



SV ENVIRO LABS & CONSULTANTS

(Environmental Engineers & Consultants in Pollution Control)

Corporate Office : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012
& Laboratory : www.svenviolabs.com, Ph:0891-2755528, Cell: +91 9440338628
info@svenviolabs.com, svenviro_labs@yahoo.co.in

Branch Office : 2-53, Mahipala Street, Yanam - 533464.

Recognized by Govt.of India-MoEF & CC, New Delhi, Accredited by : NABL & NABET



Certificate

This is to certify that SV ENVIRO LABS & CONSULTANTS (Recognized by Govt. of India MoEF & CC, NABL & NABET) carried out **Environmental Monitoring** in the campus of **Andhra Loyola Institute of Engineering and Technology**, Vijayawada, Andhra Pradesh on 19th December 2020. This is evident in the report.

For SV ENVIRO LABS & CONSULTANTS

Authorized Signatory



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Ref: SVELC/ALIET/20-12/01

Date: 24-12-2020

NAME AND ADDRESS : M/s. Andhra Loyola Institute of Engineering & Technology,
Polytechnic Post Office,
Vijayawada – 520008, AP.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR PARKING AREA (South)

DATE & TIME OF START : 19-12-2020@ 10.00 hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	NAAQ STANDARDS	METHOD
1.	Particulate Matter(Size<10 μ) or PM ₁₀	$\mu\text{g}/\text{m}^3$	63.5	100	IS:5182 (P-23)
2.	Particulate Matter(Size<2.5 μ) or PM _{2.5}	$\mu\text{g}/\text{m}^3$	28.4	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	$\mu\text{g}/\text{m}^3$	9.6	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	$\mu\text{g}/\text{m}^3$	15.8	80	IS:5182(P-6)

Remarks: As per the above report, all the parameters are within the NAAQ Standards.

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Ref: SVELC/ALIET/20-12/02

Date: 24-12-2020

NAME AND ADDRESS : M/s. Andhra Loyola Institute of Engineering & Technology,
Polytechnic Post Office,
Vijayawada – 520008, AP

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR CIVIL LAB BACK (North)

DATE & TIME OF START : 19-12-2020@ 10.15 hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	NAAQ STANDARDS	METHOD
1.	Particulate Matter(Size<10 μ) or PM ₁₀	$\mu\text{g}/\text{m}^3$	52.6	100	IS:5182 (P-23)
2.	Particulate Matter(Size<2.5 μ) or PM _{2.5}	$\mu\text{g}/\text{m}^3$	20.3	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	$\mu\text{g}/\text{m}^3$	8.5	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	$\mu\text{g}/\text{m}^3$	12.5	80	IS:5182(P-6)

Remarks: As per the above report, all the parameters are within the NAAQ Standards.

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Ref: SVELC/ALIET/20-12/03

Date: 24-12-2020

NAME AND ADDRESS : M/s. Andhra Loyola Institute of Engineering & Technology,
Polytechnic Post Office,
Vijayawada – 520008, AP

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR MAIN ENTRANCE GATE (East)

DATE & TIME OF START : 19-12-2020@ 10:30 hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	NAAQ STANDARDS	METHOD
1.	Particulate Matter(Size<10 μ) or PM ₁₀	$\mu\text{g}/\text{m}^3$	65.2	100	IS:5182 (P-23)
2.	Particulate Matter(Size<2.5 μ) or PM _{2.5}	$\mu\text{g}/\text{m}^3$	27.1	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	$\mu\text{g}/\text{m}^3$	9.2	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	$\mu\text{g}/\text{m}^3$	14.5	80	IS:5182(P-6)

Remarks: As per the above report, all the parameters are within the NAAQ Standards.

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Ref: SVELC/ALIET/20-12/04

Date: 24-12-2020

NAME AND ADDRESS : M/s. Andhra Loyola Institute of Engineering & Technology,
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Vijayawada – 520008, AP

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR MECHANICAL LAB (West)

DATE & TIME OF START : 19-12-2020@ 10.45hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	NAAQ STANDARDS	METHOD
1.	Particulate Matter(Size<10 μ) or PM ₁₀	$\mu\text{g}/\text{m}^3$	50.8	100	IS:5182 (P-23)
2.	Particulate Matter(Size<2.5 μ) or PM _{2.5}	$\mu\text{g}/\text{m}^3$	18.4	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	$\mu\text{g}/\text{m}^3$	7.8	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	$\mu\text{g}/\text{m}^3$	11.2	80	IS:5182(P-6)

Remarks: As per the above report, all the parameters are within the NAAQ Standards.

Y. J. K.

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Ref: SVELC/ALIET/20-12/05

Date: 24-12-2020

NAME AND ADDRESS : M/s. Andhra Loyola Institute of Engineering & Technology,
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Vijayawada – 520008, AP

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : D.G Set 100 KVA

DATE & TIME OF START : 19-12-2020@ 11:45 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	30
4.	Stack temperature	°C	124
5.	Diameter of Stack	mt	0.2
6.	Cross sectional area of Stack	mt ²	0.0314
7.	Flue Gas Velocity	m/sec	11.4
8.	Flow rate	m ³ /hr	1288
9.	Duration of Sampling	minutes	30
10.	Fuel	-	HSD

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	PCB STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	58.4	115	IS:11255-P-1
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	24.6	-	IS:11255-P-2
3.	Oxides of Nitrogen – NO _x	mg/Nm ³	28.2	-	IS:11255-P-7

Remarks: As per the above report, all the parameters are within the PCB Standard.

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Ref: SVELC/ALIET/20-12/06

Date: 24-12-2020

NAME AND ADDRESS : M/s. Andhra Loyola Institute of Engineering & Technology
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Vijayawada – 520008, AP

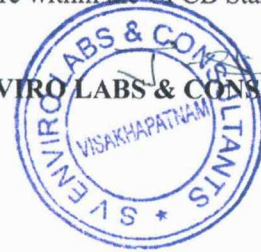
SAMPLE PARTICULARS : NOISE LEVELS

DATE OF COLLECTION : 19-12-2020

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Parking Area	64.8	50.6	IS:4954 – 1968 Noise Level Meter
2.	Civil Lab	51.2	40.8	
3.	Main Entrance	60.6	48.5	
4.	Mechanical Lab	50.8	39.6	
CPCB STANDARDS		75.0	70.0	

Remarks: As per the above report, all the noise level are within the CPCB Standards.

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Ref: SVELC/ALIET/20-12/07

Date: 24-12-2020

NAME AND ADDRESS : M/s. Andhra Loyola Institute of Engineering & Technology,
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SAMPLE PARTICULARS : RAW WATER

SOURCE OF COLLECTION : BOREWELL

DATE OF COLLECTION : 19-12-2020

TEST REPORT

S. No.	Parameter	Unit	Result	IS: 10500-2012 Specification
1.	Colour	Hazen	<1.0	5.0
2.	Odour	-	Agreeable	Agreeable
3.	Turbidity	NTU	<0.01	1.0
4.	pH	-	7.77	6.5 – 8.5
5.	Total Dissolved Solids	mg/l	742	500
6.	Total Alkalinity as CaCO ₃	mg/l	424	200
7.	Total Hardness as CaCO ₃	mg/l	556	200
8.	Calcium as Ca	mg/l	60.9	75
9.	Magnesium as Mg	mg/l	96.7	30
10.	Chlorides as Cl ⁻	mg/l	161	250
11.	Fluorides as F ⁻	mg/l	0.58	1.0
12.	Nitrates as NO ₃ ⁻	mg/l	20.6	45
13.	Sulphates as SO ₄ ²⁻	mg/l	18.4	200
14.	Iron as Fe	mg/l	0.03	0.3
Microbial Parameters				
15.	<i>E.coli</i>	CFU/100mL	Not Detected	Shall not be detected in 100ml sample
16.	<i>Total coliform</i>	CFU/100mL	Not Detected	Shall not be detected in 100ml sample

Note: All the above parameters as tested as per APHA methods, 23rd Edition, 2017.

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Ref: SVELC/ALIET/21-01/01

Date: 27-01-2021

NAME AND ADDRESS : M/s. Andhra Loyola Institute of Engineering & Technology,
Polytechnic Post Office,
Vijayawada – 520008, AP

SAMPLE PARTICULARS : DRINKING WATER

SOURCE OF COLLECTION : SIDE BORE TREATED WATER

DATE OF COLLECTION : 11-01-2021

TEST REPORT

S. No.	Parameter	Unit	Result	IS: 10500-2012 Specification
1.	Colour	Hazen	<1.0	5.0
2.	Odour	-	Agreeable	Agreeable
3.	Turbidity	NTU	<0.01	1.0
4.	pH	-	7.06	6.5 – 8.5
5.	Total Dissolved Solids	mg/l	51	500
6.	Total Alkalinity as CaCO ₃	mg/l	26	200
7.	Total Hardness as CaCO ₃	mg/l	20	200
8.	Calcium as Ca	mg/l	4.0	75
9.	Magnesium as Mg	mg/l	2.43	30
10.	Chlorides as Cl ⁻	mg/l	13.1	250
11.	Fluorides as F ⁻	mg/l	0.22	1.0
12.	Nitrates as NO ₃ ⁻	mg/l	2.55	45
13.	Sulphates as SO ₄ ²⁻	mg/l	<1.0	200
14.	Iron as Fe	mg/l	<0.01	0.3
Microbial Parameters				
15.	<i>E.coli</i>	CFU/100mL	Not Detected	Shall not be detected in 100ml sample
16.	<i>Total coliform</i>	CFU/100mL	Not Detected	Shall not be detected in 100ml sample

Note: All the above parameters as tested as per APHA methods, 23rd Edition, 2017.

Remarks: As per the above report, all the parameters are within the IS 10500:2012 Drinking water Specifications.

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Ref: SVELC/ALIET/21-01/02

Date: 27-01-2021

NAME AND ADDRESS : M/s. Andhra Loyola Institute of Engineering & Technology,
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Vijayawada – 520008, AP

SAMPLE PARTICULARS : DRINKING WATER

SOURCE OF COLLECTION : BOREWELL TREATED WATER

DATE OF COLLECTION : 11-01-2021

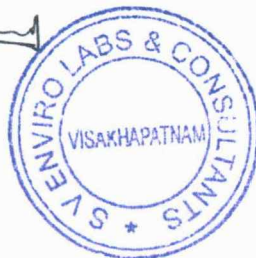
TEST REPORT

S. No.	Parameter	Unit	Result	IS: 10500-2012 Specification
1.	Colour	Hazen	<1.0	5.0
2.	Odour	-	Agreeable	Agreeable
3.	Turbidity	NTU	<0.01	1.0
4.	pH	-	6.94	6.5 – 8.5
5.	Total Dissolved Solids	mg/l	31	500
6.	Total Alkalinity as CaCO ₃	mg/l	18	200
7.	Total Hardness as CaCO ₃	mg/l	17	200
8.	Calcium as Ca	mg/l	2.40	75
9.	Magnesium as Mg	mg/l	2.67	30
10.	Chlorides as Cl ⁻	mg/l	8.25	250
11.	Fluorides as F ⁻	mg/l	0.21	1.0
12.	Nitrates as NO ₃ ⁻	mg/l	<1.0	45
13.	Sulphates as SO ₄ ²⁻	mg/l	1.30	200
14.	Iron as Fe	mg/l	<0.01	0.3
Microbial Parameters				
15.	<i>E.coli</i>	CFU/100mL	Not Detected	Shall not be detected in 100ml sample
16.	<i>Total coliform</i>	CFU/100mL	Not Detected	Shall not be detected in 100ml sample

Note: All the above parameters as tested as per APHA methods, 23rd Edition, 2017.

Remarks: As per the above report, all the parameters are within the IS 10500:2012 Drinking water specifications.

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