



**IGNITE**  
Engineering  
THE SPIRIT OF SOLUTIONS

# IGNITE ENVIRONMENTAL SERVICES

An ISO 9001:2015 Certified Organization  
Environmental Testing & Analysis, Calibration of Instruments



9001:2015

No.38/2, F1 Ranga Flats, Bharathiyar Street, Near Indian Bank,  
Hashtinapuram Road, Chrompet, Chennai - 44.

Regional Office : Pondicherry, Coimbatore & Andra Pradesh

Contact : 8778740104, 9384381615 | Email : igniteengg@gmail.com



## TEST REPORT

Sample Ref No: EES/AS/270/12 to 271/14	Date of Sampling: 07.05.2023
Issued To:	Report Date/Report No: 10.05.2023
<b>M/s. T.J.S Engineering College</b> <b>Peruvoyal, GummidipoondiTk</b>	
Page 1 of 1	
Group : Atmospheric Pollution	Sample Drawn By/Date : EES/07.05.2023
Discipline : Chemical Testing	Received On : 08.05.2023
Sample Description : Indoor Air Quality	Analysis Commenced On : 08.05.2023
Sampling Method : IS 5182, NIOSH & SOP	Analysis Completed On : 10.05.2023

Sl. No	Sampling Location	UNIT	RESULT Carbon-di-oxide (CO <sub>2</sub> )	ASHRAE LIMITS
1	Central Library	ppm	451	1000
2	Office	ppm	419	
3	Principal Room	ppm	486	
4	Canteen	ppm	421	
5	Computer Lab	ppm	354	
6	Class Room-I	ppm	472	
7	Class Room-II	ppm	341	

ASHRAE- American Society of Heating Refrigerating and Air-Conditioning Engineers,

-----End of Report-----



Authorized Signatory

- Note
1. Test result shown in this test report relate only to the items tested
  2. This test Report shall not be reproduce anywhere except in full and in same format without the approval of the Laboratory



  
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Peruvoyal, Kavaraipeetai,  
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## AMBIENT AIR MONITORING

Report No	IES-NO-AR-72-202-2023	Report Date	10.05.2023		
Customer Name & Address  M/s T.J.S Engineering College Peruvoyal, GummudiPoondi Taluk Chennai	Sample Reference No:	IES-NO-AR-72-179-2023			
	Sample Description:	Ambient Air			
	Sample Drawn by:	Laboratory			
	Sample Collected Date:	07.05.2023			
	Qty of sample Received:	Filter Paper (2nos) & Approx 25ml Solution (4nos)			
	Sample Received On:	07.05.2023			
	Test Commenced On:	07.05.2023			
	Test Completed On:	10.05.2023			
	Sampling Method:	IES-SOP-ARS-01 to 11			
	Sample Mark:	Near to Canteen			
S.No	Name of the Test	Test Method	Units	Results	Max. Annual Average Limits Of NAAQs
1.	Ammonia (as NH <sub>3</sub> )	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	6.3	100
2.	Arsenic (as As)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	<0.1	6.0
3.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS 5182 (Part 11): 2006 (Reaffirmed 2017)	µg/m <sup>3</sup>	<0.5	5.0
4.	Benza (α) Pyrene (as C <sub>20</sub> H <sub>12</sub> )	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	<0.5	1.0
5.	Carbon Monoxide (as CO)	Instruments Manual Based SOP No.EL-SOP-ARS-17	µg/m <sup>3</sup>	<1.1	2.0
6.	Lead (as Pb)	IS 5182 (Part 22): 2004 (Reaffirmed 2014) Clause No.5	µg/m <sup>3</sup>	<0.5	0.5
7.	Nickel (as Nil)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	<1.0	20
8.	Oxidants (as Ozone O <sub>3</sub> )	IS 5182 (Part IX)- 19747 (Reaffirmed 2014)	µg/m <sup>3</sup>	<10.0	100
9.	Oxidants of Nitrogen (as Ozone NO <sub>2</sub> )	IS 5182 (Part 6): 2006 (Reaffirmed 2017)	µg/m <sup>3</sup>	20.3	40
10.	Particulate Matter (as PM <sub>10</sub> )	IS 5182 (Part 23): 2006 (Reaffirmed 2017)	µg/m <sup>3</sup>	36.2	60
11.	Particulate Matter (as PM <sub>2.5</sub> )	EPA 40 CFR Part 50- Appendix L	µg/m <sup>3</sup>	17.2	40
12.	Sulphur Dioxide (as SO <sub>2</sub> )	IS 5182 (Part 2): 2001 (Reaffirmed 2017)	µg/m <sup>3</sup>	10.6	50
<-----END OF REPORT----->					
<b>NOTES:</b>					
The Concentrations of the parameters tested in the above Location are within the prescribed annual average limits of NAAQs tolerance limits.					
Report Confirmed by			FOR IGNITE ENVIRONMENTAL SERVICES		
			Authorized Signatory		

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## ILLUMINATION MONITORING

Report No	IES-NO-IN-23-601-2023	Report Date:	10.05.2023		
Customer Name & Address M/s. T.J.S Engineering College Peruvoyal, Gummudi Poondi Taluk Chennai	Sample of Reference No:	IES-NO-IN-23-554-2023			
	Sample Description:	Light			
	Monitoring By:	Laboratory			
	Monitoring Date:	07.05.2023			
	Data Received On:	07.05.2023			
	Sampling Method:	IS 3646 (part1):1992 (Reaffirmed 2003)			
	Monitoring unit:	Lux			

S.no	Name of the Location	Monitoring Distance in m	Monitoring Time	Day Time (6.00 a.m - 10.00 p.m)		
				Minimum	Maximum	L Equivalent
1.	Admin Block	0.9	11 AM - 12 PM	355	432	409
2.	Civil Dept	0.9	11 AM - 12 PM	226	238	236
3.	Canteen	0.9	11 AM - 12 PM	304	362	319
4.	Class Room-1	0.9	11 AM - 12 PM	533	612	212
5.	Class Room-11	0.9	11 AM - 12 PM	420	448	431
Permissible Limit For Light as Per The Factories Rules, 1950				Maximum 65		

←-----End of Report----->

**NOTES:**  
The above Location Light levels are fulfill the necessities of Factories Rules 1950 standard.

Report Confirmed by 	FOR IGNITE ENVIRONMENTAL SERVICES  Authorized Signatory
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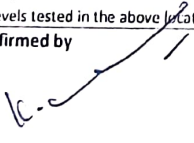

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## NOISE MONITORING

Report No	EL-NO-NE-23-602-2023	Report Date:	10.05.2023			
Customer Name & Address M/s. T.J.S Engineering College Peruvoyal, GummundiPoondi Taluk Chennai		Sample of Reference No:	IES-NO-IN-23-555-2023			
		Sample Description:	Light			
		Monitoring By:	Laboratory			
		Monitoring Date:	07.05.2023			
		Data received On:	07.05.2023			
		Sampling Method:	IS:9989- 1981 (Reaffirmed 2001)			
		Monitoring unit:	Db (A)			
S.no	Name of the Location	Monitoring Distance in m	Monitoring Time	Day Time (6.00 a.m -10.00 p.m)		
				Minimum	Maximum	L Equivalent
1.	Admin Block	Site	11 AM -12PM	58.9	59.3	57.3
2.	Civil Dept	Site	11 AM -12PM	60.9	65.3	62.1
3.	Canteen	Site	11 AM -12PM	57.0	59.0	55.6
4.	Class Room-1	Site	11 AM -12PM	59.2	61.5	60.0
5.	Class Room-11	Site	11 AM -12PM	55.1	62.1	57.3
Permissible Limit For Noise as Per The Factories Rules 1950				Maximum 90.0		
<-----End of Report----->						
<b>NOTES:</b>						
The sound levels tested in the above locations are within the prescribed limits of Factories rules 1950 Standard Limits						
Report Confirmed by				FOR: IGNITE ENVIRONMENTAL SERVICES		
						
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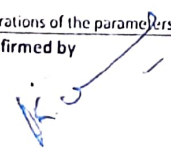
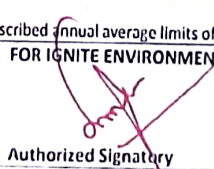
## AMBIENT AIR MONITORING

Report No	IES-NO-AR-72-201-2023	Report Date:	10.05.2023		
Customer Name & Address  M/s. T.J.S Engineering College Peruvoyal, Gummundi Poondi Taluk Chennai	Sample Reference No:	IES-NO-AR-72-178-2023			
	Sample Description:	Ambient Air			
	Sample Drawn by:	Laboratory			
	Sample Collected Date:	07.05.2023			
	Qty of sample Received:	Filter Paper(2nos) & Approx 25ml Solution(4nos)			
	Sample Received On:	07.05.2023			
	Test Commenced On:	07.05.2023			
	Test Completed On:	10.05.2023			
	Sampling Method:	IES-SOP-ARS-01 to 11			
	Sample Mark:	Near to Admin Block			

S.No	Name of the Test	Test Method	Units	Results	Max. Annual Average Limits Of NAAQs
1.	Ammonia (as NH <sub>3</sub> )	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	<5.0	100
2.	Arsenic (as As)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	<0.1	6.0
3.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS 5182 (Part 11): 2006 (Reaffirmed 2017)	µg/m <sup>3</sup>	<0.5	5.0
4.	Benza (α) Pyrene(as C <sub>20</sub> H <sub>12</sub> )	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	<0.5	1.0
5.	Carbon Monoxide (as CO)	Instruments Manual Based SOP No.EL-SOP-ARS-17	µg/m <sup>3</sup>	<1.2	2.0
6.	Lead (as Pb)	IS 5182 (Part 22): 2004 (Reaffirmed 2014) Clause No.5	µg/m <sup>3</sup>	<0.5	0.5
7.	Nickel (as Nil)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	<1.0	20
8.	Oxidants (as Ozone O <sub>3</sub> )	IS 5182 (Part IX)- 19747 (Reaffirmed 2014)	µg/m <sup>3</sup>	<10.0	100
9.	Oxidants of Nitrogen (as Ozone NO <sub>2</sub> )	IS 5182 (Part 6): 2006 (Reaffirmed 2017)	µg/m <sup>3</sup>	16.1	40
10.	Particulate Matter (as PM <sub>10</sub> )	IS 5182 (Part 23): 2006 (Reaffirmed 2017)	µg/m <sup>3</sup>	27.4	60
11.	Particulate Matter (as PM <sub>2.5</sub> )	EPA 40 CFR Part 50- Appendix L	µg/m <sup>3</sup>	23.5	40
12.	Sulphur Dioxide (as SO <sub>2</sub> )	IS 5182 (Part 2): 2001 (Reaffirmed 2017)	µg/m <sup>3</sup>	8.7	50

<-----END OF REPORT----->

**NOTES:**  
The Concentrations of the parameters tested in the above Location are within the prescribed annual average limits of NAAQs tolerance limits.

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