conditions were observed to be for 0.0 % of the total time.





WINDROSE DIAGRAM- (Jul` 19 to Sep` 19)



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	73	63	68.75	47.42	37.18	42.59	11.08	5.13	8.35	25.39	14.26	20.15
Lanjigarh	69	55	61.67	43.11	34.08	38.78	9.07	3.09	6.18	21.45	13.62	18.09
Belamba	60	53	56.5	38.14	31.29	34.51	6.35	3.01	4.45	16.17	11.11	14.09
Niyamgiri Vedanta Nagar	65	55	59.92	42.38	31.28	36.31	7.13	3.04	5.13	20.33	11.55	15.77
Mid-Day Meal	68	59	62.33	43.3	35.08	38.55	8.14	4.16	6.05	21.19	13.38	17.77
Chhatrapur	64	50	55.83	39.38	34.28	37.11	8.44	3.82	6.05	19.33	13.62	16.54
	73.0 – 50.0			47.42 – 31.28			11.08 – 3.01			25.39 – 11.11		



Seasonal Report (Jul'19 to Sept'19)
ONLINE STACK MONITORING TEST RESULT OF CALCINER AND CF BOILER FOR THE
MONTH OF JULY 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-Jul-19	0.00	0.00	0.00	0.00	189.55	312.43	0.01	31	1388.36	474.68	6.93	65.86
02-Jul-19	0.00	0.00	0.00	0.00	182.07	316.63	0.01	31	1205.30	429.13	6.11	73.06
03-Jul-19	0.00	0.00	0.00	0.00	157.63	314.85	0.01	28	1289.38	470.86	7.79	76.60
04-Jul-19	0.00	0.00	0.00	0.00	164.14	313.47	0.01	29	1285.78	450.54	9.04	76.33
05-Jul-19	0.00	0.00	0.00	0.00	186.09	319.33	0.00	30	1404.99	492.20	9.11	75.84
06-Jul-19	0.00	0.00	0.00	0.00	191.22	320.79	0.01	28	1310.59	495.11	9.38	75.57
07-Jul-19	318.28	475.86	0.00	25	162.67	318.66	0.00	27	1326.18	463.41	12.47	73.91
08-Jul-19	0.00	0.00	0.00	0.00	158.97	326.91	0.00	25	1305.81	474.89	14.63	74.00
09-Jul-19	0.00	0.00	0.00	0.00	166.44	315.38	0.01	25	1322.82	471.37	11.36	75.22
10-Jul-19	0.00	0.00	0.00	0.00	162.29	316.95	0.01	22	1233.95	415.69	10.61	69.34
11-Jul-19	0.00	0.00	0.00	0.00	180.28	336.68	0.00	22	1283.46	383.46	7.37	72.35
12-Jul-19	0.00	0.00	0.00	0.00	174.32	352.35	0.00	23	1513.09	397.20	8.36	78.35
13-Jul-19	0.00	0.00	0.00	0.00	184.43	348.24	0.01	23	1360.77	425.39	7.4	78.27
14-Jul-19	316.04	465.47	0.08	25	222.26	365.01	0.00	23	1346.28	478.30	11.21	74.99
15-Jul-19	319.89	481.27	0.14	37	236.65	358.00	0.01	30	1246.39	486.03	5.89	75.40
16-Jul-19	363.41	481.42	0.11	33	239.20	345.74	0.01	52	1390.85	453.59	5.8	76.11
17-Jul-19	386.15	482.44	0.11	35	278.89	351.39	0.01	37	1362.57	455.07	9.71	74.72
18-Jul-19	396.17	488.14	0.12	28	242.80	360.04	0.00	39	1287.43	454.94	9.62	75.75
19-Jul-19	420.05	495.24	0.13	27	214.10	362.41	0.00	29	1213.59	541.06	11.3	74.95
20-Jul-19	424.55	497.80	0.13	27	258.22	358.18	0.00	29	1126.94	522.35	6.31	74.76
21-Jul-19	427.43	498.37	0.11	28	219.42	358.95	0.00	29	1323.53	507.92	8.76	74.86
22-Jul-19	427.55	494.96	0.11	28	239.74	360.16	0.00	31	1506.74	568.30	13.07	76.99
23-Jul-19	422.65	0.00	0.11	30	297.06	359.03	0.01	30	1526.73	563.80	11.8	77.02
24-Jul-19	436.07	0.00	0.11	27	304.81	359.41	0.01	34	1455.75	546.07	10.18	76.95
25-Jul-19	433.60	0.00	0.13	33	299.52	362.04	0.01	32	1523.72	559.51	12.39	76.13
26-Jul-19	448.18	0.00	0.14	31	305.94	366.13	0.01	29	1404.70	455.28	9.86	74.35
27-Jul-19	434.48	0.00	0.13	37	285.35	364.15	0.01	29	1446.79	500.22	7.63	73.67
28-Jul-19	449.13	0.00	0.14	33	296.44	363.40	0.01	29	1459.79	513.09	13.38	74.22
29-Jul-19	402.89	0.00	0.15	37	218.77	364.86	0.01	29	1293.91	436.47	9.02	68.46
30-Jul-19	401.61	0.00	0.14	33	213.08	362.94	0.01	29	1260.92	431.28	19.59	70.23
31-Jul-19	401.06	0.00	0.14	31	207.85	363.67	0.01	30	1359.35	407.95	15.81	79.14

Note: Calciner 1 was not under operation from dt: 01-07-2019 to dt: 06-07-2019 & from dt: 08-07-2019 to dt: 13-07-2019.



Seasonal Report (Jul'19 to Sept'19)
ONLINE STACK MONITORING TEST RESULT OF CALCINER AND CF BOILER FOR THE
MONTH OF AUGUST 2019

Date of sampling	Calciner 1				Calciner 2				CFB Stack			
	SO2	NOx	CO	PM	SO2	NOx	CO	PM	SO2	NOx	CO	PM
	ppm	ppm	%	mg/Nm ³	ppm	ppm	%	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³
01-Aug-19	405.63	620.50	0.14	32	199.71	365.09	0.01	31	1572.80	409.94	6.98	77.11
02-Aug-19	393.03	616.17	0.14	30	192.58	366.21	0	33	1592.70	483.81	12.08	76.06
03-Aug-19	402.91	616.40	0.14	29	203.84	363.31	0	31	1656.74	541.55	8.76	73.84
04-Aug-19	417.67	615.00	0.13	30	230.80	362.28	0	30	1801.78	541.97	11.03	75.07
05-Aug-19	445.78	616.10	0.13	34	262.52	361.28	0	29	1936.89	550.57	11.77	72.09
06-Aug-19	441.19	635.86	0.19	33	237.19	385.51	0	32	1649.28	451.10	13.26	72.82
07-Aug-19	405.47	631.27	0.18	27	205.00	390.43	0	34	1623.99	471.30	8.25	70.95
08-Aug-19	399.02	614.07	0.15	26	0	0	0	0	1363.15	345.03	18.01	71.10
09-Aug-19	430.38	612.02	0.14	28	193.94	359.51	0	29	1087.51	357.05	14.50	70.56
10-Aug-19	500.50	617.45	0.12	29	260.60	361.15	0	29	1450.37	402.09	14.19	67.99
11-Aug-19	554.70	643.49	0.15	28	261.05	361.54	0	28	1679.84	428.36	4.81	78.07
12-Aug-19	550.16	659.59	0.16	29	260.50	368.86	0	28	1671.07	400.59	6.36	65.59
13-Aug-19	497.36	658.60	0.16	30	233.23	369.76	0	28	1641.19	370.08	14.29	68.91
14-Aug-19	566.49	664.25	0.15	30	243.35	368.85	0	35	1630.46	372.01	9.52	75.17
15-Aug-19	584.15	689.44	0.15	29	268.77	361.49	0.01	29	1850.34	417.30	19.00	75.62
16-Aug-19	585.98	697.32	0.15	32	263.05	372.81	0	29	1765.44	443.61	10.40	81.24
17-Aug-19	572.11	700.82	0.16	28	261.57	376.20	0	30	1788.15	450.12	5.92	77.54
18-Aug-19	582.30	698.07	0.17	27	266.99	369.52	0	28	1642.95	419.37	25.63	74.28
19-Aug-19	585.65	692.20	0.14	26	261.46	364.16	0	29	1261.41	491.36	5.94	79.92
20-Aug-19	580.55	696.38	0.14	31	260.61	369.53	0	30	1304.80	458.67	4.08	74.27
21-Aug-19	577.27	704.09	0.14	33	266.42	82.52	0.02	29	1265.55	446.52	7.53	69.68
22-Aug-19	569.62	682.17	0.17	33	254.54	259.46	0	30	1375.55	432.76	8.30	72.22
23-Aug-19	540.54	679.50	0.17	32	239.68	409.72	0	42	1229.10	433.53	8.96	81.50
24-Aug-19	531.70	671.25	0.15	29	213.22	398.27	0	34	1098.69	255.45	26.45	91.87
25-Aug-19	563.61	674.44	0.18	29	192.97	400.47	0	30	1808.23	478.02	12.48	82.81
26-Aug-19	557.74	672.43	0.17	35	177.93	400.74	0	29	1925.91	434.73	40.90	77.19
27-Aug-19	574.25	669.55	0.16	36	146.17	402.16	0	29	1831.10	448.55	10.68	76.04
28-Aug-19	567.90	669.73	0.16	29	144.98	404.72	0	36	1880.94	456.45	13.95	68.95
29-Aug-19	580.80	375.98	0.15	35	0	0	0	0	1927.92	427.38	7.38	67.05
30-Aug-19	581.27	57.25	0.14	42	0	0	0	0	1951.59	408.57	14.38	54.56
31-Aug-19	601.40	60.14	0.14	29	0	0	0	0	1912.59	410.83	9.46	28.95

Note: Calciner 2 was not under operation on dt: 08-08-2019 & from dt: 29-08-2019 to dt: 31-08-2019 for maintenance activities.



Seasonal Report (Jul'19 to Sept'19)
ONLINE STACK MONITORING TEST RESULT OF CALCINER AND CF BOILER FOR THE
MONTH OF SEPTEMBER 2019

Date of sampling	Calciner 1				Calciner 2				CFB Stack			
	SO2	NOx	CO	PM	SO2	NOx	CO	PM	SO2	NOx	CO	PM
Unit	ppm	ppm	%	mg/Nm ³	ppm	ppm	%	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³
01-Sep-19	611.94	61.02	0.15	29.00	-	-	-	-	1943.08	415.69	7.20	32.75
02-Sep-19	582.38	50.66	0.16	30.00	-	-	-	-	1921.29	397.50	9.66	30.80
03-Sep-19	686.37	50.81	0.18	30.00	-	-	-	-	1881.83	395.94	10.80	30.24
04-Sep-19	698.80	51.88	0.16	31.00	-	-	-	-	1898.14	420.30	11.62	35.96
05-Sep-19	682.99	53.18	0.15	32.00	-	-	-	-	1820.35	415.98	23.90	38.71
06-Sep-19	698.15	49.52	0.16	32.00	-	-	-	-	1921.70	439.13	14.83	37.00
07-Sep-19	679.48	46.00	0.16	36.00	-	-	-	-	1899.57	407.00	13.55	34.36
08-Sep-19	737.93	45.54	0.17	34.00	-	-	-	-	1845.67	392.55	13.44	37.08
09-Sep-19	707.71	45.45	0.15	37.00	-	-	-	-	1774.35	457.78	6.30	48.75
10-Sep-19	731.54	52.50	0.17	35.00	-	-	-	-	1827.42	430.55	5.25	32.46
11-Sep-19	708.93	51.65	0.15	35.00	-	-	-	-	1907.84	396.59	8.14	33.11
12-Sep-19	677.42	48.31	0.15	37.00	24.75	18.67	0.01	23.00	1761.84	356.44	7.25	33.32
13-Sep-19	696.16	37.94	0.16	38.00	93.04	20.06	0.01	21.00	1270.00	357.96	5.69	32.75
14-Sep-19	670.13	41.97	0.17	40.00	159.97	32.10	0.01	23.00	1694.62	395.15	7.59	34.50
15-Sep-19	536.98	46.26	0.19	32.00	391.43	44.74	0.01	21.00	1854.16	394.86	7.44	33.60
16-Sep-19	433.09	35.58	0.17	34.00	448.34	46.99	0.01	21.00	1929.83	376.43	5.74	35.52
17-Sep-19	488.84	45.37	0.15	35.00	422.56	49.67	0.01	22.00	1919.13	357.79	8.49	36.78
18-Sep-19	514.09	49.32	0.15	34.00	451.20	52.11	0.01	24.00	1935.54	393.39	10.61	39.32
19-Sep-19	491.14	47.82	0.17	35.00	425.25	54.89	0.01	25.00	1898.08	395.89	11.79	38.48
20-Sep-19	526.09	49.06	0.17	35.00	465.36	55.17	0.01	24.00	1660.23	365.02	5.74	37.32
21-Sep-19	612.70	42.58	0.17	39.00	472.74	46.06	0.01	25.00	1872.59	328.37	7.55	36.94
22-Sep-19	631.41	44.37	0.16	36.00	462.08	48.76	0.01	25.00	1901.18	354.83	10.82	38.46
23-Sep-19	638.45	44.99	0.16	42.00	536.32	57.15	0.02	26.00	1810.47	423.80	9.78	39.13
24-Sep-19	634.17	43.94	0.16	38.00	554.58	55.29	0.01	33.00	1838.21	446.14	19.89	42.77
25-Sep-19	589.16	40.52	0.05	39.00	580.98	53.81	0.02	27.00	1829.33	518.80	9.74	40.68
26-Sep-19	616.02	43.03	0.04	37.00	559.01	54.78	0.01	28.00	1946.67	484.84	10.07	41.66
27-Sep-19	588.94	45.59	0.05	37.00	515.93	58.69	0.01	27.00	1954.79	429.23	9.51	44.45
28-Sep-19	578.09	48.69	0.04	39.00	483.69	63.01	0.01	28.00	1848.38	431.66	7.85	40.07
29-Sep-19	522.87	50.17	0.04	37.00	487.20	62.66	0.01	26.00	1936.65	423.66	9.73	43.45
30-Sep-19	497.55	46.13	0.04	36.00	490.01	55.07	0.01	24.00	1684.10	432.34	12.49	45.13

Note : Calciner 2 was not under operation from dt: 01-09-2019 to dt: 11-09-2019 for maintenance activities.



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101. ODISHA



TEST REPORT

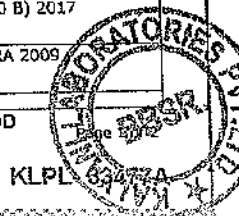


NABL ULR NO : TC704319000002525P
Test Report No : 1221 | 27069DDKLPL/9/19/WATER/01337 **Issue Date** : 05-Oct-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 12-Sep-2019 **Test Commenced On** : 12-Sep-2019 **Test Completion On**: 19-Sep-2019
Sample Description : SURFACE WATER

Sample Condition : SEALED IN 1LTR PET BOTTLE
Sample Identification * : SURFACE WATER **Sampling Date** : 10-Sep-2019
Batch No, Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1LTR X 2 **Place of Collection** : VAMSADHARA RIVER NEAR CHHATRAPUR
Sample Collected By : By KLPL **CULVERT(DOWNSTREAM)DT-10.09.2019**
Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100ml.	5000	35	IS: 1622:1981 RA 2009
CHEMICAL PARAMETER				
i Calcium as Ca	mg/l, Max	-	19.4	APHA 23rd Edition (3500-Ca-B), 2017
ii Iron (as Fe)	mg/l, Max	50	6.4	APHA-23rd Edition (3500-Fe-B, 3111 B) 2017
iii Selenium (as Se)	mg/l, Max	0.01	< 0.01	IS 3025 (Part 56):2003 RA 2009
iv Polynuclear Aromatic Hydrocarbon	mg/l, Max	--	< 0.0001	APHA 6440
v barium	mg/l	--	< 0.2	--
vi Chloride as Cl	mg/l, Max	500	12.4	APHA 23rd Edition (4500-Cl - -B), 2017
vii Sulphate as SO4	mg/l, Max	400	16	APHA 23rd Edition (4500-So42 - -E), 2017
viii Nitrate as NO3	mg/l, Max	50	0.45	APHA 23rd Edition (4500-NO3 - -E), 2017
ix Electrical Conductivity	µs/cm	-	132	APHA 23rd Edition (2510 B) 2017
x Fluoride as F	mg/l, Max	1.5	0.07	APHA 23rd Edition (4500-F - -D,-C), 2017
xi Total Dissolved Solid	mg/l, Max	1500	96	APHA 23rd Edition (2540 C), 2017
xii Magnesium as Mg	mg/l, Max	-	6.56	APHA 23rd Edition (3500-Mg-B), 2017
xiii Boron as B	mg/l, Max	-	< 0.1	APHA 23rd Edition (4500B- B), 2017
xiv Dissolved Oxygen	mg/l, Min	4.0	6.8	APHA 23rd Edition(4500-O-C), 2017
xv Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	--	2.1	APHA 23rd Edition 2012(5210 B), 2017
xvi Total Hardness as CaCO3	mg/l, Max	--	75	APHA 23rd Edition (2340 C), 2017
xvii Copper (as Cu)	mg/l, Max	1.5	< 0.01	IS 3025 (Part 42):1992 RA 2009
xviii Manganese (as Mn)	mg/l, Max	--	< 0.1	IS 3025 (Part 59):2006 RA 2012
ix Zinc (as Zn)	mg/l, Max	15	< 0.01	IS 3025 (Part 49):1994 RA 2009
xx Free Ammonia (as NH3)	mg/l, Max	---	< 0.01	APHA-23rd Edition (4500-NH3-B) 2017
xxi Oil & Grease	mg/l, Max	--	< 0.025	APHA-23rd Edition (5520 B) 2017
xxii Total Chromium	mg/l, Max	0.05	< 0.01	IS 3025 (Part 52):2003 RA 2009

1221 | 27069DD



KLPL 8347A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101. ODISHA

Test Report No : 1221 | 27069DDKLPL/9/19/WATER/01337



Parameters	Unit	Requirement	Result	Test Method
xxiii Anionic Surface Active Agents (as MBAS)	mg/l	--	< 0.1	Annex K of IS 13428:2005
xxiv Silver (as Ag)	mg/l	--	< 0.01	--
xxv Phenols	mg/l	0.005	< 0.001	IS 3025 (Part 43):1992 RA 2009
xxvi PERCENT SODIUM (%)	%	--	0.0022	--
xxvii SODIUM ABSORPTION RATIO	--	--	0.0098	--
xxviii TOTAL PESTISIDE	mg/l	--	< 0.0001	USEPA
PHYSICAL PARAMETER				
i Color	--	300	< 1.0	APHA 23rd Edition (2120 B), 2017
ii pH Value	--	6.5-8.5	7.1	APHA 23rd Edition (4500-H+-B), 2017
iii Odour	--	Unobjectionable	AGREEABLE	APHA 23rd Edition (2120 B), 2017
iv Taste	---	Agreeable	AGREEABLE	IS 3025 (Part B): 1984, RA 2006
RADIOACTIVITY SUBSTANCES				
i Alpha-Emitters	uCi/mL	0.001	BDL	IS 14194 (PART-2):2013
ii Beta-Emitters	uCi/mL	0.01	BDL	IS 14194 (PART-2):2013
TOXIC SUBSTANCES				
i Cadmium (as Cd)	mg/l, Max	0.01	< 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 2003
iii Lead (as Pb)	mg/l, Max	0.1	< 0.01	IS 3025 (Part 47):1994 RA 2009
iv Mercury (as Hg)	mg/l, Max	0.001	< 0.0001	IS 3025 (Part 48):1994 RA 2009
v Arsenic (as As)	mg/l, Max	0.05	< 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

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000002524F
Test Report No : 1220 | 27059DCKLPL/9/19/WATER/01336 **Issue Date** : 05-Oct-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 12-Sep-2019 **Test Commenced On** : 12-Sep-2019 **Test Completion On**: 19-Sep-2019
Sample Description : SURFACE WATER

Sample Condition : SEALED IN 1LTR PET BOTTLE
Sample Identification * : SURFACE WATER **Sampling Date** : 10-Sep-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1LTR X 2 **Place of Collection** : VAMSADHARA RIVER NEAR NARAYANAPUR
Sample Collected By : By KLPL **CULVERT(UPSTREAM) DT-10.09.2019**
Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
BACTERIOLOGICAL QUALITY				
i Total Coliforms	MPN/100ml.	5000	34	IS: 1622:1981 RA 2009
CHEMICAL PARAMETER				
i Fluoride as F	mg/l, Max	1.5	< 0.05	APHA 23rd Edition (4500-F -- D,-C), 2017
ii Dissolved Oxygen	mg/l, Min	4.0	6.4	APHA 23rd Edition(4500-O-C), 2017
iii Manganese (as Mn)	mg/l, Max	--	< 0.1	IS 3025 (Part 59):2006 RA 2012
iv Oil & Grease	mg/l, Max	--	< 0.025	APHA-23rd Edition (5520 B) 2017
v Chloride as Cl	mg/l, Max	600	6.2	APHA 23rd Edition (4500-Cl -- B), 2017
vi Sulphate as SO ₄	mg/l, Max	400	11	APHA 23rd Edition (4500-So42 -- E), 2017
vii Nitrate as NO ₃	mg/l, Max	50	0.38	APHA 23rd Edition (4500-NO ₃ -- E), 2017
viii Electrical Conductivity	us/cm	-	110	APHA 23rd Edition (2510 B) 2017
ix PERCENT SODIUM (%)	%	--	0.0015	--
x barium	mg/l	--	< 0.2	--
xi Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	--	2.6	APHA 23rd Edition 2012(5210 B), 2017
xii Total Hardness as CaCO ₃	mg/l, Max	--	70	APHA 23rd Edition (2340 C), 2017
xiii Copper (as Cu)	mg/l, Max	1.5	<.0.01	IS 3025 (Part 42):1992 RA 2009
xiv Iron (as Fe)	mg/l, Max	50	5.8	APHA-23rd Edition (3500-Fe-B , 3111 B) 2017
xv Total Dissolved Solid	mg/l, Max	1500	90	APHA 23rd Edition (2540 C), 2017
xvi Calcium as Ca	mg/l, Max	-	17.6	APHA 23rd Edition (3500-Ca-B), 2017
xvii Magnesium as Mg	mg/l, Max	-	6.32	APHA 23rd Edition (3500-Mg-B), 2017
xviii Boron as B	mg/l, Max	-	< 0.1	APHA 23rd Edition (4500B- B), 2017
xix Selenium (as Se)	mg/l, Max	0.01	< 0.01	IS 3025 (Part 36):2003 RA 2009
xx Zinc (as Zn)	mg/l, Max	15	< 0.01	IS 3025 (Part 49):1994 RA 2009
xxi Free Ammonia (as NH ₃)	mg/l, Max	-	< 0.01	APHA-23rd Edition (4500-NH ₃ -B) 2017
xxii Total Chromium	mg/l, Max	0.05	< 0.01	IS 3025 (Part 52):2003 RA 2009

1220 | 27059DC





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 1220 | 27059DCKLPL/9/19/WATER/01336



Parameters	Unit	Requirement	Result	Test Method
xxiii Anionic Surface Active Agents (as MBAS)	mg/l	--	< 0.1	Annex K of IS 13428:2005
xxiv Polynuclear Aromatic Hydrocarbon	mg/l, Max	--	< 0.0001	APHA 6440
xxv Silver (as Ag)	mg/l	--	< 0.01	--
xxvi Phenols	mg/l	0.005	< 0.001	IS 3025 (Part 43):1992 RA 2009
xxvii SODIUM ABSORPTION RATIO	--	--	0.0018	--
xxviii TOTAL PESTICIDE	mg/l	--	< 0.0001	USEPA
PHYSICAL PARAMETER				
i Color	--	300	< 1.0	APHA 23rd Edition (2120 B), 2017
ii Odour	--	Unobjectionable	AGREEABLE	APHA 23rd Edition (2120 B), 2017
iii Taste	---	Agreeable	AGREEABLE	IS 3025 (Part 8): 1984, RA 2006
iv pH Value	--	6.5-8.5	7.6	APHA 23rd Edition (4500-H+-B), 2017
RADIOACTIVITY SUBSTANCES				
i Alpha-Emitters	uCi/mL	0.001	BDL	IS 14194 (PART-2):2013
ii Beta-Emitters	uCi/mL	0.01	BDL	IS 14194 (PART-2):2013
TOXIC SUBSTANCES				
i Cadmium (as Cd)	mg/l, Max	0.01	< 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 2003
iii Lead (as Pb)	mg/l, Max	0.1	< 0.01	IS 3025 (Part 47):1994 RA 2009
iv Mercury (as Hg)	mg/l, Max	0.001	< 0.001	IS 3025 (Part 48):1994 RA 2009
v Arsenic (as As)	mg/l, Max	0.05	< 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 : TC704319000002544P

Test Report No : 1238 | 27389F0KLPL/9/19/WATER/01367 **Issue Date** : 10-Oct-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

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

Date of receipt : 16-Sep-2019 **Test Commenced On** : 16-Sep-2019 **Test Completion On** : 26-Sep-2019

Sample Description : SURFACE WATER

Sample Condition : SEALED IN 1LTR PET BOTTLE

Sample Identification * : SURFACE WATER

Sampling Date : 15-Sep-2019

Batch No , Lot No : NA

MFG Date : NA

EXP Date : NA

Received Quantity : 1LTR X 2

Place of Collection : VAMSADHARA RIVER NEAR BALABHADRAPUR
DT-15.09.2019

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	60	IS: 1622:1981 RA 2009
ii Faecal Coliform	MPN/100ml.	-	25	IS 1622 : 1981 RA 2009
CHEMICAL PARAMETER				
i Chloride as Cl	mg/l, Max	600	4.1	APHA 23rd Edition (4500-Cl - -B), 2017
ii Sulphate as SO4	mg/l, Max	400	11	APHA 23rd Edition (4500-So42 - -E), 2017
iii Nitrate as NO3	mg/l, Max	50	0.5	APHA 23rd Edition (4500-NO3 - -E), 2017
iv Temperature	°c	-	25	APHA -----
v Electrical Conductivity	µs/cm	-	105	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	102	APHA 23rd Edition (2540 C), 2017
viii Calcium as Ca	mg/l, Max	-	15.8	APHA 23rd Edition (3500-Ca-B), 2017
ix Magnesium as Mg	mg/l, Max	-	3.40	APHA 23rd Edition (3500-Mg-B), 2017
x Chemical Oxygen Demand	mg/l, Max	-	70	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, Min	4.0	6.7	APHA 23rd Edition(4500-O-C), 2017
xiii Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	3.0	14	APHA 23rd Edition 2012(5210 B), 2017
xiv Total Hardness as CaCO3	mg/l, Max	--	54	APHA 23rd Edition (2340 C), 2017
xv Total Alkalinity	mg/l, Max	-	101	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	0.06	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	---	0.3	APHA-23rd Edition (4500-Cl-B) 2017

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KLPL-33925A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 1238 | 27389F0KLPL/9/19/WATER/01367



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	7.6	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	--	12	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	0.05	< 0.01	IS 3025 (Part 37):1988 RA 2009

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Digambar Boudh
Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000002543F

Test Report No : 1237 | 27379EFKLPL/9/19/WATER/01366

Issue Date : 09-Oct-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

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

Date of receipt : 16-Sep-2019 **Test Commenced On** : 16-Sep-2019 **Test Completion On**: 26-Sep-2019

Sample Description : SURFACE WATER

Sample Condition : SEALED IN 1LTR PET BOTTLE

Sample Identification * : SURFACE WATER

Sampling Date : 15-Sep-2019

Batch No , Lot No : NA

MFG Date : NA

EXP Date : NA

Received Quantity : 1LTR X 2

Place of Collection : STREAM NEAR RANGOPALI DT-15.09.2019

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 Collform	MPN/100ml.	-	50	IS 1622 : 1981 RA 2009
CHEMICAL PARAMETER				
i Chloride as Cl	mg/l, Max	600	2.1	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	0.07	APHA 23rd Edition (4500-NO3 - -E), 2017
iv Temperature	°c	-	25	APHA -----
v Electrical Conductivity	µs/cm	-	46	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	40	APHA 23rd Edition (2540 C), 2017
viii Calcium as Ca	mg/l, Max	-	2.9	APHA 23rd Edition (3500-Ca-B), 2017
ix Magnesium as Mg	mg/l, Max	-	5.35	APHA 23rd Edition (3500-Mg-B), 2017
x Chemical Oxygen Demand	mg/l, Max	-	62	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, Min	4.0	7.2	APHA 23rd Edition(4500-O-C), 2017
xiii Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	3.0	11	APHA 23rd Edition 2012(5210 B), 2017
xiv Total Hardness as CaCO3	mg/l, Max	--	36	APHA 23rd Edition (2340 C), 2017
xv Total Alkalinity	mg/l, Max	-	26	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	0.3	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	---	0.25	APHA-23rd Edition (4500-Cl-B) 2017

1237 | 27379EF

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KLPL- 33956A



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 1237 | 27379EFKLPL/9/19/WATER/01366



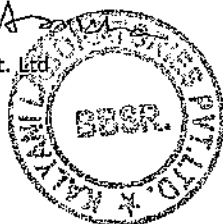
Parameters	Unit	Requirement	Result	Test Method
xxii Aluminum (as Al)	mg/l, Max	--	< 0.01	IS 3025 (Part 55): 2003 RA 2009
xxiii Polynuclear Aromatic Hydrocarbon	mg/l, Max	--	< 0.0001	APHA 6440
PHYSICAL PARAMETER				
i Color	--	300	< 1.0	APHA 23rd Edition (2120 B), 2017
ii pH Value	--	6.5-8.5	7.9	APHA 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	--	1.9	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	0.05	< 0.01	IS 3025 (Part 37):1988 RA 2009

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Digambar A
Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



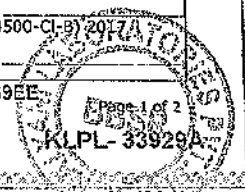
NABL ULR NO : TC70431900002542F

Test Report No : 1236 | 27369EEKLPL/9/19/WATER/01365 **Issue Date** : 09-Oct-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 16-Sep-2019 **Test Commenced On** : 16-Sep-2019 **Test Completion On** : 26-Sep-2019
Sample Description : SURFACE WATER

Sample Condition : SEALED IN 1LTR PET BOTTLE
Sample Identification * : SURFACE WATER **Sampling Date** : 15-Sep-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1LTR X 2 **Place of Collection** : STREAM NEAR KENDUBADI DT-15.09.2019
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.	-	50	IS 1622 : 1981 RA 2009
CHEMICAL PARAMETER				
i Chloride as Cl	mg/l, Max	600	4.1	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	< 0.05	APHA 23rd Edition (4500-NO3 - -E), 2017
iv Temperature	°c	-	25	APHA -----
v Electrical Conductivity	µs/cm	-	18	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	22	APHA 23rd Edition (2540 C), 2017
viii Calcium as Ca	mg/l, Max	-	2.9	APHA 23rd Edition (3500-Ca-B), 2017
ix Magnesium as Mg	mg/l, Max	-	1.70	APHA 23rd Edition (3500-Mg-B), 2017
x Chemical Oxygen Demand	mg/l, Max	-	70	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, Min	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	12	APHA 23rd Edition 2012(5210 B), 2017
xiv Total Hardness as CaCO3	mg/l, Max	--	14	APHA 23rd Edition (2340 C), 2017
xv Total Alkalinity	mg/l, Max	-	22	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	---	0.18	APHA-23rd Edition (4500-Cl-B) 2017

1236 | 27369EEK





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 1236 | 27369EEKLPL/9/19/WATER/01365



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	7.9	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	--	7.0	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	0.05	< 0.01	IS 3025 (Part 37):1988 RA 2009

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Digambar
Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



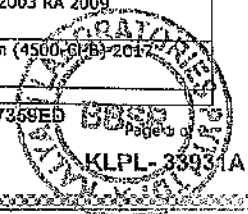
NABL ULR NO : TC704319000002541F

Test Report No : 1235 | 27359EDKLPL/9/19/WATER/01364 **Issue Date** : 09-Oct-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 16-Sep-2019 **Test Commenced On** : 16-Sep-2019 **Test Completion On**: 26-Sep-2019
Sample Description : **SURFACE WATER**

Sample Condition : SEALED IN 1LTR PET BOTTLE
Sample Identification * : **SURFACE WATER** **Sampling Date** : 15-Sep-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1LTR X 2 **Place of Collection** : STREAM NEAR TENTULIPADAR DT-15.09.2019
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	70	IS: 1622:1981 RA 2009
ii Faecal Coliform	MPN/100ml.	-	24	IS 1622 : 1981 RA 2009
CHEMICAL PARAMETER				
i Chloride as Cl	mg/l, Max	600	8.2	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	0.08	APHA 23rd Edition (4500-NO3 - -E), 2017
iv Temperature	°c	-	25	APHA -----
v Electrical Conductivity	µs/cm	-	36	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	32	APHA 23rd Edition (2540 C), 2017
viii Calcium as Ca	mg/l, Max	-	2.9	APHA 23rd Edition (3500-Ca-B), 2017
ix Magnesium as Mg	mg/l, Max	-	2.67	APHA 23rd Edition (3500-Mg-B), 2017
x Chemical Oxygen Demand	mg/l, Max	-	58	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, Min	4.0	6.5	APHA 23rd Edition(4500-O-C), 2017
xiii Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	3.0	10	APHA 23rd Edition 2012(5210 B), 2017
xiv Total Hardness as CaCO3	mg/l, Max	--	18	APHA 23rd Edition (2340 C), 2017
xv Total Alkalinity	mg/l, Max	-	26	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	0.06	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
xlx 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	---	0.06	APHA-23rd Edition (4500-Cl-B)-2017

1235 | 27359ED





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 1235 | 27359EDKLPL/9/19/WATER/01364



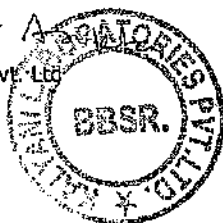
Parameters	Unit	Requirement	Result	Test Method
xxii Aluminum (as Al)	mg/l, Max	--	< 0.01	IS 3025 (Part 55): 2003 RA 2009
xxiii Polynuclear Aromatic Hydrocarbon	mg/l, Max	--	< 0.0001	APHA 6440
PHYSICAL PARAMETER				
i Color	--	300	< 1.0	APHA 23rd Edition (2120 B), 2017
ii pH Value	--	6.5-8.5	8.0	APHA 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	--	0.3	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	0.05	< 0.01	IS 3025 (Part 37):1988 RA 2009

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Digambar A
Authorized Signatory
For Kalyani Laboratories Pvt. Ltd



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000002629P

Test Report No : 262 | 3007A45 KLPL/09/19/ENVN/00339

Issue Date : 18-Oct-2019

Rereference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

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

Date of receipt : 30-Sep-2019 Commenced On : 30-Sep-2019

Completion On: 30-Sep-2019

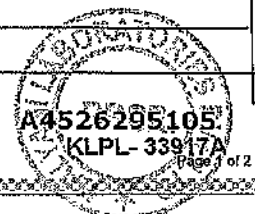
Sample Name : NOISE

Sample Condition : --

Quantity : 10 NOS

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

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : BALABHADRAPUR, 24.09.2019				
Noise Level Indl. Area (Day)	dB	55	52.6	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	45	38.1	IS 9989:1981 (RA 2014)
Location & Date : BASANTAPADA, 26.09.2019				
Noise Level Indl. Area (Day)	dB	55	48.3	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	45	33.8	IS 9989:1981 (RA 2014)
Location & Date : CHHATRAPUR, 26.09.2019				
Noise Level Indl. Area (Day)	dB	55	47.1	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	45	35.1	IS 9989:1981 (RA 2014)
Location & Date : HAREKRISHANAPUR, 25.09.2019				
Noise Level Indl. Area (Day)	dB	55	51.1	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	45	37.2	IS 9989:1981 (RA 2014)
Location & Date : KASIBADI, 25.09.2019				
Noise Level Indl. Area (Day)	dB	55	48.7	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	45	35.6	IS 9989:1981 (RA 2014)
Location & Date : LANJIGARH, 23.09.2019				
Noise Level Indl. Area (Day)	dB	55	53.2	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	45	43.1	IS 9989:1981 (RA 2014)
Location & Date : MASKAPADAR, 27.09.2019				
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, 24.09.2019				
Noise Level Indl. Area (Day)	dB	55	52.0	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	45	40.0	IS 9989:1981 (RA 2014)
Location & Date : PLANT SITE, 23.09.2019				
Noise Level Indl. Area (Day)	dB	75	69.2	IS 9989:1981 (RA 2014)
Noise Level Indl. Area (Night)	dB	70	63.5	IS 9989:1981 (RA 2014)
Location & Date : RENGOPALI, 27.09.2019				
Noise Level Indl. Area (Day)	dB	55	51.6	IS 9989:1981 (RA 2014)



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000002629P

Test Report No : 262 | 3007A45 KLPL/10/19/ENVN/00339

Issue Date : 18-Oct-2019

Rerefrence : -

Customer Name : VEDANTA LIMITED

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

Date of receipt : 30-Sep-2019

Commenced On : 30-Sep-2019

Completion On: 30-Sep-2019

Sample Name : NOISE

Sample Condition : --

Quantity : 2 NOS

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

Parameters	Unit	Standard Value	Results	Test Method
Noise Level Indl. Area (Night)	dB	45	33.6	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.



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KLPL- 33916A

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KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT

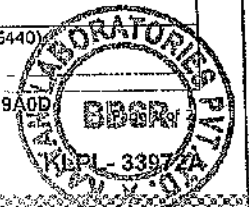


NABL ULR NO : TC704319000002573F
Test Report No : 1258 | 2719A0DKLPL/9/19/WATER/01350 **Issue Date** : 14-Oct-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 16-Sep-2019 **Test Commenced On** : 16-Sep-2019 **Test Completion On**: 26-Sep-2019
Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1LTR PET BOTTLE
Sample Identification * : GROUND WATER **Sampling Date** : 15-Sep-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1LTR X 2 **Place of Collection** : PLANT SITE DT-15.09.2019
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	0.7	IS 3025 (PART 34): 1988 RA 2003
iv Calcium (as Ca)	mg/l, Max	75	26.4	IS 3025 (Part 40):1991 RA 2009
v Chloride (as Cl)	mg/l, Max	250	6.2	IS 3025 (Part 32):1988 RA 2009
vi Copper (as Cu)	mg/l, Max	0.05	< 0.02	IS 3025 (Part 42):1992 RA 2009
vii Fluoride (as F)	mg/l, Max	1	0.08	IS 3025 (Part 60):2008
viii Free residual chlorine	mg/l, Min	0.2	0.2	IS 3025 (Part 26):1986 RA 2009
ix Iron (as Fe)	mg/l, Max	1	0.75	IS 3025 (Part 53):2003 RA 2014
x Magnesium (as Mg)	mg/l, Max	30	5.35	IS 3025 (Part 46):1994 RA 2003
xi Manganese (as Mn)	mg/l, Max	0.1	< 0.05	IS 3025 (Part 59):2006 RA 2012
xii Selenium (as Se)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 56):2003 RA 2009
xiii Sulphate (as SO4)	mg/l, Max	200	2.0	IS 3025 (Part 24):1986 RA 2009
xiv Total alkalinity (as CaCO3),	mg/l, Max	200	134	IS 3025 (Part 23):1986 RA 2009
xv Total hardness (as CaCO3),	mg/l, Max	200	88	IS 3025 (Part 21):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):2003 RA 2009
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)

1258 | 2719A0DKLPL



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



Test Report No : **1258 | 2719A0DKLPL/9/19/WATER/01350**



Parameters	Unit	Requirement	Result	Test Method
xxii Mercury	mg/l, max	0.001	< 0.0005	IS 3025 (Part 48)
xxiii TOTAL PESTISIDE	mg/l, max	0.0005	< 0.0001	JSEPA
PHYSICAL PARAMETER				
i Conductivity	ms/cm	---	0.135	IS 3025 (Part 11):1983 RA 2012
ii Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
iii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iv pH value	---	6.5-8.5	6.9	IS 3025 (Part-11):1983, RA 2012
v Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
vi Turbidity	NTU, Max	1	0.9	IS 3025 (Part 10):1984 RA 2006
vii Total dissolved solids	mg/l, Max	500	140	IS 3025 (Part 16):1984 RA 2006
viii Temperature	deg C	--	25	---

Remarks : nil

Any unusual feature observed during determination : nil

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

Disambur
Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



TEST REPORT



NABL ULR NO : TC704319000002574F

Test Report No : 1259 | 2722A0EKLPL/9/19/WATER/01351 **Issue Date** : 14-Oct-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 16-Sep-2019 **Test Commenced On** : 16-Sep-2019 **Test Completion On**: 26-Sep-2019
Sample Description : **DRINKING WATER (IS 10500:2012)**

Sample Condition : SEALED IN 1LTR PET BOTTLE
Sample Identification * : **GROUND WATER** **Sampling Date** : 15-Sep-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1LTR X 2 **Place of Collection** : BOREWELL AT LANJIGARH DT-15.09.2019
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 Nitrate as NO3	mg/l, Max	45	4.2	IS 3025 (PART 34): 1988 RA 2003
ii Calcium (as Ca)	mg/l, Max	75	51.0	IS 3025 (Part 40):1991 RA 2009
iii Chloride (as Cl)	mg/l, Max	250	37.1	IS 3025 (Part 32):1988 RA 2009
iv Copper (as Cu)	mg/l, Max	0.05	< 0.02	IS 3025 (Part 42):1992 RA 2009
v Fluoride (as F)	mg/l, Max	1	0.07	IS 3025 (Part 60):2008
vi Iron (as Fe)	mg/l, Max	1	0.1	IS 3025 (Part 53):2003 RA 2014
vii Magneslum (as Mg)	mg/l, Max	30	16.04	IS 3025 (Part 46):1994 RA 2003
viii Manganese (as Mn)	mg/l, Max	0.1	< 0.05	IS 3025 (Part 59):2006 RA 2012
ix Selenium (as Se)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 56):2003 RA 2009
x Sulphate (as SO4)	mg/l, Max	200	4.0	IS 3025 (Part 24):1986 RA 2009
xi Total alkalinity (as CaCO3),	mg/l, Max	200	197	IS 3025 (Part 23):1986 RA 2009
xii Total hardness (as CaCO3),	mg/l, Max	200	194	IS 3025 (Part 21):2009
xiii Aluminum (as Al)	mg/l, Max	0.03	< 0.02	IS 3025 (PART 55):2003 RA 2009
xiv Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	< 0.1	Annex - K OF IS 13428:2005 RA 2009
xv Boron (as B)	mg/l, Max	0.5	< 0.1	Annex H OF IS 13428 : 2005 RA 2009
xvi phosphate as (PO4)	mg/l	---	< 0.1	APHA 22nd Edition (4500-P-D)
xvii Free residual chlorine	mg/l, Min	0.2	0.2	IS 3025 (Part 26):1986 RA 2009
xviii Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
xix Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	< 0.0001	APHA 22nd Edition (6440)
xx TOTAL PESTISIDE	mg/l, max	0.0005	< 0.0001	USEPA

PHYSICAL PARAMETER



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

Test Report No : 1259 | 2722A0EKLPL/9/19/WATER/01351



Parameters	Unit	Requirement	Result	Test Method
i Conductivity	ms/cm	---	0.442	IS 3025 (Part 11):1983 RA 2012
ii Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
iii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iv pH value	---	6.5-8.5	7.3	IS 3025 (Part-11):1983, RA 2012
v Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
vi Turbidity	NTU, Max	1	0.6	IS 3025 (Part 10):1984 RA 2006
vii Total dissolved solids	mg/l, Max	500	280	IS 3025 (Part 16):1984 RA 2006
viii Temperature	deg C	--	25	---
TOXIC SUBSTANCES				
i Lead (as Pb)	mg/l, Max	0.01	< 0.005	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 Total arsenic (as As)	mg/l, Max	0.01	< 0.001	IS 3025 (Part 37):1988 RA 2009

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Digambar A
 Authorized Signatory
 For Kalyani Laboratories Pvt. Ltd





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002575F

Test Report No : 1260 | 2723A0FKLPL/9/19/WATER/01352 **Issue Date** : 14-Oct-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

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

Date of receipt : 16-Sep-2019 **Test Commenced On** : 16-Sep-2019 **Test Completion On** : 26-Sep-2019

Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1LTR PET BOTTLE

Sample Identification * : GROUND WATER **Sampling Date** : 15-Sep-2019

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

Received Quantity : 1LTR X 2 **Place of Collection** : BOREWELL AT RANGOPALI DT-15.09.2019

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 Nitrate as NO3	mg/l, Max	45	0.5	IS 3025 (PART 34): 1988 RA 2003
ii Calcium (as Ca)	mg/l, Max	75	14.1	IS 3025 (Part 40):1991 RA 2009
iii Chloride (as Cl)	mg/l, Max	250	6.2	IS 3025 (Part 32):1988 RA 2009
iv Copper (as Cu)	mg/l, Max	0.05	< 0.02	IS 3025 (Part 42):1992 RA 2009
v Fluoride (as F)	mg/l, Max	1	0.06	IS 3025 (Part 60):2008
vi Free residual chlorine	mg/l, Min	0.2	0.2	IS 3025 (Part 26):1986 RA 2009
vii Iron (as Fe)	mg/l, Max	1	< 0.05	IS 3025 (Part 53):2003 RA 2014
viii Magnesium (as Mg)	mg/l, Max	30	4.37	IS 3025 (Part 46):1994 RA 2003
ix Manganese (as Mn)	mg/l, Max	0.1	< 0.05	IS 3025 (Part 59):2006 RA 2012
x Selenium (as Se)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 56):2003 RA 2009
xi Sulphate (as SO4)	mg/l, Max	200	1.0	IS 3025 (Part 24):1986 RA 2009
xii Total alkalinity (as CaCO3),	mg/l, Max	200	43	IS 3025 (Part 23):1986 RA 2009
xiii Total hardness (as CaCO3),	mg/l, Max	200	53	IS 3025 (Part 21):2009
xiv Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
xv Aluminum (as Al)	mg/l, Max	0.03	< 0.02	IS 3025 (PART 55):2003 RA 2009
xvi Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	< 0.1	Annex - K OF IS 13428:2005 RA 2009
xvii Boron (as B)	mg/l, Max	0.5	< 0.1	Annex H OF IS 13428 : 2005 RA 2009
xviii phosphate as (PO4)	mg/l	---	< 0.1	APHA 22nd Edition (4500-P-D)
xix Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	< 0.0001	APHA 22nd Edition (6440)
xx TOTAL PESTISIDE	mg/l, max	0.0005	< 0.0001	USEPA

PHYSICAL PARAMETER

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LABORATORIES PVT. LTD. KLPL-33968A

KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



Test Report No : **1260 | 2723A0FKLPL/9/19/WATER/01352**



Parameters	Unit	Requirement	Result	Test Method
i Conductivity	ms/cm	---	0.096	IS 3025 (Part 11):1983 RA 2012
ii Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
iii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iv pH value	---	6.5-8.5	6.92	IS 3025 (Part-11):1983, RA 2012
v Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
vi Turbidity	NTU, Max	1	0.5	IS 3025 (Part 10):1984 RA 2006
vii Total dissolved solids	mg/l, Max	500	70	IS 3025 (Part 16):1984 RA 2006
viii Temperature	deg C	--	25	---
TOXIC SUBSTANCES				
i Lead (as Pb)	mg/l, Max	0.01	< 0.005	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 Total arsenic (as As)	mg/l, Max	0.01	< 0.001	IS 3025 (Part 37):1988 RA 2009

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Digambar Anand
 Authorized Signatory
 For Kalyani Laboratories Pvt. Ltd.

KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000002576F

Test Report No : 1261 | 2724A10KLPL/9/19/WATER/01353 **Issue Date** : 14-Oct-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

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

Date of receipt : 16-Sep-2019 **Test Commenced On** : 16-Sep-2019 **Test Completion On**: 26-Sep-2019

Sample Description : **DRINKING WATER (IS 10500:2012)**

Sample Condition : SEALED IN 1LTR PET BOTTLE

Sample Identification * : **GROUND WATER** **Sampling Date** : 15-Sep-2019

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

Received Quantity : 1LTR X 2 **Place of Collection** : BOREWELL OF CHHATRAPUR DT-15.09.2019

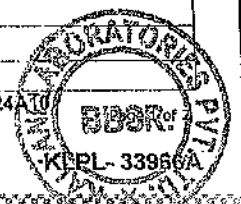
Sample Collected By : By KLPL

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 Nitrate as NO ₃	mg/l, Max	45	2.4	IS 3025 (PART 34): 1988 RA 2003
ii Calcium (as Ca)	mg/l, Max	75	44	IS 3025 (Part 40):1991 RA 2009
iii Chloride (as Cl)	mg/l, Max	250	10.3	IS 3025 (Part 32):1988 RA 2009
iv Copper (as Cu)	mg/l, Max	0.05	< 0.02	IS 3025 (Part 42):1992 RA 2009
v Fluoride (as F)	mg/l, Max	1	0.3	IS 3025 (Part 60):2008
vi Free residual chlorine	mg/l, Min	0.2	0.2	IS 3025 (Part 26):1986 RA 2009
vii Iron (as Fe)	mg/l, Max	1	< 0.05	IS 3025 (Part 53):2003 RA 2014
viii Magnesium (as Mg)	mg/l, Max	30	26.73	IS 3025 (Part 46):1994 RA 2003
ix Manganese (as Mn)	mg/l, Max	0.1	< 0.05	IS 3025 (Part 59):2006 RA 2012
x Selenium (as Se)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 56):2003 RA 2009
xi Sulphate (as SO ₄)	mg/l, Max	200	3.0	IS 3025 (Part 24):1986 RA 2009
xii Total alkalinity (as CaCO ₃),	mg/l, Max	200	168	IS 3025 (Part 23):1986 RA 2009
xiii Total hardness (as CaCO ₃),	mg/l, Max	200	176	IS 3025 (Part 21):2009
xiv Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
xv Aluminum (as Al)	mg/l, Max	0.03	< 0.02	IS 3025 (PART 55):2003 RA 2009
xvi Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	< 0.1	Annex - K OF IS 13428:2005 RA 2009
xvii Boron (as B)	mg/l, Max	0.5	< 0.1	Annex H OF IS 13428 : 2005 RA 2009
xviii phosphate as (PO ₄)	mg/l	---	< 0.1	APHA 22nd Edition (4500-P-D)
xix Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	< 0.0001	APHA 22nd Edition (6440)
xx TOTAL PESTISIDE	mg/l, max	0.0005	< 0.0001	USEPA

PHYSICAL PARAMETER

1261 | 2724A10



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



Test Report No : **1261 | 2724A10KLPL/9/19/WATER/01353**



Parameters	Unit	Requirement	Result	Test Method
i Conductivity	ms/cm	---	0.339	IS 3025 (Part 11):1983 RA 2012
ii Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
iii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iv pH value	---	6.5-8.5	7.45	IS 3025 (Part-11):1983, RA 2012
v Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
vi Turbidity	NTU, Max	1	0.5	IS 3025 (Part 10):1984 RA 2006
vii Total dissolved solids	mg/l, Max	500	220	IS 3025 (Part 16):1984 RA 2006
viii Temperature	deg C	--	25	---

TOXIC SUBSTANCES

i Lead (as Pb)	mg/l, Max	0.01	< 0.005	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 Total arsenic (as As)	mg/l, Max	0.01	< 0.001	IS 3025 (Part 37):1988 RA 2009

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Digambar A...
 Authorized Signatory
 For Kalyani Laboratories Pvt. Ltd



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



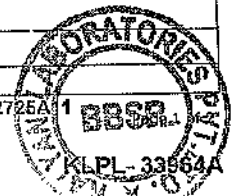
NABL ULR NO : TC704319000002577F
Test Report No : 1262 | 2725A11KLPL/9/19/WATER/01354 **Issue Date** : 14-Oct-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 16-Sep-2019 **Test Commenced On** : 16-Sep-2019 **Test Completion On**: 26-Sep-2019
Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1LTR PET BOTTLE
Sample Identification * : GROUND WATER **Sampling Date** : 15-Sep-2019
Batch No, Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1LTR X 2 **Place of Collection** : BORE WELL OF CHANALIMA DT-15.09.2019
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 Nitrate as NO ₃	mg/l, Max	45	0.25	IS 3025 (PART 34): 1988 RA 2003
ii Calcium (as Ca)	mg/l, Max	75	12.3	IS 3025 (Part 40):1991 RA 2009
iii Chloride (as Cl)	mg/l, Max	250	14.3	IS 3025 (Part 32):1988 RA 2009
iv Copper (as Cu)	mg/l, Max	0.05	< 0.02	IS 3025 (Part 42):1992 RA 2009
v Fluoride (as F)	mg/l, Max	1	< 0.05	IS 3025 (Part 60):2008
vi Free residual chlorine	mg/l, Min	0.2	0.2	IS 3025 (Part 26):1986 RA 2009
vii Iron (as Fe)	mg/l, Max	1	0.55	IS 3025 (Part 53):2003 RA 2014
viii Magnesium (as Mg)	mg/l, Max	30	4.13	IS 3025 (Part 46):1994 RA 2003
ix Manganese (as Mn)	mg/l, Max	0.1	< 0.05	IS 3025 (Part 59):2006 RA 2012
x Selenium (as Se)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 56):2003 RA 2009
xi Sulphate (as SO ₄)	mg/l, Max	200	< 1.0	IS 3025 (Part 24):1986 RA 2009
xii Total alkalinity (as CaCO ₃),	mg/l, Max	200	57	IS 3025 (Part 23):1986 RA 2009
xiii Total hardness (as CaCO ₃),	mg/l, Max	200	48	IS 3025 (Part 21):2009
xiv Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
xv Aluminum (as Al)	mg/l, Max	0.03	< 0.02	IS 3025 (PART 55):2003 RA 2009
xvi Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	< 0.1	Annex - K OF IS 13428:2005 RA 2009
xvii Boron (as B)	mg/l, Max	0.5	< 0.1	Annex H OF IS 13428 : 2005 RA 2009
xviii phosphate as (PO ₄)	mg/l	---	0.11	APHA 22nd Edition (4500-P-D)
xix Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	< 0.0001	APHA 22nd Edition (6440)
xx TOTAL PESTISIDE	mg/l, max	0.0005	< 0.0001	USEPA

PHYSICAL PARAMETER

1262 | 2725A11



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA



Test Report No : 1262 | 2725A11KLPL/9/19/WATER/01354



Parameters	Unit	Requirement	Result	Test Method
i Conductivity	ms/cm	---	82	IS 3025 (Part 11):1983 RA 2012
ii Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
iii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iv pH value	---	6.5-8.5	6.85	IS 3025 (Part-11):1983, RA 2012
v Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
vi Turbidity	NTU, Max	1	0.9	IS 3025 (Part 10):1984 RA 2006
vii Total dissolved solids	mg/l, Max	500	58	IS 3025 (Part 16):1984 RA 2006
viii Temperature	deg C	--	25	---
TOXIC SUBSTANCES				
i Lead (as Pb)	mg/l, Max	0.01	< 0.005	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 Total arsenic (as As)	mg/l, Max	0.01	< 0.001	IS 3025 (Part 37):1988 RA 2009

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Digambar Arou
 Authorized Signatory
 For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000002581F
Test Report No : 1266 | 2729A15KLPL/9/19/WATER/01358 **Issue Date** : 14-Oct-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 16-Sep-2019 **Test Commenced On** : 16-Sep-2019 **Test Completion On**: 26-Sep-2019
Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1LTR PET BOTTLE
Sample Identification * : GROUND WATER **Sampling Date** : 15-Sep-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1LTR X 2 **Place of Collection** : BORE WELL AT BATERLIMA DT-15.09.2019
Sample Collected By : By KLPL
Ref.To Sampling Procedure: KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
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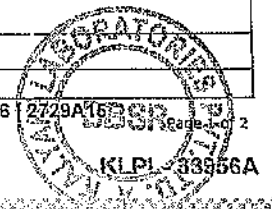
BACTERIOLOGICAL QUALITY

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	Nitrate as NO3	mg/l, Max	45	5.2	IS 3025 (PART 34): 1988 RA 2003
ii	Calcium (as Ca)	mg/l, Max	75	47.5	IS 3025 (Part 40):1991 RA 2009
iii	Chloride (as Cl)	mg/l, Max	250	24.7	IS 3025 (Part 32):1988 RA 2009
iv	Copper (as Cu)	mg/l, Max	0.05	< 0.02	IS 3025 (Part 42):1992 RA 2009
v	Fluoride (as F)	mg/l, Max	1	0.4	IS 3025 (Part 60):2008
vi	Free residual chlorine	mg/l, Min	0.2	0.3	IS 3025 (Part 26):1986 RA 2009
vii	Iron (as Fe)	mg/l, Max	1	0.65	IS 3025 (Part 53):2003 RA 2014
viii	Magnesium (as Mg)	mg/l, Max	30	12.88	IS 3025 (Part 46):1994 RA 2003
ix	Manganese (as Mn)	mg/l, Max	0.1	< 0.05	IS 3025 (Part 59):2006 RA 2012
x	Selenium (as Se)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 56):2003 RA 2009
xi	Sulphate (as SO4)	mg/l, Max	200	18	IS 3025 (Part 24):1986 RA 2009
xii	Total alkalinity (as CaCO3),	mg/l, Max	200	192	IS 3025 (Part 23):1986 RA 2009
xiii	Total hardness (as CaCO3),	mg/l, Max	200	172	IS 3025 (Part 21):2009
xiv	Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
xv	Aluminum (as Al)	mg/l, Max	0.03	< 0.02	IS 3025 (PART 55):2003 RA 2009
xvi	Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	< 0.1	Annex - K OF IS 13428:2005 RA 2009
xvii	Boron (as B)	mg/l, Max	0.5	< 0.1	Annex H OF IS 13428 : 2005 RA 2009
xviii	phosphate as (PO4)	mg/l	---	< 0.1	APHA 22nd Edition (4500-P-D)
xix	Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	< 0.0001	APHA 22nd Edition (6440)
xx	TOTAL PESTISIDE	mg/l, max	0.0005	< 0.0001	USEPA

PHYSICAL PARAMETER



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

Test Report No : 1266 | 2729A15KLPL/9/19/WATER/01358



Parameters	Unit	Requirement	Result	Test Method
i Conductivity	ms/cm	---	0.252	IS 3025 (Part 11):1983 RA 2012
ii Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
iii Odour	---	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iv pH value	---	6.5-8.5	7.1	IS 3025 (Part-11):1983, RA 2012
v Taste	---	Agreeable	AGREEABLE	IS 3025 (Parts 6):1984 RA 2006
vi Turbidity	NTU, Max	1	0.5	IS 3025 (Part 10):1984 RA 2006
vii Total dissolved solids	mg/l, Max	500	242	IS 3025 (Part 16):1984 RA 2006
viii Temperature	deg C	---	25	---
TOXIC SUBSTANCES				
i Lead (as Pb)	mg/l, Max	0.01	< 0.005	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 Total arsenic (as As)	mg/l, Max	0.01	< 0.001	IS 3025 (Part 37):1988 RA 2009

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Digambar A
Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000002582F
Test Report No : 1267 | 2730A16KLPL/9/19/WATER/01359 **Issue Date** : 14-Oct-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027
Date of receipt : 16-Sep-2019 **Test Commenced On** : 16-Sep-2019 **Test Completion On**: 26-Sep-2019
Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1LTR PET BOTTLE
Sample Identification * : GROUND WATER **Sampling Date** : 15-Sep-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1LTR X 2 **Place of Collection** : BOREWELL AT BANDHAGUDA DT-15.09.2019
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 Nitrate as NO3	mg/l, Max	45	2.6	IS 3025 (PART 34): 1988 RA 2003
ii Calcium (as Ca)	mg/l, Max	75	28.2	IS 3025 (Part 40):1991 RA 2009
iii Chloride (as Cl)	mg/l, Max	250	14.3	IS 3025 (Part 32):1988 RA 2009
iv Copper (as Cu)	mg/l, Max	0.05	< 0.02	IS 3025 (Part 42):1992 RA 2009
v Fluoride (as F)	mg/l, Max	1	0.2	IS 3025 (Part 60):2008
vi Free residual chlorine	mg/l, Min	0.2	0.2	IS 3025 (Part 26):1986 RA 2009
vii Iron (as Fe)	mg/l, Max	1	< 0.05	IS 3025 (Part 53):2003 RA 2014
viii Magnesium (as Mg)	mg/l, Max	30	8.75	IS 3025 (Part 46):1994 RA 2003
ix Manganese (as Mn)	mg/l, Max	0.1	< 0.05	IS 3025 (Part 59):2006 RA 2012
x Selenium (as Se)	mg/l, Max	0.01	< 0.005	IS 3025 (Part 56):2003 RA 2009
xi Sulphate (as SO4)	mg/l, Max	200	7.0	IS 3025 (Part 24):1986 RA 2009
xii Total alkalinity (as CaCO3),	mg/l, Max	200	153	IS 3025 (Part 23):1986 RA 2009
xiii Total hardness (as CaCO3),	mg/l, Max	200	106	IS 3025 (Part 21):2009
xiv Total Chromium	mg/l, Max	0.05	< 0.02	IS 3025 (PART 52): 2003 RA 2009
xv Aluminum (as Al)	mg/l, Max	0.03	< 0.02	IS 3025 (PART 55):2003 RA 2009
xvi Anionic Surface Active Agents (as MBAS)	mg/l, Max	0.2	< 0.1	Annex - K OF IS 13428:2005 RA 2009
xvii Boron (as B)	mg/l, Max	0.5	< 0.1	Annex H OF IS 13428 : 2005 RA 2009
xviii phosphate as (PO4)	mg/l	---	< 0.1	APHA 22nd Edition (4500-P-D)
xix Polynuclear Aromatic Hydrocarbon	mg/l, Max	0.0001	< 0.0001	APHA 22nd Edition (6440)
xx TOTAL PESTICIDE	mg/l, max	0.0005	< 0.0001	USEPA

PHYSICAL PARAMETER

1267 | 2730A16 | 2 of 2

KLPL-38954A

KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 1267 | 2730A16KLPL/9/19/WATER/01359



Parameters	Unit	Requirement	Result	Test Method
i Conductivity	ms/cm	---	0.176	IS 3025 (Part 11):1983 RA 2012
ii Colour	Hazen, Max	5	< 1.0	IS 3025 (Part 4):1983 RA 2012
iii Odour	--	Agreeable	AGREEABLE	IS 3025 (Part 5):1983 RA 2012
iv pH value	---	6.5-8.5	7.3	IS 3025 (Part-11):1983, RA 2012
v Taste	--	Agreeable	AGREEABLE	IS 3025 (Parts 8):1984 RA 2006
vi Turbidity	NTU, Max	1	0.8	IS 3025 (Part 10):1984 RA 2006
vii Total dissolved solids	mg/l, Max	500	158	IS 3025 (Part 16):1984 RA 2006
viii Temperature	deg C	--	25	---
TOXIC SUBSTANCES				
i Lead (as Pb)	mg/l, Max	0.01	< 0.005	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 Total arsenic (as As)	mg/l, Max	0.01	< 0.001	IS 3025 (Part 37):1988 RA 2009

Remarks : NIL

Any unusual feature observed during determination : NIL

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

Digambar A
Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002508P

Test Report No : 1204 | 27539CC/KLPL/9/19/WATER/01382 **Issue Date** : 04-Oct-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

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

Date of receipt : 16-Sep-2019 **Test Commenced On** : 16-Sep-2019 **Test Completion On** : 23-Sep-2019

Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1LTR PET BOTTLE

Sample Identification * : GROUND WATER **Sampling Date** : 15-Sep-2019

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

Received Quantity : 1LTR X 2 **Place of Collection** : OBSERVATION BOREWELL RED MUD POND(WEST)

Sample Collected By : By KLPL **DT-15.09.2019**

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

Parameters	Unit	Requirement	Result	Test Method
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CHEMICAL PARAMETER					
i	Total alkalinity (as CaCO ₃),	mg/l, Max	200	197	IS 3025 (Part 23):1986 RA 2009
ii	Total hardness (as CaCO ₃),	mg/l, Max	200	198	IS 3025 (Part 21):2009
iii	Zinc (as Zn)	mg/l, Max	5	0.045	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):2003 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





KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No : 1204 | 27539CCKLPL/9/19/WATER/01382



Parameters	Unit	Requirement	Result	Test Method
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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

Kalyani Laboratories

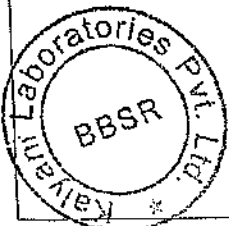
TEST REPORT



NABL ULR NO : TC704319000002516P
Test Report No : 1212 | 275790000KLPL/9/19/WATER/01386 **Issue Date** : 04-Oct-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 16-Sep-2019 **Test Commenced On** : 16-Sep-2019 **Test Completion On** : 23-Sep-2019
Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1LTR PET BOTTLE
Sample Identification * : GROUND WATER **Sampling Date** : 15-Sep-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1LTR X 2 **Place of Collection** : OBSERVATION BOREWELL POCCESS WATER LAKE(NORTH) DT-15.09.2019
Sample Collected By : By KLPL
Ref.To Sampling Procedure : KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
CHEMICAL PARAMETER				
i Total alkalinity (as CaCO ₃),	mg/l, Max	200	46	IS 3025 (Part 23):1986 RA 2009
ii Total hardness (as CaCO ₃),	mg/l, Max	200	22	IS 3025 (Part 21):2009
iii Zinc (as Zn)	mg/l, Max	5	0.008	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):2003 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 B):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

Kalyani Laboratories

Test Report No : 1212 | 275790000KLPL/9/19/WATER/01386

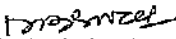


Parameters	Unit	Requirement	Result	Test Method
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Remarks : NIL

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 : TC70431900002520P
Test Report No : 1216 | KLPL/9/19/WATER/01390 **Issue Date** : 04-Oct-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 16-Sep-2019 **Test Commenced On** : 16-Sep-2019 **Test Completion On** : 23-Sep-2019
Sample Description : DRINKING WATER (IS 10500:2012)

Sample Condition : SEALED IN 1LTR PET BOTTLE
Sample Identification * : GROUND WATER **Sampling Date** : 15-Sep-2019
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1LTR X 2 **Place of Collection** : OBSERVATION BOREWELL ASHPOND(NORTH)
Sample Collected By : By KLPL DT-15.09.2019
Ref.To Sampling Procedure : KLPL/SOP/CHEM-28

Parameters	Unit	Requirement	Result	Test Method
CHEMICAL PARAMETER				
i Total alkalinity (as CaCO ₃),	mg/l, Max	200	31	IS 3025 (Part 23):1986 RA 2009
ii Total hardness (as CaCO ₃),	mg/l, Max	200	14	IS 3025 (Part 21):2009
iii Zinc (as Zn)	mg/l, Max	5	0.007	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):2003 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





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78/944, PAHAL, BHUBANESWAR-752101, ODISHA

Test Report No

1216 | KLPL/9/19/WATER/01390



Parameters	Unit	Requirement	Result	Test Method
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Remarks : NIL

Any unusual feature observed during determination : NIL

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

[Signature]

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd

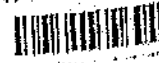




KALYANI LABORATORIES PVT. LTD.

28/11, PATIALA, BHUBANESWAR-751011, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002011P
Test Report No : 178 | 23497DB KLPL/7/19/ENVH/001
Reference : 6600011158 DATE: 16.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 08-Jul-2019 **Commenced On** : 08-Jul-2019
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ADSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO.
Ref. To Sampling Procedure : KLPL/SOP/AR-06

Issue Date : 07-Aug-2019

Completion On : 13-Jul-2019

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : PLANT SITE, 01.07.2019				
Sulphur Dioxide	µg/m ³	80	10.13	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	21.09	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	48.42	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.85	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	12.5	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 (C6H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (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	5.9	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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For Kalyani Laboratories Pvt. Ltd.



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KLPL-322448



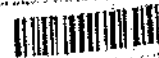
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KALYANI LABORATORIES PVT. LTD.

KALYANI PATAL BHUBANESWAR-751004 ODISHA

TEST REPORT



NABL ULR NO : TC70431900002011P
Test Report No : 170 | 2349700 KLPL/17/19/ENVN/002
Issue Date : 07-Aug-2019
Reference : G600011158 DATE: 16.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 08-Jul-2019 **Commenced On :** 08-Jul-2019 **Completion On :** 13-Jul-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, 02.07.2019				
Sulphur Dioxide	µg/m ³	80	7.35	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	16.45	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	64.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	35.31	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	4.9	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
Benz(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

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KLPL-32251A1



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TOTAL KALANI, IND. PARK, BANGALORE, KARNATAKA, INDIA

Kalyani Laboratories

TEST REPORT

NABL ULR NO. : TC704319000002011P
Test Report No : 178 | 23497DB KLPL/7/19/ENVN/003
Reference : 0600011158 DATE: 15.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 08-Jul-2019 **Commenced On** : 08-Jul-2019 **Completion On** : 13-Jul-2019
Issue Date : 07-Aug-2019
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO.
Ref. To Sampling Procedure: KLPU/SOP/AIR-06

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : MID DAY MEAL, 03.07.2019				
Sulphur Dioxide	µg/m ³	80	8.14	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	16.38	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	60.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	43.20	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.65	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
Benzo (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 *****

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KLPL-322498



KALYANI LABORATORIES PVT. LTD.

78-11, PALLI, BIRJANESWAR, 751011, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000002011P
Test Report No : 17B | 23497DB KLPL/7/19/ENVH/004
Reference : 6600011158 DATE: 16.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 08-Jul-2019 Commenced On : 08-Jul-2019 **Completion On:** 13-Jul-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, 05.07.2019				
Sulphur Dioxide	µg/m ³	80	6.11	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	28.33	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	42.38	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	6.1	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
Benzo (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

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 KLPL-32248A



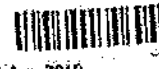
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KALYANI LABORATORIES PVT. LTD.

100, PALLADI, BANGALORE, KARNATAKA, INDIA

TEST REPORT



NABL ULR NO : TC704319000002011P
Test Report No : 170 | 23497DB KLPL/7/19/ENVH/005
Reference : 660011151 | DATE: 16.07.2019
Customer Name : VEDANTA LIMITED, LANJIGARIH
Address : PO - LANJIGARIH, DIST. - RAJAHMUNDRI, ODISHA-766027.
Date of receipt : 08-Jul-2019 | Commenced On : 08-Jul-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

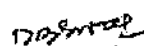
Issue Date : 07-Aug-2019

Completion On: 13-Jul-2019

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : BELAMBA VILLAGE, 06.07.2019				
Sulphur Dioxide	µg/m ³	80	5.24	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	15.45	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	89.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	38.14	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.44	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	160	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	< 1.0	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
Benzo (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


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7DB20113733
 KLPL-3224A1



KALYANI LABORATORIES PVT. LTD.

78945, PALAM, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL URL NO : TC704319000002011P
Test Report No : 178 | 23497DB KLPL/7/19/ENVN/006
Reference : 660011159 DATE: 16.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 15-Jul-2019 Commenced On : 15-Jul-2019 **Completion On:** 20-Jul-2019
Issue Date : 07-Aug-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, 08.07.2019				
Sulphur Dioxide	µg/m ³	80	9.20	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	23.13	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	44.26	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.54	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	17.8	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
Benzo (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	5.8	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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 For Kalyani Laboratories Pvt. Ltd.



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KLPL-3227341



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KALYANI LABORATORIES PVT. LTD.

28014, PAHAL BHUBANESWAR-751018, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002011P
Test Report No : 178 | 23497DD KLPL/7/19/EHVN/007
Reference : 660001158 DATE: 16.07.2019
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALANANDI, ODISHA-766027.
Date of receipt : 15-Jul-2019 **Commented On :** 15-Jul-2019 **Completion On:** 20-Jul-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

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : Chhatrapur Village, 09.07.2019				
Sulphur Dioxide	µg/m ³	80	6.35	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	17.14	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	58.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	27.50	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 (O ₃) (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 (NH ₃)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C ₆ H ₆)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benz(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

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For Kalyani Laboratories Pvt. Ltd.



7DB20113733
KLPL-32247A



KALYANI LABORATORIES PVT. LTD.

78/41 PATAI, BHUBANESWAR-75101, ODISHA

Kalyani Laboratories

TEST REPORT

Issue Date : 07-Aug-2019

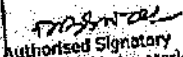
NABL ULR NO : TC704319000002011P
Test Report No : 178 | 23497DB KLPL/7/19/EHVN/003
Reference : 6600011158 DATE: 16.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 15-Jul-2019 **Commenced On** : 15-Jul-2019
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ADSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO.
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Completion On: 20-Jul-2019

Parameters	Unit	Standard Value	Result	Test Method
Location & Date : MID DAY MEAL, 10.07.2019				
Sulphur Dioxide	µg/m ³	80	7.63	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	19.33	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	39.48	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	3.1	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	< 1.0	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


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 For Kalyani Laboratories Pvt. Ltd.



7DB20113733
KLPL-32272A

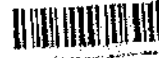




KALYANI LABORATORIES PVT. LTD.

TRADE PALM, BILDASHESWAR, JSR, ODISHA

TEST REPORT



NABL ULR NO : TC70431900002011P
Test Report No : 178 | 23497DB KLPL/7/19/ENVH/009
Reference : 6600011158 DATE: 16.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 15-Jul-2019 **Commenced On** : 15-Jul-2019
Issue Date : 07-Aug-2019
Completion On : 20-Jul-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

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 11.07.2019				
Sulphur Dioxide	µg/m ³	80	8.40	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	21.21	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	43.11	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	94	0.50	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
Benzo (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	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

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KLPL-332744



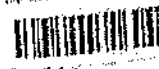
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77/11, RAJAL, BHD, BANIGANAP, VISAKHAPATNAM, ANDHRA PRADESH

Kalyani Laboratories

TEST REPORT



NATH. USR NO : TC704310000002011P
Test Report No : 170 | 33497DD KLPL/7/19/ENVII/010
Reference : G600011190 DATE: 16.07.2019
Customer Name : VEDANTA LIMITED, LANJIGARI
Address : PO., LANJIGARI, DIST., KALAHANDI, ODISHA-756027,
Date of receipt : 19-Jul-2019 Commenced On : 15-Jul-2019
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO.
Ref. To Sampling Procedure : KLM/ISO/AIR-06


Issue Date : 07-Aug-2019

Completion On: 20-Jul-2019

Parameters	Unit	Standard Value	Result	Test Method
Location & Date : REHABILITATION COLONY, 12.07.2019				
Sulphur Dioxide	µg/m ³	80	3.40	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	16.37	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	61.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	30.11	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.79	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	5.9	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	< 1.0	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
Banza (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


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KLPL-32270A



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78004, PALLA, BILHAMESWAR-752101, ODISHA

TEST REPORT



NABL UR NO : TC70431900002011P
Test Report No : 178 | 23497DB KLPL/7/19/ENVN/011
Reference : 6600011158 DATE: 16.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 15-Jul-2019 **Commenced On** : 15-Jul-2019
Issue Date : 07-Aug-2019
Completion On : 20-Jul-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

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : BELAMBIA VILLAGE, 13.07.2019				
Sulphur Dioxide	µg/m ³	80	4.10	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	16.12	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	56.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	36.05	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.42	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	140	3.3	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.01	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benz(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

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 KLPL-32265A



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78014, PATIAL, BHUBANESWAR-75100, ODISHA

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TEST REPORT



NABL URN NO : TC704319000002011P
Test Report No : 178 | 23497DB KLPL/7/19/ENVN/012
Reference : 6600011158 DATE: 16.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 22-Jul-2019 **Commenced On :** 22-Jul-2019 **Completion On:** 27-Jul-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

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : PLANT SITE, 15.07.2019				
Sulphur Dioxide	µg/m ³	80	11.08	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	25.39	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	50	47.42	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.57	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	4 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	08	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	8.1	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL
 Any unusual feature observed during determination : NIL

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 For Kalyani Laboratories Pvt. Ltd.



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 KLPL-32250A



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KALYANI LABORATORIES PVT. LTD.

78544, PAHALI, DHUDANESWAR, 752106, ODISHA

TEST REPORT



NABL ULR NO : YC70431900002011P
Test Report No : 178 / 23497DB KLPL/7/19/ENVN/013 **Issue Date** : 07-Aug-2019
Reference : 6600D11158 **DATE**: 16.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 22-Jul-2019 **Commenced On** : 22-Jul-2019 **Completion On**: 27-Jul-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, 16.07.2019				
Sulphur Dioxide	µg/m ³	80	8.44	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	18.15	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	59.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	38.47	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	150	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)	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

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For Kalyani Laboratories Pvt. Ltd.



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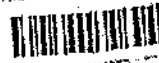


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B-941, PATAL BHUBAN SWAR 752001, ODISHA

Kalyani Laboratories

TEST REPORT




NABL ULR NO : TG704319000002011P
Test Report No : 178 | 23407DB KLPL/7/19/ENVN/D14
Reference : GG00011150 DATE: 16.07.2018
Customer Name : VEDAHTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027
Data of receipt : 22-Jul-2019 **Commenced On :** 22-Jul-2019 **Completion On :** 27-Jul-2019
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO.
Ref. To Sampling Procedure: KLPL/SOP/AR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : MID DAY MEAL, 17.07.2019				
Sulphur Dioxide	µg/m ³	80	6.54	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	64.8	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	39.31	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.66	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.2	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
Benzo (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	08	< 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


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KALYANI LABORATORIES PVT. LTD.

78244, PATNA INDIA (BANKPORE) ANDHRA PRADESH

TEST REPORT



NABL ULR NO : TC704319000002011P
Test Report No : 178 (23497DB KLPL/7/19/ENVII/015)
Reference : 6500011150 DATE: 16.07.2019
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 22-Jul-2019 Commenced On : 22-Jul-2019

Issue Date : 07-Aug-2019

Completion On : 27-Jul-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, 18.07.2019				
Sulphur Dioxide	µg/m ³	80	8.07	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	21.48	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	42.20	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (81 Hrs.)	mg/m ³	04	0.51	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	< 0.03	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 (C6H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (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

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KLPL-32205A





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TEST REPORT

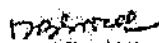


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Test Report No : 178 | 23497DD KLPL/7/19/ENVN/016
Reference : GGD0011158 DATE: 16.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 22-Jul-2019 **Commenced On** : 22-Jul-2019 **Completion On** : 27-Jul-2019
Issue Date : 07-Aug-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	Result	Test Method
Location & Date : REHABILITATION COLONY, 19.07.2019				
Sulphur Dioxide	µg/m ³	80	6.10	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	17.18	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	64.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	38.47	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.80	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	100	6.0	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 (C6H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (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	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL


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 For Kalyani Laboratories Pvt. Ltd.



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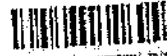


KALYANI LABORATORIES PVT. LTD.

78004, PAHAL, BIRBIJANISWAR-752091, ODISHA

Kalyani Laboratories

TEST REPORT



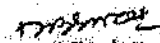
NABL DLR NO : TC704319000002011P
Test Report No : 170 | 23497DB KLPL/7/19/ENVN/017 **Issue Date :** 07-Aug-2019
Reference : 6600011150 DATE: 16.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PG.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 22-Jul-2019 **Commenced On :** 22-Jul-2019 **Completion On:** 27-Jul-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

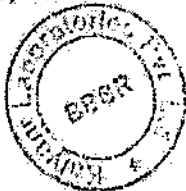
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : BELAMDA VILLAGE, 20.07.2019				
Sulphur Dioxide	µg/m ³	80	5.31	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	16.05	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	60.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	34.34	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.45	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	< 0.01	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 (C6H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (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


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 For Kalyani Laboratories Pvt. Ltd.



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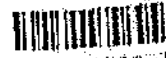




KALYANI LABORATORIES PVT. LTD.

BHAMA, PAHALI, BHUBANESWAR-751011, ODISHA

TEST REPORT



Issue Date : 07-Aug-2019

NABL ULR NO : TC704319000002011P
 Test Report No : 170 | 23497DB KLPL/7/19/ENVH/OID
 Reference : 6600011150 DATE: 16.07.2019
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 29-Jul-2019 Commenced On : 29-Jul-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

Completion On: 03-Aug-2019

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : PLANT SITE, 22.07.2019				
Sulphur Dioxide	µg/m ³	80	10.44	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	22.14	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	20.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	45.26	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.55	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	13.3	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
Benzo (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	5.7	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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



7DB20113733
KLPL-322034





KALYANI LABORATORIES PVT. LTD.

TEST REPORT



NABL ULR NO : TC704319000002011P
 Test Report No : 178 | 23497DB KLPL/7/19/ENVII/G19
 Issue Date : 07-Aug-2019
 Reference : 6600011158 DATE: 16.07.2018
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 29-Jul-2019 Commenced On : 29-Jul-2019 Completion On: 03-Aug-2019
 Sample Name : AMBIENT AIR QUALITY MONITORING
 Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
 Quantity : 1 NO.
 Ref.To Sampling Procedure: KLPL/SOP/ATR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : Chhatrapur Village, 23.07.2019				
Sulphur Dioxide	µg/m ³	80	6.35	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	57.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	39.38	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	3.8	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
Benzo (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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



7DB20113733
KLPL-32281A





KALYANI LABORATORIES PVT. LTD.

78911, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL IZR NO : TC70431900002011P
 Test Report No : 178 | 23497DB KLPL/7/19/ENVN/020 Issue Date : 07-Aug-2019
 Reference : 6600011158 DATE: 16.07.2018
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 29-Jul-2019 Commenced On : 29-Jul-2019 Completion On: 03-Aug-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, 24.07.2019				
Sulphur Dioxide	µg/m ³	80	7.10	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	17.22	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	61.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	40.39	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.64	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.2	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

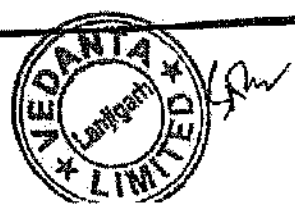
Remarks : NIL

Any unusual feature observed during determination : NIL

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



7DB20113733
KLPL-32250A





KALYANI LABORATORIES PVT. LTD.

ANALYSIS REPORT

TEST REPORT



NABL IIR NO : TC704319000002011P
Test Report No : 176 | 23497DB KLPL/7/19/EHVN/021
Reference : 6500011158 DATE: 16.07.2018
Issue Date : 07-Aug-2019
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO. - LANJIGARH, DIST. - KALAHANDI, ODISHA-766027,
Date of receipt : 29-Jul-2019
Commenced On : 29-Jul-2019
Completion On : 03-Aug-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

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 25.07.2019				
Sulphur Dioxide	µg/m ³	80	8.17	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	20.06	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	300	64.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	38.47	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.45	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.1	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
Benzo (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.



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KALYANI LABORATORIES PVT. LTD.

78941, PAHAL BHUBANESWAR-751011, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002013P
 Test Report No : 178 | 23497DB KLPL/7/19/ENVN/022
 Reference : 6600011150 DATE: 16.07.2018
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 29-Jul-2019 Commenced On : 29-Jul-2019

Issue Date : 07-Aug-2019

Completion On: 03-Aug-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, 26.07.2019				
Sulphur Dioxide	µg/m ³	80	7.12	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	17.50	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	180	57.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	35.25	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	84	0.77	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	5.7	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	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benz(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

[Signature]
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 For Kalyani Laboratories Pvt. Ltd.



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KALYANI LABORATORIES PVT. LTD.

78914, PAHALI BILUBANWAR-752101 ODISHA

Kalyani Laboratories

TEST REPORT

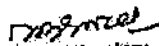


NABL ULR NO : TC704319000002011P
Test Report No : 178 | 13497DB KLPL/7/19/ENVN/023
Reference : 6600011158 DATE: 16.07.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 29-Jul-2019 **Commenced On** : 29-Jul-2019 **Completion On** : 03-Aug-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, 27.07.2019				
Sulphur Dioxide	µg/m ³	80	6.35	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	14.41	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	58.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	30.14	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.43	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	< 1.0	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
Benzo (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	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL


 Authorized Signatory
 For Kalyani Laboratories Pvt. Ltd.



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KALYANI LABORATORIES PVT. LTD.

78-944, PAHALI, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002011P
 Test Report No : 178 | 23497DB KLPL/7739/ENVN/024
 Issue Date : 07-Aug-2019
 Reference : 6600011158 DATE: 16.07.2018
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 31-Jul-2019
 Commenced On : 31-Jul-2019
 Completion On: 03-Aug-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, 29.07.2019				
Sulphur Dioxide	µg/m ³	80	7.26	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	59.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	39.31	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	6.0	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
Benz(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	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

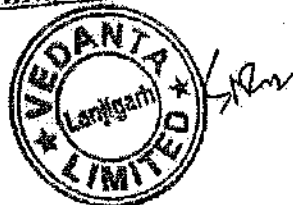
Remarks : NIL

Any unusual feature observed during determination : NIL

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



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Page 1 of 1



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KALYANI LABORATORIES PVT. LTD.

TRAFFIC, PATIALA, DHUDANISWAR-753101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000002292P
Test Report No : 220 | 25588F4 KLPL/9/19/ENVN/001
Reference : G600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 05-Aug-2019 **Commenced On :** 05-Aug-2019 **Completion On :** 10-Aug-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 Values	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 01.08.2019				
Sulphur Dioxide	µg/m ³	80	7.39	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	18.42	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	39.24	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	94	0.49	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	6.2	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 (C6H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (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: *Deba Nayan*
 For Kalyani Laboratories Pvt. Ltd. 31/09/2019



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Page 1 of 1

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S. Roy



KALYANI LABORATORIES PVT. LTD.

78/941, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT

NABL ULR NO : TC704319000002292P

Test Report No : 230 | 2558BF4 KLPL/8/19/ENVN/002

Reference : G600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

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

Date of receipt : 05-Aug-2019

Commenced On : 05-Aug-2019

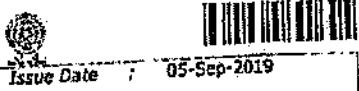
Completion On : 10-Aug-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

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



Parameter	Unit	Standard Value	Results	Test Method
Location & Date : REHABILITATION COLONY, 02.08.2019				
Sulphur Dioxide	µg/m ³	80	5.13	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	15.13	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	60.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	37.17	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.79	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	5.8	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.01	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
Benz(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

Decha Laya
 Authorised Signatory 5/09/2019
 For Kalyani Laboratories Pvt. Ltd.



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 KLPL-32727A
 Page 1 of 1



S.P. Roy

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KALYANI LABORATORIES PVT. LTD.

789/14, PAHAL, BHUDANESWAR-753101, ODISHA

TEST REPORT

NABL ULR NO : TC704319000002292P
 Test Report No : 220 | 25588F4 KLPL/B/19/ENVH/005 Issue Date : 05-Sep-2019
 Reference : 6600011158 / 11.12.2018
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 05-Aug-2019 Commenced On : 05-Aug-2019 Completion On : 10-Aug-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, 03.08.2019					
Sulphur Dioxide	µg/m ³	80	4.21		CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	14.33		CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	57.0		CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	35.24		CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.43		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
Benz(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

Authorized Signatory: *Pooja Nayak*
 For Kalyani Laboratories Pvt. Ltd. 05/09/2019



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Page 1 of 1



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KALYANI LABORATORIES PVT. LTD.

78904, PATIAL, BHUBANESWAR-752 001, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002292P
 Test Report No : 220 | 25588F4 KLPL/S/19/ENVN/004 Issue Date : 05-Sep-2019
 Reference : 6600011158 / 11.12.2018
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-756027.
 Date of receipt : 12-Aug-2019 Commenced On : 12-Aug-2019 Completion On: 17-Aug-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, 05.08.2019				
Sulphur Dioxide	µg/m ³	80	5.31	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	68.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	42.28	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.53	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	12.3	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
Benzo (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	5.7	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

Authorised Signatory *Seeta Laya*
 For Kalyani Laboratories Pvt. Ltd. 5/09/2019



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78/44, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC70431900002292P
Test Report No : 220 | 25588F4 KLPL/8/19/ENVN/005
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 12-Aug-2019
Issue Date : 05-Sep-2019
Completed On : 17-Aug-2019
Commenced On : 12-Aug-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	Result	Test Method
Location & Date : Chhatrapur Village, 06.08.2019					
Sulphur Dioxide	µg/m ³	80	6.22		CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	17.42		CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	55.0		CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	36.33		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

Recha Layan
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



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78/44, PAJAL, BILUPANESWAR-753101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002292P

Test Report No : 220 | 25588F4 KLPL/B/19/ENVN/006 **Issue Date** : 05-Sep-2019

Reference : 6600011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-765027.

Date of receipt : 12-Aug-2019 **Commenced On** : 12-Aug-2019 **Completion On** : 17-Aug-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

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : MID DAY MEAL, 07.08.2019				
Sulphur Dioxide	µg/m ³	80	7.04	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	18.13	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	64.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	40.11	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.66	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.1	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
Benzo (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	10	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

..... End of Test Report

Rekha Loya
 Authorised Signatory, 5/09/2019
 For Kalyani Laboratories Pvt. Ltd.



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 KLPL-33015A



Signature

KALYANI LABORATORIES PVT. LTD.

78/11, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000002292P
Test Report No : 220 | 25588F4 KLPL/B/19/ENVN/807 **Issue Date :** 05-Sep-2019
Reference : 6500011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 12-Aug-2019 **Commenced On :** 12-Aug-2019 **Completion On:** 17-Aug-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

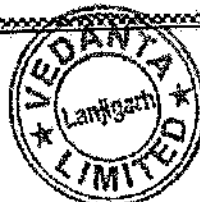
Parameter	Unit	Standard Value	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 08.08.2019				
Sulphur Dioxide	µg/m ³	80	5.31	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	20.41	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	61.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	36.23	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	6.1	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
Benzo (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

Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



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 Page 1 of 1



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78944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC70431900002292P
Test Report No : 220 | 25988P4 KLPL/8/19/ENVN/008 **Issue Date** : 05-Sep-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 12-Aug-2019 **Commenced On** : 12-Aug-2019 **Completion On**: 17-Aug-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	Result	Test Method
Location & Date : REHABILITATION COLONY, 09.08.2019				
Sulphur Dioxide	µg/m³	80	8.42	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m³	80	16.24	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m³	100	82.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m³	50	37.41	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m³	04	0.80	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m³	180	6.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (a) Pyrene (BaP)	µg/m³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

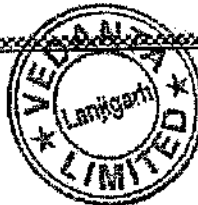
Remarks : NIL

Any unusual feature observed during determination : NIL

Recha Nayak
 Authorised Signatory 5/09/2019
 For Kalyani Laboratories Pvt. Ltd.



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 Page 1 of 1



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78441, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC70431900002292P
Test Report No : 220 | 25588F4 KLPL/B/19/ENVN/009 **Issue Date** : 05-Sep-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 12-Aug-2019 **Commenced On** : 12-Aug-2019 **Completion On** : 17-Aug-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, 10.08.2019				
Sulphur Dioxide	µg/m ³	80	5.13	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	15.15	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	53.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	33.27	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.44	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.2	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

Renuka Nayak
 Authorised Signatory 5/09/2019
 For Kalyani Laboratories Pvt. Ltd.



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 Page 1 of 1



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76934, PAHAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC70431900002292P
Test Report No : 220 | 25588F4 KLPL/8/19/ENVH/010 **Issue Date** : 05-Sep-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 19-Aug-2019 **Completion Onr** : 24-Aug-2019
Commenced On : 19-Aug-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, 12.08.2019				
Sulphur Dioxide	µg/m ³	80	9.14	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	22.09	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	45.22	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.55	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
Benzo (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	6.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL
 Any unusual feature observed during determination : NIL
 End of Test Report

Authorised Signatory *S. 10/9/2019*
 For Kalyani Laboratories Pvt. Ltd.



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 Page 1 of 1





KALYANI LABORATORIES PVT. LTD.

7KPI-1, PATIAL, BHUBANESWAR-752101, ODISHA

NABL ULR NO : TC704319000002292P

TEST REPORT



Test Report No : 220 | 25588F4 KLPL/B/19/ENVN/011 Issue Date : 05-Sep-2019
 Reference : 6600011158 / 11.12.2018
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 19-Aug-2019 Commenced On : 19-Aug-2019 Completion On: 24-Aug-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, 13.08.2019				
Sulphur Dioxide	µg/m ³	80	7.28	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	18.17	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	97.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	50	34.29	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	94	0.46	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	490	< 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
Benzo (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

Seetha Chaya
 Authorised Signatory 5/09/2019
 For Kalyani Laboratories Pvt. Ltd.



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 Page 1 of 1



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78044, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002292P

Test Report No : 220 | 25588F4 KLPL/8/19/ENVH/G12 **Issue Date :** 05-Sep-2019

Reference : 6600011158 / 11.12.2016

Customer Name : VEDANTA LIMITED, LANJIGARH

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

Date of receipt : 19-Aug-2019 **Commenced On :** 19-Aug-2019 **Completion On :** 24-Aug-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

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : MID DAY MEAL, 14.08.2019				
Sulphur Dioxide	µg/m ³	80	6.34	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	19.37	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	52.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	38.38	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	3.0	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
Benzo (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	10	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

Pooja Nayak
 Authorised Signatory 5/09/2019
 For Kalyani Laboratories Pvt. Ltd.



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 KLPL-32731A
 Page 1 of 1





KALYANI LABORATORIES PVT. LTD.

789-H, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC70431900002292P

Test Report No : 220 | 25588F4 KLPL/8/19/ENVN/013 **Issue Date** : 05-Sep-2019

Reference : 6600011159 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

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

Date of receipt : 19-Aug-2019 **Commenced On** : 19-Aug-2019 **Completion On** : 24-Aug-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, 16.08.2019				
Sulphur Dioxide	µg/m ³	80	4.28	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	19.13	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	64.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	37.38	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	6.1	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
Benzo (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

Debasish Nayak
 25/09/2019
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



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 RLPL-32730A
 Page 1 of 1



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KALYANI LABORATORIES PVT. LTD.

78/94, PAHAL, BHUBANESWAR-752101, ODISHA

NABL ULR NO : TC70431900002292P

TEST REPORT



Test Report No : 220 | ZSS88F4 KLPL/8/19/ENVN/014

Issue Date : 05-Sep-2019

Reference : 6600011156 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

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

Date of receipt : 19-Aug-2019 **Commenced On** : 19-Aug-2019

Completion On : 24-Aug-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, 17.08.2019				
Sulphur Dioxide	µg/m ³	80	4.11	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	16.17	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	58.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	32.43	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.44	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.2	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
Benzo (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

Preeti Kalyan
 5/09/2019
 Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



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 KLPL-32728A
 Page 1 of 1

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KALYANI LABORATORIES PVT. LTD.

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

TEST REPORT



NABL ULR NO : TC70431900002292P
Test Report No : 220 | 25588F4 KLPL/8/19/ENVH/015
Issue Date : 05-Sep-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 26-Aug-2019 **Commenced On** : 26-Aug-2019 **Completion On**: 31-Aug-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

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : PLANT SITE, 19.08.2019				
Sulphur Dioxide	µg/m ³	80	7.42	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	21.11	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	50	42.14	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.52	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	12.25	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
Benzo (b) 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	5.75	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL
 Any unusual feature observed during determination : NIL
 End of Test Report

Pritika Bhanu
 Authorised Signatory 5/09/2019
 For Kalyani Laboratories Pvt. Ltd.



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 KLPL-33012A



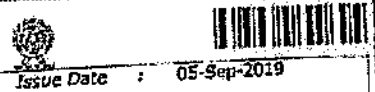
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KALYANI LABORATORIES PVT. LTD.

79/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002292P
Test Report No : 220 | 25588F4 KLPL/S/19/ENVH/016 **Issue Date** : 05-Sep-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 26-Aug-2019 **Commenced On** : 26-Aug-2019 **Completion On** : 31-Aug-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, 20.08.2019				
Sulphur Dioxide	µg/m ³	80	5.13	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	19.33	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	56.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	35.21	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	1.5	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.01	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m ³	400	< 1.0	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
Benzo (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

Recha Nayak
 Authorized Signatory 31/09/2019
 For Kalyani Laboratories Pvt. Ltd.



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 KLPL-33012A





KALYANI LABORATORIES PVT. LTD.

78944, PAILAL, BHUBANESWAR-752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC70431900002292P
Test Report No : 220 | 25588F4 KLPL/8/19/ENVN/017
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 26-Aug-2019 **Commenced On** : 26-Aug-2019 **Completion On** : 31-Aug-2019
Issue Date : 05-Sep-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

Parameter	Unit	Standard Value	Result	Test Method
Location & Date : MID DAY MEAL, 21.08.2019				
Sulphur Dioxide	µg/m ³	80	4.33	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	20.18	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	39.17	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.66	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.1	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	< 18.0	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
Benzo (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	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

Pooja Nayak
 Authorised Signatory 31/09/2019
 For Kalyani Laboratories Pvt. Ltd.



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KLPL-32900A



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KALYANI LABORATORIES PVT. LTD.

78744, PAHAL, BILUBANESWAR-753101, ODISHA

NABL ULR NO : TC704319000002292P

TEST REPORT



Test Report No : 220 | 25588F4 KLPL/9/19/ENVN/018

Issue Date : 05-Sep-2019

Rerference : GG00011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

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

Date of receipt : 26-Aug-2019 Commenced On : 26-Aug-2019

Completion On: 31-Aug-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	Units	Standard Value	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 22.08.2019				
Sulphur Dioxide	µg/m ³	80	5.35	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	19.13	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	40.26	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	6.3	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
Benzo (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

Deba Chaya
Authorized Signatory 5/09/2019
For Kalyani Laboratories Pvt. Ltd.



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KLPL- 32899A
Page 1 of 1

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KALYANI LABORATORIES PVT. LTD.

78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC70431900002292F
Test Report No : 220 | 25588F4 KLPL/8/19/ENVH/019 **Issue Date** : 05-Sep-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 26-Aug-2019 **Commenced On** : 26-Aug-2019 **Completion On** : 31-Aug-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, 23.08.2019				
Sulphur Dioxide	µg/m ³	80	6.11	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	17.31	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	61.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	36.21	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.80	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	5.8	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.62	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
Benzo (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	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

Reena Kalyan
 Authorised Signatory 5/09/2019
 For Kalyani Laboratories Pvt. Ltd.



8F422924364
 KLPL- 32845A





KALYANI LABORATORIES PVT. LTD.

78, 941, PAHAL, BHUBANESWAR-751001, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002292P
Test Report No : 220 | 25588F4 KLPL/S/19/ENVN/D20 **Issue Date** : 05-Sep-2019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 26-Aug-2019 **Commenced On** : 26-Aug-2019 **Completion On** : 31-Aug-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, 24.08.2019				
Sulphur Dioxide	µg/m ³	80	5.18	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	14.21	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	59.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	80	37.17	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.45	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
Benzo (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

Rupa Nayak
 Authorised Signatory 31/09/2019
 For Kalyani Laboratories Pvt. Ltd.



8F422924364
KLPL-32864A





KALYANI LABORATORIES PVT. LTD.

78/941, PATIAL, BHUBANESWAR-752 101, ODISHA

TEST REPORT

NABL ULR NO : TC70431900002292P

Test Report No : 220 | 25588F4 KLPL/8/19/ENVN/021 Issue Date : 05-Sep-2019

Reference : 6500011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

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

Date of receipt : 02-Sep-2019 Commenced On : 02-Sep-2019 Completion On: 05-Sep-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, 26.08.2019				
Sulphur Dioxide	µg/m ³	80	10.41	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	21.32	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	43.26	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.54	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	12.55	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
Benzo (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	5.95	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

Retha Nayak
 Authorised Signatory 5/09/2019
 For Kalyani Laboratories Pvt. Ltd.



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 KLPL-32863A
 Page 1 of 1

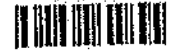




KALYANI LABORATORIES PVT. LTD.

78/9/14, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC70431900002292P
Test Report No : 220 | 25588F4 KLPL/8/19/ENVN/D22
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 02-Sep-2019 **Commenced On** : 02-Sep-2019 **Completion On** : 05-Sep-2019
Issue Date : 05-Sep-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	Units	Standard Value	Results	Test Method
Location & Date : Chhatrapur Village, 27.08.2019				
Sulphur Dioxide	µg/m ³	80	6.32	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	18.35	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	58.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	37.18	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	3.8	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
Benzo (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 *****

Deeba Nayak
 Authorised Signatory 5/09/2019
 For Kalyani Laboratories Pvt. Ltd.



8F422924364
 KLPL-328624





KALYANI LABORATORIES PVT. LTD.

764044, PAIGAL, DHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002292P
Test Report No : 220 | 23588F4 KLPL/B/19/ENVN/023
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO, LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 02-Sep-2019
Commenced On : 02-Sep-2019
Completion On : 05-Sep-2019
Issue Date : 05-Sep-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

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : MID DAY MEAL, 28.08.2019				
Sulphur Dioxide	µg/m ³	80	6.14	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	21.19	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	36.28	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.84	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	2.95	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
Benzo (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

Pooja Nayak
 Authorised Signatory 5/09/2019
 For Kalyani Laboratories Pvt. Ltd.



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 KLPL-33014A
 Page 1 of 1



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KALYANI LABORATORIES PVT. LTD.

TR-019, PAHAL, BIRJANESWAR, 752101, ODISHA

Kalyani Laboratories

TEST REPORT



NABL ULR NO : TC704319000002292P
Test Report No : 220 | 29588P4 KLPL/B/19/ENVN/024
Reference : 8600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 02-Sep-2019 **Commenced On :** 02-Sep-2019 **Completion On :** 03-Sep-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	Observed	Test Method
Location & Date : LANJIGARH VILLAGE, 29.08.2019				
Sulphur Dioxide	µg/m ³	80	6.24	CPCB Guidelines of Ambient Air Pollution Volume I (A1)
Nitrogen Dioxide	µg/m ³	80	18.18	CPCB Guidelines of Ambient Air Pollution Volume I (A1)
Particulate Matter (PM10)	µg/m ³	100	62.0	CPCB Guidelines of Ambient Air Pollution Volume I (A1)
Particulate Matter (PM2.5)	µg/m ³	60	39.13	CPCB Guidelines of Ambient Air Pollution Volume I (A1)
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.49	CPCB Guidelines of Ambient Air Pollution Volume I (A1)
Ozone (O3) (01 Hrs.)	µg/m ³	180	8.2	CPCB Guidelines of Ambient Air Pollution Volume I (A1)
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollution Volume I (A1)
Ammonia (NH3)	µg/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollution Volume I (A1)
Benzene (C6H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollution Volume I (A1)
Benzo (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollution Volume I (A1)
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollution Volume I (A1)
Nickel (Ni)	µg/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollution Volume I (A1)

Remarks : NIL
Any unusual feature observed during determination : NIL
 End of Test Report

Authorised Signatory: *Pooja Chandra*
 5/09/2019
 For Kalyani Laboratories Pvt. Ltd.



SBR



KALYANI LABORATORIES PVT. LTD.

78/94, PAHAL, BICHANESWAR-751011, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002530P
 Test Report No : 246 | 28490900 KLPL/9/19/ENVH/001
 Reference : 6600011158 / 11.12.2018
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-756027.
 Date of receipt : 09-Sep-2019
 Commenced On : 09-Sep-2019
 Completion On : 14-Sep-2019

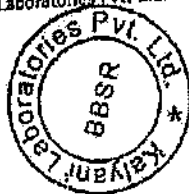
Sample Name : AMBIENT AIR QUALITY MONITORING
 Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
 Quantity : 1 NO.
 Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : PLANT SITE, 02.09.2019				
Sulphur Dioxide	µg/m ³	80	6.85	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	17.55	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	66.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	40.08	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.81	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	12.0	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	480	< 1.0	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
Benzo (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	08	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	20	5.5	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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



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KLPL-33448



KALYANI LABORATORIES PVT. LTD.

8944, PAHAL, BIR BANESWAR-751001, ODISHA

TEST REPORT



NABL DLR NO : TC704319000002530P
 Test Report No : 246 | 28490900 KLPL/9/19/ENVN/002
 Reference : 6600011159 / 11.12.2018
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 09-Sep-2019 Commenced On : 09-Sep-2019
 Issue Date : 05-Oct-2019
 Completion On: 14-Sep-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 : MID DAY MEAL, 04.09.2019				
Sulphur Dioxide	µg/m ³	80	8.85	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	16.38	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	62.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	38.19	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.63	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	2.9	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
Benzo (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

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



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 KLPL-33445A

KALYANI LABORATORIES PVT. LTD.

TKMHI, PARAL, BHUBANESWAR-752001, ODISHA

TEST REPORT



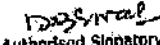
NABL ULR NO : TC704319000002530P
Test Report No : 246 | 28490900 KLPL/9/19/ENVN/003
Reference : 0600011150 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 09-Sep-2019 **Commenced On** : 09-Sep-2019 **Completion On** : 14-Sep-2019
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ADSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO.
Ref. To Sampling Procedure : KLPL/SOP/AIR-06

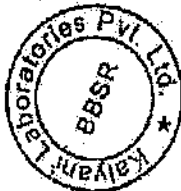
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 05.09.2019				
Sulphur Dioxide	µg/m ³	80	4.95	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	16.05	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	59.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	34.08	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.45	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	5.9	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
Banza (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.



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 KLPL-33444A
 Page 1 of 1



KALYANI LABORATORIES PVT. LTD.

78/44, PAHAL, BHUBANESWAR-752101, ODISHA

NABL ULR NO : TC704319000002530P

TEST REPORT



Issue Date : 05-Oct-2019

Test Report No : 246 | 28490900 KLPL/9/19/ENVN/004

Reference : 6600011150 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

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

Completion On: 14-Sep-2019

Date of receipt : 09-Sep-2019

Commenced On : 09-Sep-2019

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Quantity : 1 NO.

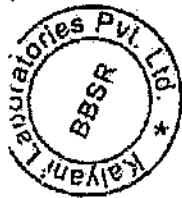
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : REHABILITATION COLONY, 06.09.2019				
Sulphur Dioxide	µg/m ³	80	4.11	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	13.36	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	58.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	35.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.25	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	5.5	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	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m ³	10	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

Authorised Signatory
For Kalyani Laboratories Pvt. Ltd.



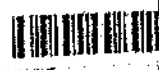
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KLPL-33443A



KALYANI LABORATORIES PVT. LTD.

79/111, PATIALA, BILHASWA, BIRSAPUR, GUJARAT

TEST REPORT



NABL ULR NO : TC704319000002530P
Test Report No : 246 | 26490900 KLPL/9/19/EHVH/005
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 09-Sep-2019 **Commenced On :** 09-Sep-2019 **Completion On :** 14-Sep-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

Parameter	Unit	Standard Value	RESULTS	Test Method
Location & Date : BELAMBA VILLAGE, 07.09.2019				
Sulphur Dioxide	µg/m ³	80	3.25	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	11.92	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	55.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	33.18	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.41	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.1	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
Benzo (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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



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KLPL-33442A
Page 1 of 1



KALYANI LABORATORIES PVT. LTD.

75/114, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC70431900002530P

Test Report No : 246 | 28490900 KLPL/9/19/ENVN/006 **Issue Date** : 05-Oct-2019

Reference : G900011158 / 11.12.2018

Customer Name : VEDANTA LIMITED, LANJIGARH

Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-756027.

Date of receipt : 16-Sep-2019 **Commenced On** : 16-Sep-2019 **Completion On** : 21-Sep-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, 09.09.2019				
Sulphur Dioxide	µg/m ³	80	6.22	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	16.85	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	39.33	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.50	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	11.9	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
Benzo (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	5.4	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.



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KLPL-33441A
Page 1 of 1



KALYANI LABORATORIES PVT. LTD.

70/111, PAHAL, BHUDANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002530P
 Test Report No : 246 | 28490909 KLPL/9/19/ENVN/007
 Rerefrence : 6600011158 / 11.12.2018
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 16-Sep-2019 Commenced On : 16-Sep-2019
 Issue Date : 05-Oct-2019
 Completion On: 21-Sep-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

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : Chhatrapur Village, 10.09.2019				
Sulphur Dioxide	µg/m ³	80	4.86	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	15.23	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	23.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	34.28	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.45	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	03	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



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KLPL-38440A
Page 1 of 1



KALYANI LABORATORIES PVT. LTD.

78944, PAIAL, Bhubaneswar-751011, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002530P
Test Report No : 246 | 28490900 KLPL/9/19/ENVN/008
Reference : 660011159 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 16-Sep-2019
Commenced On : 16-Sep-2019
Issue Date : 05-Oct-2019
Completion On : 21-Sep-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

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : MID DAY MEAL, 11.09.2019				
Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	80	5.35	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	80	15.12	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	100	61.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	60	37.06	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m^3	04	0.61	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	$\mu\text{g}/\text{m}^3$	180	2.7	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	$\mu\text{g}/\text{m}^3$	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	$\mu\text{g}/\text{m}^3$	400	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	$\mu\text{g}/\text{m}^3$	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (a) Pyrene (BaP)	$\mu\text{g}/\text{m}^3$	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	$\mu\text{g}/\text{m}^3$	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (NI)	$\mu\text{g}/\text{m}^3$	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.



9E225304742
 KLPL-33439A



KALYANI LABORATORIES PVT. LTD.

78/44, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002530P
 Test Report No : 246 | 2B490900 KLPL/9/19/ENVN/009
 Reference : 6500011158 / 11.12.2018
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 16-Sep-2019
 Issue Date : 05-Oct-2019
 Commenced On : 16-Sep-2019
 Completion On : 21-Sep-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, 12.09.2019				
Sulphur Dioxide	ug/m ³	80	4.13	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	ug/m ³	80	15.14	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	ug/m ³	100	58.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	ug/m ³	60	28.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.44	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	ug/m ³	180	5.7	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	ug/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	ug/m ³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	ug/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (a) Pyrene (BaP)	ug/m ³	01	< 3.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ug/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	ug/m ³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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



9E225304742
 KLPL-33438A



KALYANI LABORATORIES PVT. LTD.

ANALYTICAL LABORATORIES

TEST REPORT



LAB. ULR NO : TC704319000002530P
Test Report No : 246 | 28490908 KLPL/9/19/ENVH/010
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 16-Sep-2019 **Commenced On** : 16-Sep-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

Issue Date : 05-Oct-2019

Completion On: 21-Sep-2019

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : REHABILITATION COLONY, 13.09.2019				
Sulphur Dioxide	µg/m ³	80	3.62	CPCB Guidelines of Ambient Air Pollution Volume 1 & II
Nitrogen Dioxide	µg/m ³	80	12.09	CPCB Guidelines of Ambient Air Pollution Volume 1 & II
Particulate Matter (PM10)	µg/m ³	100	36.0	CPCB Guidelines of Ambient Air Pollution Volume 1 & II
Particulate Matter (PM2.5)	µg/m ³	60	23.83	CPCB Guidelines of Ambient Air Pollution Volume 1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.73	CPCB Guidelines of Ambient Air Pollution Volume 1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	5.3	CPCB Guidelines of Ambient Air Pollution Volume 1 & II
Lead (Pb)	µg/m ³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollution Volume 1 & II
Ammonia (NH3)	µg/m ³	400	< 1.0	CPCB Guidelines of Ambient Air Pollution Volume 1 & II
Benzene (C6H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollution Volume 1 & II
Benzo (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollution Volume 1 & II
Arsenic (As)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollution Volume 1 & II
Nickel (III)	µg/m ³	10	< 4.0	CPCB Guidelines of Ambient Air Pollution Volume 1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



9E225304742
 KLPL-33437A



KALYANI LABORATORIES PVT. LTD.

78944, PATIAL, BHUBANESWAR-751011, ODISHA

TEST REPORT



NABL ULR NO : TC70431900002530P
Test Report No : 246 | 28490900 KLPL/9/19/ENVN/D11
Reference : 6500011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 16-Sep-2019 **Commenced On** : 16-Sep-2019 **Completion On** : 21-Sep-2019
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ADSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO.
Ref.To Sampling Procedure : KLPL/SOP/AIR-06

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : BELAMBA VILLAGE, 14.09.2019				
Sulphur Dioxide	µg/m ³	80	3.01	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	11.11	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	54.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	32.18	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.40	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.0	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	< 3.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m ³	05	< 3.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (a) Pyrene (BaP)	µg/m ³	01	< 3.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	06	< 3.0	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

Authorized Signatory
For Kalyani Laboratories Pvt. Ltd.



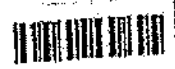
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KLPL-33436A



KALYANI LABORATORIES PVT. LTD.

ISO 9001:2015 CERTIFIED COMPANY

TEST REPORT



NABL ULR NO : TC70431900002530P
 Test Report No : 246 | 20490900 KLPL/9/19/ENVH/012
 Reference : 060011150 / 11.12.2018
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : P.O. LANJIGARH, DIST. KALAHANDI, ODISHA-766027.
 Date of receipt : 23-Sep-2019 Commenced On : 23-Sep-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

Issue Date : 05-Oct-2019

Completion On: 28-Sep-2019

Parameters	Unit	Standard Value	Result	Test Method
Location & Date : PLANT SITE, 16.09.2019				
Sulphur Dioxide	µg/m ³	80	5.89	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nitrogen Dioxide	µg/m ³	80	18.89	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	38.26	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.48	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	11.7	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 (C6H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Benzo (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Arsenic (As)	µg/m ³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II
Nickel (Ni)	µg/m ³	10	3.3	CPCB Guidelines of Ambient Air Pollutants Volume-1 & II

Remarks : NIL

Any unusual feature observed during determination : NIL

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9E22530474Z
KLPL-334588



KALYANI LABORATORIES PVT. LTD.

70/41, PAHAL, BILHARISWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002530P
Test Report No : 246 | 28490900 KLPL/9/19/ENVN/013
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 23-Sep-2019 **Commenced On** : 23-Sep-2019
Issue Date : 05-Oct-2019
Completion On : 28-Sep-2019
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ADSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO.
Ref. To Sampling Procedure : KLPL/SOP/AJR-06

Parameter	Unit	Standard Value	Result	Test Method
Location & Date : Chhatrapur Village, 17.09.2019				
Sulphur Dioxide	µg/m ³	80	4.30	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	14.23	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	92.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	38.05	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.44	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.2	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	< 0.0	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (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.



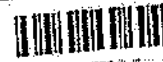
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 KLPL-334926



KALYANI LABORATORIES PVT. LTD.

Plot No. PARAL BIRI BANGSA 19-7520-1, ODISHA

TEST REPORT



KALI UR NO : TC70431900002530P
Test Report No : 246 | 28490900 KLPL/9/19/ERVN/014
Reference : 5500011155 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 23-Sep-2019

Issue Date : 05-Oct-2019

Completion On: 28-Sep-2019

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

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : MID DAY MEAL, 18.09.2019				
Sulphur Dioxide	µg/m ³	80	4.81	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	14.13	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	59.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	16.68	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.60	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	2.5	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 (C6H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (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

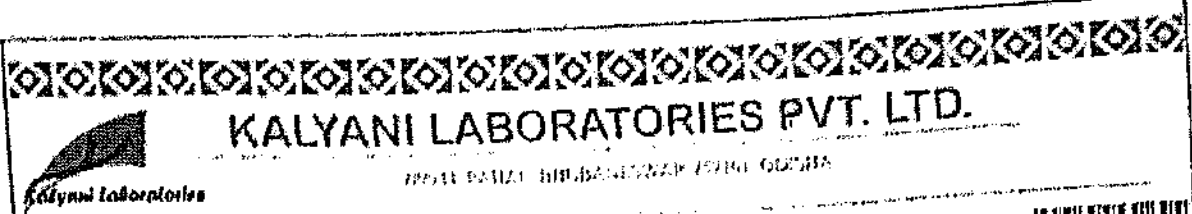
Remarks : NIL

Any unusual feature observed during determination : NIL

Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



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 KLPL-334324



KALYANI LABORATORIES PVT. LTD.

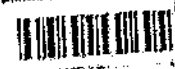
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Kalyani Laboratories

TEST REPORT



Issue Date : 05-Oct-2019



NABL UR NO : TC704319000002530P
Test Report No : 246 | 28490000 KLPL/9/19/ENVN/015
Reference : 6660011158 / 11.12.2019
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 23-Sep-2019 Commenced On : 23-Sep-2019
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO.
Ref. To Sampling Procedure : KLPL/501/AIR-06

Completion On: 28-Sep-2019

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : LANJIGARH VILLAGE, 19.09.2019				
Sulphur Dioxide	µg/m ³	80	3.62	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	14.03	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	57.8	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	50	37.09	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 hrs.)	mg/m ³	04	0.43	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	5.0	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
Ammoinia (NH3)	µg/m ³	400	< 1.0	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
Benzo (a) Pyrene (BaP)	µg/m ³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m ³	00	< 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

Authorised Signatory
 For Kalyani Laboratories Pvt. Ltd.



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 KLPL-334300



KALYANI LABORATORIES PVT. LTD.

78944, PATIALA, DIST. BANASWAR-752101, ODISHA

TEST REPORT

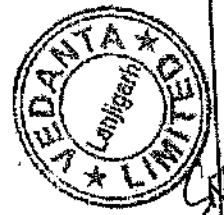


NABL ULR NO : TC70431900002530P
Test Report No : 246 | 28498900 KLPL/9/19/ENVN/016
Reference : G800011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 23-Sep-2019 **Commenced On :** 23-Sep-2019 **Completion On :** 28-Sep-2019
Issue Date : 05-Oct-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

Parameter	Unit	Standard Value	Results	Test Method
Location & Date : REHABILITATION COLONY, 20.09.2019				
Sulphur Dioxide	µg/m ³	80	3.04	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	11.95	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	55.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	32.17	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	5.1	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
Amonia (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	< 1.0	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.



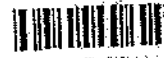
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 KLPL-33428A



KALYANI LABORATORIES PVT. LTD.

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TEST REPORT



NABL ULR NO : TC704319000002530P
Test Report No : 246 | 28490508 KLPL/9/19/ENVN/017
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO - LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 23-Sep-2019 **Commenced On** : 23-Sep-2019
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ADSORBING SOLUTIONS REFRIGERATED
Quantity : 1 NO.
Ref.To Sampling Procedure: KLPL/SOP/AIR-06

Issue Date : 05-Oct-2019

Completion On: 28-Sep-2019

Parameter	Unit	Standard Value	Result	Test Method
Location & Date : BILAMBA VILLAGE, 21.09.2019				
Sulphur Dioxide	µg/m ³	80	3.55	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	11.35	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	83.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	31.29	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.41	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.1	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m ³	1.0	< 0.03	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Amonia (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
Benz(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	30	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

..... End of Test Report

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For Kalyani Laboratories Pvt. Ltd.



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KLPL- 33428A
Page 1 of 1

KALYANI LABORATORIES PVT. LTD.

B-11, PALLI BHADRA WAZIRPURA

Kalyani Laboratories

TEST REPORT



Issue Date : 05-Oct-2019

NABL ULR NO : YC704319000002530P
 Test Report No : 240 | 20400900 KLPL/0/19/RNH/010
 Reference : 660011155 / 11.12.2018
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027
 Date of receipt : 30-Sep-2019 Commenced On : 30-Sep-2019

Completion On: 05-Oct-2019

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

Parameter	Unit	Standard Value	Result	Test Method
Location & Date : PLANT SITE, 23.09.2019				

Sulphur Dioxide	µg/m ³	80	5.13	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	14.36	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	37.18	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	1.47	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	11.5	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 (C6H6)	µg/m ³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (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	5.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

Authorized Signatory
 For Kalyani Laboratories Pvt. Ltd.



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KALYANI LABORATORIES PVT. LTD.

78-044, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC70431900002530P
Test Report No : 246 | 28490980 KLPL/9/19/ENVN/019
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 30-Sep-2019
Commenced On : 30-Sep-2019
Completion On : 05-Oct-2019
Issue Date : 05-Oct-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, 24.09.2019				
Sulphur Dioxide	µg/m ³	80	3.82	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	13.82	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	51.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	37.12	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.43	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.1	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
Benzo (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]
Authorized Signatory
 For Kalyani Laboratories Pvt. Ltd.



9E225304742
 KLPL-33428A
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TEST REPORT



NABL ULR NO : TC70431900002530P
Test Report No : 246 | 28490900 KLPL/9/19/ENVN/020
Reference : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 30-Sep-2019 **Commenced On :** 30-Sep-2019 **Issue Date :** 05-Oct-2019
Completion On: 05-Oct-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, 25.09.2019				
Sulphur Dioxide	µg/m³	80	4.16	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m³	80	13.38	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m³	100	59.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m³	60	35.08	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m³	04	0.59	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m³	180	2.6	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m³	400	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (a) Pyrene (BaP)	µg/m³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m³	08	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m³	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.



9E225304742
 KLPL-334258



KALYANI LABORATORIES PVT. LTD.

78944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC70431900002530P
Test Report No : 246 | 28490900 KLPL/9/19/ENVN/021
Rerefrance : 6600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 30-Sep-2019 **Commenced On** : 30-Sep-2019 **Completion On** : 05-Oct-2019
Issue Date : 05-Oct-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, 26.09.2019				
Sulphur Dioxide	µg/m ³	80	3.09	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	13.62	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	55.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	38.18	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.44	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	5.7	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
Benzo (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	< 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.



9E225304742
KLPL-334246



KALYANI LABORATORIES PVT. LTD.

78244, PAHALI, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002530P
 Test Report No : 246 | 28490900 KLPL/9/19/ENVH/022
 Reference : 6600011153 / 11.12.2018
 Customer Name : VEDANTA LIMITED, LANJIGARH
 Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
 Date of receipt : 30-Sep-2019
 Issued Date : 05-Oct-2019
 Commenced On : 30-Sep-2019
 Completion On : 05-Oct-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, 27.09.2019				
Sulphur Dioxide	µg/m³	80	3.88	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m³	80	12.05	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m³	100	56.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m³	60	31.28	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m³	04	0.70	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m³	180	5.2	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (a) Pyrene (BaP)	µg/m³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m³	20	< 4.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II

Remarks : NIL

Any unusual feature observed during determination : NIL

[Signature]
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 For Kalyani Laboratories Pvt. Ltd.



9E225304742
 KLPL-33422A



KALYANI LABORATORIES PVT. LTD.

78994, PALLAL, BHUBANESWAR-752101, ODISHA

TEST REPORT



NABL ULR NO : TC704319000002530P
Test Report No : 246 | 28490900 KLPL/9/19/ENVN/023
Reference : 6500011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 30-Sep-2019 **Commenced On** : 30-Sep-2019 **Completion On** : 05-Oct-2019
Issue Date : 05-Oct-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, 28.09.2019				
Sulphur Dioxide	µg/m³	80	3.98	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m³	80	12.36	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m³	100	55.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m³	60	32.66	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m³	04	0.42	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m³	180	3.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Lead (Pb)	µg/m³	1.0	< 0.02	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ammonia (NH3)	µg/m³	400	< 10.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzene (C6 H6)	µg/m³	05	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Benzo (a) Pyrene (BaP)	µg/m³	01	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	µg/m³	06	< 1.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nickel (Ni)	µg/m³	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.



9E225304742
 KLPL-3342101



KALYANI LABORATORIES PVT. LTD.

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

TEST REPORT



NABL ULR NO : TC704319000002530P
Test Report No : 146 | 28490900 KLPL/9/19/ENVN/024 **Issue Date :** 05-Oct-2019
Reference : 8600011158 / 11.12.2018
Customer Name : VEDANTA LIMITED, LANJIGARH
Address : PO.- LANJIGARH, DIST.- KALAHANDI, ODISHA-766027.
Date of receipt : 03-Oct-2019 **Commenced On :** 03-Oct-2019 **Completion On :** 05-Oct-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, 30.09.2019				
Sulphur Dioxide	µg/m ³	80	4.25	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Nitrogen Dioxide	µg/m ³	80	14.36	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM10)	µg/m ³	100	50.0	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Particulate Matter (PM2.5)	µg/m ³	60	38.21	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.44	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Ozone (O3) (01 Hrs.)	µg/m ³	180	3.2	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
Benzo (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

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For Kalyani Laboratories Pvt. Ltd.



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