

Ambient Air and Noise monitoring during
Deepavali- 2024

AAQ/ANL Monitoring

From 24.10.2024 to 07.11.2024



Tamil Nadu Pollution Control Board
Chennai – 600 032



TAMIL NADU POLLUTION CONTROL BOARD
CHENNAI – 600 032

REPORT ON AAQS ANLS CONDUCTED ON THE EVE OF
DEEPAVALI FESTIVAL 2024

AAQ/ANL Monitoring from 24.10.2024 to 07.11.2024
DEEPAVALI DAY : 31.10.2024

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Thiru.Shankara Subramanian,

Deputy Director (Labs),

Tamil Nadu Pollution Control Board,

Guindy, Chennai – 600 032.



Deepavali Monitoring 2024

Chennai

City:

- Latitude & Longitude : 13.08° N, 80.27° E
- Climate / Meteorology
Pre-Deepavali day : Clear weather
Deepavali Day : Drizzling with partially cloudy weather
- Population : 46,46,732 (2011 Census)
- Major Land use : Mixed use

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : Noise level survey
Besant Nagar (R)
T. Nagar (C)
Nungambakkam (R)
Triplicane (R)
Sowcarpet (C)
Valasaravakkam (R)
Tiruvottiyur (C)
Ambient Air quality Survey
Besant Nagar (R)
T. Nagar (C)
Nungambakkam (R)
Triplicane (R)
Sowcarpet (C)
Valasaravakkam (R)
Tiruvottiyur (C)
- Activities around the monitoring location /
Sources of Noise Pollution : Crackers were burnt near
the monitoring stations during
Deepavali festival.



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

CHENNAI

Location: Besant Nagar (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	44.7	72.5	50.5	44.0	121.0	66.1
19:00 to 20:00 Hr	44.5	88.7	62.2	49.3	118.1	63.9
20:00 to 21:00 Hr	43.3	77.1	49.0	45.9	123.5	65.6
21:00 to 22:00 Hr	41.0	81.1	50.4	43.0	119.0	56.1
22:00 to 23:00 Hr	41.0	82.1	50.2	40.9	98.4	55.5
23:00 to 24:00 Hr	40.2	79.1	47.8	39.6	99.5	53.1

Location: T. Nagar (C)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	55.4	77.6	62.0	54.0	104.9	68.9
19:00 to 20:00 Hr	53.0	84.8	60.3	60.4	109.1	72.7
20:00 to 21:00 Hr	53.4	87.4	59.1	58.8	101.6	68.5
21:00 to 22:00 Hr	49.8	82.8	54.7	54.9	97.6	67.6
22:00 to 23:00 Hr	47.6	88.4	54.2	52.4	99.7	69.7
23:00 to 24:00 Hr	47.6	93.6	53.0	51.5	83.8	53.9

Location: Nungambakkam (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	49.4	96.8	68.6	59.6	96.1	81.8
19:00 to 20:00 Hr	47.5	86.2	62.1	56.9	108.6	83.1
20:00 to 21:00 Hr	49.1	89.2	65.1	54.2	109.0	81.6
21:00 to 22:00 Hr	49.1	86.9	63.6	45.5	110.2	80.0
22:00 to 23:00 Hr	50.1	103.0	68.1	43.6	109.9	75.7
23:00 to 24:00 Hr	48.0	87.0	61.5	41.6	98.7	70.7



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

CHENNAI

Location: Triplicane (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	54.1	88.3	64.3	55.3	109.7	81.9
19:00 to 20:00 Hr	55.3	88.7	65.4	59.7	107.0	70.6
20:00 to 21:00 Hr	54.7	91.0	74.5	56.3	109.7	91.4
21:00 to 22:00 Hr	51.7	97.4	63.5	53.8	109.1	65.4
22:00 to 23:00 Hr	50.6	86.6	55.9	52.2	104.7	76.5
23:00 to 24:00 Hr	46.6	75.8	48.4	49.3	101.3	64.7

Location: Sowcarpet (C)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	50.2	91.5	58.9	52.5	104.4	75.9
19:00 to 20:00 Hr	49.2	77.7	58.0	57.6	105.3	79.8
20:00 to 21:00 Hr	49.1	87.5	60.2	53.4	108.2	78.2
21:00 to 22:00 Hr	45.4	78.3	56.5	52.2	102.0	73.7
22:00 to 23:00 Hr	46.8	80.8	54.6	47.6	102.2	71.9
23:00 to 24:00 Hr	41.7	85.9	58.5	44.2	92.9	64.8

Location: Valasaravakkam (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	63.4	93.9	68.7	61.0	108.9	68.8
19:00 to 20:00 Hr	61.8	89.2	66.3	62.5	109.4	68.6
20:00 to 21:00 Hr	60.4	95.9	65.8	59.9	113.9	82.1
21:00 to 22:00 Hr	58.7	87.7	62.4	57.2	111.4	76.6
22:00 to 23:00 Hr	55.9	91.9	61.8	55.2	112.8	61.3
23:00 to 24:00 Hr	53.4	87.7	58.3	54.1	97.5	64.8



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

CHENNAI

Location: Tiruvottiyur (C)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	50.7	92.7	54.1	52.6	105.5	85.2
19:00 to 20:00 Hr	46.8	72.3	52.5	55.7	119.6	70.3
20:00 to 21:00 Hr	48.8	71.9	51.4	54.2	107.3	72.5
21:00 to 22:00 Hr	49.0	68.1	51.3	51.3	110.3	70.2
22:00 to 23:00 Hr	47.6	88.3	49.3	50.7	96.4	67.3
23:00 to 24:00 Hr	39.3	69.9	39.9	49.7	97.7	62.6



Tamil Nadu Pollution Control Board
Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

CHENNAI

Name of the location: Besant Nagar (R)												
Date	Regulatory Parameters							Proposed New Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI	AQI Remarks	Metals in PM ₁₀			Metals in PM _{2.5}		
							Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)
24.10.2024	7.0	14.0	44.0	17.0	44	Good	BLQ	2.20	BLQ	BLQ	BLQ	BLQ
25.10.2024	9.0	15.0	51.0	19.0	51	Satisfactory	0.01	3.90	BLQ	BLQ	BLQ	BLQ
26.10.2024	8.0	19.0	53.0	16.0	53	Satisfactory	0.01	2.60	BLQ	BLQ	BLQ	BLQ
27.10.2024	9.0	21.0	55.0	18.0	55	Satisfactory	0.03	2.80	BLQ	BLQ	BLQ	BLQ
28.10.2024	10.0	19.0	54.0	22.0	54	Satisfactory	0.02	3.90	BLQ	BLQ	BLQ	BLQ
29.10.2024	12.0	21.0	54.0	20.0	54	Satisfactory	0.02	4.10	BLQ	5.00	2.44	2.54
30.10.2024	14.0	24.0	68.0	26.0	68	Satisfactory	0.02	4.50	BLQ	10.54	8.63	3.86
31.10.2024	24.0	31.0	210.0	96.0	220	Poor	1.50	15.60	4.20	34.42	37.67	10.30
01.11.2024	11.0	24.0	92.0	34.0	92	Moderate	0.12	8.50	BLQ	11.39	10.57	3.55
02.11.2024	8.0	19.0	62.0	20.0	62	Satisfactory	0.02	5.60	BLQ	5.80	3.20	3.10
03.11.2024	10.0	18.0	58.0	22.0	58	Satisfactory	0.01	4.20	BLQ	BLQ	BLQ	BLQ
04.11.2024	9.0	20.0	56.0	21.0	56	Satisfactory	0.04	3.50	BLQ	BLQ	BLQ	BLQ
05.11.2024	8.0	18.0	52.0	19.0	52	Satisfactory	0.01	3.00	BLQ	BLQ	BLQ	BLQ
06.11.2024	6.0	14.0	42.0	11.0	42	Good	0.01	2.80	BLQ	BLQ	BLQ	BLQ
07.11.2024	7.0	12.0	38.0	13.0	38	Good	0.01	2.60	BLQ	BLQ	BLQ	BLQ
Note: BLQ - Below Limit of Quantification												
* All Values (24 hourly Average) are in µg/m ³ , Ni and As are in ng/m ³												



Tamil Nadu Pollution Control Board
Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

CHENNAI

Name of the location: T. Nagar (C)												
Date	Regulatory Parameters							Proposed New Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI	AQI Remarks	Metals in PM ₁₀			Metals in PM _{2.5}		
							Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)
24.10.2024	9.0	23.0	65.0	29.0	65	Satisfactory	0.01	2.40	BLQ	BLQ	BLQ	BLQ
25.10.2024	11.0	26.0	72.0	27.0	72	Satisfactory	0.01	2.20	BLQ	BLQ	BLQ	BLQ
26.10.2024	14.0	25.0	74.0	28.0	74	Satisfactory	0.01	2.40	BLQ	BLQ	BLQ	BLQ
27.10.2024	17.0	28.0	75.0	31.0	75	Satisfactory	0.02	2.70	BLQ	BLQ	BLQ	BLQ
28.10.2024	15.0	27.0	73.0	30.0	73	Satisfactory	0.04	3.50	BLQ	BLQ	BLQ	BLQ
29.10.2024	14.0	26.0	71.0	26.0	71	Satisfactory	0.04	4.60	BLQ	9.00	11.2	BLQ
30.10.2024	16.0	27.0	80.0	30.0	80	Satisfactory	0.08	7.20	1.30	11.95	9.64	3.77
31.10.2024	17.0	25.0	180.0	91.0	203	Poor	1.76	10.40	5.00	37.16	38.32	11.66
01.11.2024	15.0	23.0	98.0	38.0	98	Satisfactory	0.12	8.20	3.40	14.12	12.68	4.50
02.11.2024	10.0	17.0	78.0	27.0	78	Satisfactory	0.06	2.20	BLQ	6.05	7.30	2.17
03.11.2024	12.0	25.0	74.0	28.0	74	Satisfactory	0.02	2.20	BLQ	BLQ	1.24	BLQ
04.11.2024	13.0	27.0	70.0	30.0	70	Satisfactory	0.01	2.10	BLQ	BLQ	BLQ	BLQ
05.11.2024	14.0	24.0	68.0	27.0	68	Satisfactory	0.01	2.10	BLQ	BLQ	BLQ	BLQ
06.11.2024	9.0	18.0	59.0	15.0	59	Satisfactory	0.01	2.10	BLQ	BLQ	BLQ	BLQ
07.11.2024	10.0	16.0	53.0	16.0	53	Satisfactory	0.01	2.10	BLQ	BLQ	BLQ	BLQ
Note: BLQ - Below Limit of Quantification												
* All Values (24 hourly Average) are in µg/m ³ , Ni and As are in ng/m ³												



Tamil Nadu Pollution Control Board
Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

CHENNAI

Name of the location: Nungambakkam (R)												
Date	Regulatory Parameters							Proposed New Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI	AQI Remarks	Metals in PM ₁₀			Metals in PM _{2.5}		
							Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)
24.10.2024	9.0	18.0	40.0	21.0	40	Good	0.03	1.60	BLQ	BLQ	BLQ	BLQ
25.10.2024	8.0	12.0	60.0	22.0	60	Satisfactory	0.11	2.50	BLQ	BLQ	BLQ	BLQ
26.10.2024	10.0	21.0	63.0	24.0	63	Satisfactory	0.16	3.80	BLQ	BLQ	BLQ	BLQ
27.10.2024	11.0	22.0	62.0	23.0	62	Satisfactory	0.10	4.40	BLQ	BLQ	BLQ	BLQ
28.10.2024	12.0	20.0	64.0	26.0	64	Satisfactory	0.11	4.80	BLQ	BLQ	BLQ	BLQ
29.10.2024	13.0	23.0	62.0	25.0	62	Satisfactory	0.17	5.16	1.20	BLQ	BLQ	BLQ
30.10.2024	12.0	22.0	68.0	27.0	68	Satisfactory	0.12	8.20	2.90	12.48	9.15	5.70
31.10.2024	21.0	27.0	198.0	99.0	230	Poor	3.60	10.80	3.60	35.23	42.78	12.99
01.11.2024	14.0	25.0	117.0	42.0	111	Moderate	1.11	5.10	2.00	13.15	12.44	4.82
02.11.2024	10.0	25.0	77.0	26.0	77	Satisfactory	0.06	3.40	BLQ	2.80	2.10	2.60
03.11.2024	11.0	23.0	72.0	24.0	72	Satisfactory	0.02	5.10	BLQ	1.10	BLQ	BLQ
04.11.2024	10.0	24.0	69.0	22.0	69	Satisfactory	0.01	3.40	BLQ	BLQ	BLQ	BLQ
05.11.2024	11.0	21.0	66.0	20.0	66	Satisfactory	0.01	BLQ	BLQ	BLQ	BLQ	BLQ
06.11.2024	8.0	18.0	55.0	13.0	55	Satisfactory	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
07.11.2024	6.0	14.0	50.0	15.0	50	Good	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Note: BLQ - Below Limit of Quantification * All Values (24 hourly Average) are in µg/m³, Ni and As are in ng/m³												



Tamil Nadu Pollution Control Board
Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

CHENNAI

Name of the location: Triplicane (R)												
Date	Regulatory Parameters							Proposed New Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI	AQI Remarks	Metals in PM ₁₀			Metals in PM _{2.5}		
							Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)
24.10.2024	13.0	20.0	52.0	22.0	52	Satisfactory	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
25.10.2024	12.0	19.0	64.0	20.0	64	Satisfactory	0.01	2.70	BLQ	BLQ	BLQ	BLQ
26.10.2024	9.0	17.0	65.0	21.0	65	Satisfactory	0.01	2.50	BLQ	BLQ	BLQ	BLQ
27.10.2024	10.0	21.0	66.0	22.0	66	Satisfactory	0.02	2.10	BLQ	BLQ	BLQ	BLQ
28.10.2024	11.0	18.0	60.0	21.0	60	Satisfactory	0.02	3.50	BLQ	BLQ	BLQ	BLQ
29.10.2024	10.0	20.0	61.0	18.0	61	Satisfactory	0.03	4.00	2.00	2.80	4.20	BLQ
30.10.2024	14.0	24.0	64.0	24.0	64	Satisfactory	0.06	5.20	3.10	12.87	7.48	1.03
31.10.2024	19.0	28.0	192.0	89.0	197	Moderate	1.70	9.20	4.10	34.42	37.67	10.83
01.11.2024	12.0	20.0	96.0	36.0	96	Satisfactory	0.26	7.90	2.90	11.60	10.16	3.94
02.11.2024	9.0	28.0	64.0	25.0	64	Satisfactory	0.02	3.20	1.60	BLQ	BLQ	BLQ
03.11.2024	8.0	22.0	62.0	21.0	62	Satisfactory	0.01	2.80	1.40	BLQ	BLQ	BLQ
04.11.2024	9.0	20.0	63.0	20.0	63	Satisfactory	0.01	2.20	BLQ	BLQ	BLQ	BLQ
05.11.2024	7.0	16.0	59.0	18.0	59	Satisfactory	0.02	2.10	BLQ	BLQ	BLQ	BLQ
06.11.2024	6.0	14.0	48.0	12.0	48	Good	0.02	BLQ	BLQ	BLQ	BLQ	BLQ
07.11.2024	9.0	11.0	44.0	13.0	44	Good	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Note: BLQ - Below Limit of Quantification												
* All Values (24 hourly Average) are in µg/m ³ . Ni and As are in ng/m ³												



Tamil Nadu Pollution Control Board
Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

CHENNAI

Name of the location: Sowcarpet (C)												
Date	Regulatory Parameters							Proposed New Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI	AQI Remarks	Metals in PM ₁₀			Metals in PM _{2.5}		
							Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)
24.10.2024	15.0	24.0	61.0	23.0	61	Satisfactory	0.01	4.50	BLQ	BLQ	BLQ	BLQ
25.10.2024	13.0	21.0	61.0	24.0	61	Satisfactory	0.01	5.20	BLQ	BLQ	BLQ	BLQ
26.10.2024	12.0	23.0	60.0	26.0	60	Satisfactory	0.02	5.50	BLQ	BLQ	BLQ	BLQ
27.10.2024	14.0	18.0	63.0	24.0	63	Satisfactory	0.04	5.50	BLQ	BLQ	BLQ	BLQ
28.10.2024	13.0	21.0	62.0	23.0	62	Satisfactory	0.04	5.70	BLQ	BLQ	BLQ	BLQ
29.10.2024	11.0	19.0	73.0	24.0	73	Satisfactory	0.08	6.90	BLQ	8.79	4.10	2.80
30.10.2024	17.0	28.0	97.0	33.0	97	Satisfactory	0.18	7.30	3.20	10.56	8.31	4.63
31.10.2024	18.0	24.0	159.0	88.0	193	Moderate	2.20	11.40	5.30	35.37	35.69	9.97
01.11.2024	16.0	28.0	106.0	40.0	104	Moderate	0.09	6.80	2.40	14.44	10.94	5.14
02.11.2024	11.0	27.0	76.0	28.0	76	Satisfactory	BLQ	5.20	BLQ	3.80	3.20	1.40
03.11.2024	13.0	20.0	73.0	25.0	73	Satisfactory	BLQ	5.10	BLQ	BLQ	BLQ	BLQ
04.11.2024	11.0	18.0	70.0	24.0	70	Satisfactory	BLQ	5.60	BLQ	BLQ	BLQ	BLQ
05.11.2024	9.0	21.0	67.0	23.0	67	Satisfactory	BLQ	5.00	BLQ	BLQ	BLQ	BLQ
06.11.2024	8.0	19.0	58.0	14.0	58	Satisfactory	BLQ	4.80	BLQ	BLQ	BLQ	BLQ
07.11.2024	7.0	17.0	51.0	12.0	51	Satisfactory	BLQ	4.50	BLQ	BLQ	BLQ	BLQ
Note: BLQ - Below Limit of Quantification												
* All Values (24 hourly Average) are in µg/m³, Ni and As are in ng/m³												



Tamil Nadu Pollution Control Board
Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

CHENNAI

Name of the location: Valasaravakkam (R)												
Date	Regulatory Parameters							Proposed New Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI	AQI Remarks	Metals in PM ₁₀			Metals in PM _{2.5}		
							Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)
24.10.2024	16.0	24.0	62.0	25.0	62	Satisfactory	0.01	4.90	BLQ	BLQ	BLQ	BLQ
25.10.2024	14.0	22.0	73.0	26.0	73	Satisfactory	0.01	4.70	BLQ	BLQ	BLQ	BLQ
26.10.2024	10.0	21.0	71.0	23.0	71	Satisfactory	0.02	5.30	BLQ	BLQ	BLQ	BLQ
27.10.2024	12.0	23.0	74.0	20.0	74	Satisfactory	0.02	5.60	BLQ	BLQ	BLQ	BLQ
28.10.2024	14.0	22.0	70.0	25.0	70	Satisfactory	0.16	5.20	BLQ	BLQ	BLQ	BLQ
29.10.2024	12.0	20.0	70.0	23.0	70	Satisfactory	0.03	5.80	1.60	BLQ	BLQ	BLQ
30.10.2024	15.0	25.0	85.0	29.0	85	Satisfactory	0.36	6.50	4.40	11.48	8.47	3.97
31.10.2024	31.0	43.0	328.0	116.0	287	Poor	6.84	14.50	7.90	49.17	47.92	11.29
01.11.2024	17.0	27.0	142.0	43.0	128	Moderate	0.29	9.20	2.80	14.16	20.15	4.11
02.11.2024	11.0	28.0	82.0	31.0	82	Satisfactory	0.18	4.10	BLQ	7.61	7.15	1.30
03.11.2024	12.0	27.0	75.0	29.0	75	Satisfactory	0.14	4.60	BLQ	3.50	BLQ	BLQ
04.11.2024	13.0	25.0	76.0	27.0	76	Satisfactory	0.03	4.40	BLQ	BLQ	BLQ	BLQ
05.11.2024	12.0	20.0	70.0	25.0	70	Satisfactory	0.02	4.90	BLQ	BLQ	BLQ	BLQ
06.11.2024	10.0	21.0	62.0	16.0	62	Satisfactory	0.01	4.20	BLQ	BLQ	BLQ	BLQ
07.11.2024	8.0	19.0	55.0	18.0	55	Satisfactory	0.01	4.50	BLQ	BLQ	BLQ	BLQ
Note: BLQ - Below Limit of Quantification * All Values (24 hourly Average) are in µg/m³, Ni and As are in ng/m³												



Tamil Nadu Pollution Control Board
Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

CHENNAI

Name of the location: Tiruvottiyur (C)												
Date	Regulatory Parameters						Proposed New Parameters					
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI	AQI Remarks	Metals in PM ₁₀			Metals in PM _{2.5}		
							Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)
24.10.2024	12.0	18.0	45.0	17.0	45	Good	BLQ	1.80	BLQ	BLQ	BLQ	BLQ
25.10.2024	10.0	19.0	54.0	19.0	54	Satisfactory	0.01	2.00	BLQ	BLQ	BLQ	BLQ
26.10.2024	9.0	16.0	51.0	21.0	51	Satisfactory	0.01	2.20	BLQ	BLQ	BLQ	BLQ
27.10.2024	11.0	18.0	53.0	20.0	53	Satisfactory	0.01	2.00	BLQ	BLQ	BLQ	BLQ
28.10.2024	9.0	17.0	57.0	18.0	57	Satisfactory	0.02	2.60	BLQ	BLQ	BLQ	BLQ
29.10.2024	10.0	16.0	58.0	17.0	58	Satisfactory	0.02	3.40	BLQ	BLQ	BLQ	BLQ
30.10.2024	10.0	21.0	62.0	25.0	62	Satisfactory	0.03	5.00	BLQ	8.85	7.30	3.01
31.10.2024	19.0	27.0	136.0	75.0	150	Moderate	1.10	11.40	3.60	28.46	24.91	9.22
01.11.2024	10.0	16.0	85.0	28.0	85	Satisfactory	0.10	3.20	BLQ	9.52	10.11	2.71
02.11.2024	8.0	23.0	65.0	22.0	65	Satisfactory	0.06	2.20	BLQ	7.10	4.40	1.43
03.11.2024	9.0	22.0	60.0	20.0	60	Satisfactory	0.04	2.10	BLQ	BLQ	BLQ	BLQ
04.11.2024	8.0	19.0	58.0	18.0	58	Satisfactory	0.02	0.78	BLQ	BLQ	BLQ	BLQ
05.11.2024	9.0	15.0	55.0	17.0	55	Satisfactory	0.02	2.10	BLQ	BLQ	BLQ	BLQ
06.11.2024	7.0	16.0	44.0	11.0	44	Good	0.02	2.10	BLQ	BLQ	BLQ	BLQ
07.11.2024	6.0	15.0	40.0	10.0	40	Good	0.01	2.00	BLQ	BLQ	BLQ	BLQ
Note: BLQ - Below Limit of Quantification												
* All Values (24 hourly Average) are in µg/m³, Ni and As are in ng/m³												



Deepavali Monitoring 2024

Chengalpet

City:

- Latitude & Longitude : 12.88° N, 80.08° E
- Climate / Meteorology
 - Pre-Deepavali : Drizzling with partially cloudy
 - Deepavali Day : Partially Cloudy
- Population : 62,579 (2011 Census)
- Major Land use : Mixed

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : **Noise level survey**
MM Nagar (R)
Pallavaram (C)

Ambient Air quality Survey
MM Nagar (R)
Pallavaram (C)
- Activities around the monitoring location /
Sources of Noise Pollution : Crackers were burnt near the
monitoring stations during
Deepavali festival. Various types of
vehicle movement observed.



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

CHENGALPET

Location: Maraimalai Nagar (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	56.5	65.7	62.7	57.9	119.6	89.0
19:00 to 20:00 Hr	54.5	84.0	62.6	58.6	106.4	79.9
20:00 to 21:00 Hr	51.9	76.1	60.7	52.9	103.5	72.4
21:00 to 22:00 Hr	52.0	73.2	60.2	47.8	101.2	71.2
22:00 to 23:00 Hr	50.6	87.3	62.7	50.1	93.7	66.4
23:00 to 24:00 Hr	49.9	83.9	57.3	50.0	89.4	57.7

Location: Pallavaram (C)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	47.3	54.1	51.3	57.8	82.7	71.3
19:00 to 20:00 Hr	51.0	62.6	57.5	55.7	92.3	73.4
20:00 to 21:00 Hr	45.6	63.1	55.6	57.6	86.9	70.5
21:00 to 22:00 Hr	44.9	68.1	57.3	50.3	89.3	68.8
22:00 to 23:00 Hr	42.7	69.8	58.1	55.5	78.8	65.1
23:00 to 24:00 Hr	44.1	63.1	54.2	46.7	77.5	60.4



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

CHENGALPET

Name of the location: Maraimalainagar (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	8.0	9.0	84.0	28.0	84
25.10.2024	4.0	6.0	46.0	12.0	46
26.10.2024	3.0	5.0	69.0	18.0	69
27.10.2024	4.0	5.0	63.0	14.0	63
28.10.2024	3.0	4.0	91.0	18.0	91
29.10.2024	4.0	8.0	93.0	22.0	93
30.10.2024	4.0	7.0	97.0	24.0	97
31.10.2024	27.0	31.0	143.0	52.0	129
01.11.2024	12.0	16.0	76.0	24.0	76
02.11.2024	8.0	12.0	61.0	18.0	61
03.11.2024	12.0	16.0	64.0	18.0	64
04.11.2024	15.0	18.0	64.0	22.0	64
05.11.2024	12.0	15.0	62.0	30.0	62
06.11.2024	10.0	14.0	60.0	32.0	60
07.11.2024	15.0	18.0	61.0	30.0	61
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

CHENGALPET

Name of the location: Pallavaram (C)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	9.0	12.0	92.0	31.0	92
25.10.2024	7.0	6.0	52.0	14.0	52
26.10.2024	3.0	16.0	98.0	32.0	98
27.10.2024	4.0	16.0	94.0	37.0	94
28.10.2024	4.0	8.0	94.0	31.0	94
29.10.2024	6.0	10.0	97.0	26.0	97
30.10.2024	9.0	12.0	104.0	28.0	103
31.10.2024	28.0	37.0	155.0	58.0	137
01.11.2024	13.0	21.0	95.0	39.0	95
02.11.2024	12.0	15.0	70.0	25.0	70
03.11.2024	10.0	12.0	53.0	23.0	53
04.11.2024	16.0	22.0	61.0	27.0	61
05.11.2024	15.0	20.0	65.0	22.0	65
06.11.2024	13.0	17.0	61.0	30.0	61
07.11.2024	12.0	15.0	54.0	18.0	54
* All Values (24 hourly Average) are in µg/m ³					



Deepavali Monitoring 2024

Coimbatore

City:

- Latitude & Longitude : 11.00° N, 76.96° E
- Climate / Meteorology
 - Pre-Deepavali : Clear Sky
 - Deepavali Day : Clear Sky
- Population : 34,58,045 (2011 Census)
- Major Land use : Mixed use

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : Noise level survey
(Residential, Commercial and Silence) Kavundampalayam (R)
District Collectorate (M)
Ambient Air quality Survey
Kavundampalayam (R)
District Collectorate (M)
- Activities around the monitoring location / Sources of Noise Pollution : Pre-Deepavali – Predominant Vehicle Movements and no Crackers sound.

Deepavali – Crackers sound with Vehicle Movements.



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

COIMBATORE

Location: Kavundampalayam (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	51.3	94.6	60.5	51.3	101.9	73.9
19:00 to 20:00 Hr	50.0	92.3	52.8	58.6	107.0	80.8
20:00 to 21:00 Hr	49.2	92.9	53.8	55.5	101.5	70.6
21:00 to 22:00 Hr	47.8	94.9	50.1	51.4	99.1	78.5
22:00 to 23:00 Hr	48.1	85.0	48.8	49.7	100.2	55.4
23:00 to 24:00 Hr	47.1	90.0	49.7	47.0	100.5	55.0

Location: District Collectorate (M)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	50.6	95.3	61.4	48.5	87.5	68.4
19:00 to 20:00 Hr	50.6	95.3	61.0	51.2	90.2	65.1
20:00 to 21:00 Hr	50.0	90.5	61.5	49.8	93.3	68.0
21:00 to 22:00 Hr	48.6	79.3	57.7	55.9	69.2	62.6
22:00 to 23:00 Hr	48.6	78.4	57.1	49.0	89.9	60.7
23:00 to 24:00 Hr	47.6	77.4	55.5	47.3	83.6	57.8



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

COIMBATORE

Name of the location: Kavundampalayam (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	7.1	16.0	32.0	19.0	32
25.10.2024	6.3	15.9	35.0	20.0	35
26.10.2024	5.7	14.3	38.0	16.0	38
27.10.2024	4.8	15.1	26.0	10.0	26
28.10.2024	5.9	16.4	36.0	12.0	36
29.10.2024	7.6	14.5	56.0	22.0	56
30.10.2024	11.2	23.2	94.0	38.0	94
31.10.2024	23.2	48.3	138.0	73.0	143
01.11.2024	12.9	23.7	113.0	64.0	113
02.11.2024	10.1	18.5	85.0	50.0	85
03.11.2024	6.2	15.8	58.0	32.0	58
04.11.2024	7.8	17.6	64.0	38.0	64
05.11.2024	8.4	18.5	46.0	24.0	46
06.11.2024	8.4	16.5	44.0	20.0	44
07.11.2024	7.6	14.5	46.0	25.0	46
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

COIMBATORE

Name of the location: District Collectorate (M)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	5.9	16.2	36.0	24.0	36
25.10.2024	7.4	16.9	39.0	12.0	39
26.10.2024	7.3	18.1	42.0	20.0	42
27.10.2024	6.5	11.9	34.0	12.0	34
28.10.2024	5.6	16.2	48.0	16.0	48
29.10.2024	10.0	20.0	63.0	28.0	63
30.10.2024	13.2	27.2	98.0	46.0	98
31.10.2024	19.1	39.5	127.0	68.0	127
01.11.2024	10.1	20.5	107.0	62.0	107
02.11.2024	8.0	17.2	78.0	46.0	78
03.11.2024	7.5	18.7	52.0	30.0	52
04.11.2024	7.2	16.5	56.0	33.0	56
05.11.2024	7.6	17.7	42.0	20.0	42
06.11.2024	9.9	19.0	48.0	22.0	48
07.11.2024	10.3	20.8	60.0	36.0	60
* All Values (24 hourly Average) are in µg/m ³					



Deepavali Monitoring 2024

Cuddalore

City:

- Latitude & Longitude : 11.74° N, 79.77° E
- Climate / Meteorology
 - Pre Deepavali : Drizzled and cloudy
 - Deepavali : Rain Showers and cloudy
- Population : 26,05,914 (2011 Census)
- Major Land use : Mixed

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : Noise level survey
(Residential, Commercial and Silence) Imperial Road (C)
Collectorate Complex (R)
Ambient Air quality Survey
Imperial Road (C)
Collectorate Complex (R)
- Activities around the monitoring location / Sources of Noise Pollution : Fire-crackers were burst near the above mentioned monitoring locations during Deepavali day .



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

CUDDALORE

Location: Imperial Road (C)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	61.9	90.3	72.2	55.8	95.6	75.7
19:00 to 20:00 Hr	56.0	84.0	68.6	59.9	99.2	77.3
20:00 to 21:00 Hr	55.7	86.0	67.3	61.2	99.4	75.5
21:00 to 22:00 Hr	56.9	83.7	62.7	59.5	98.6	73.7
22:00 to 23:00 Hr	57.9	87.5	67.5	59.9	88.3	71.1
23:00 to 24:00 Hr	64.1	76.6	66.8	54.1	83.1	61.1

Location: Collectorate Complex (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	59.8	78.1	64.9	52.8	94.1	70.9
19:00 to 20:00 Hr	52.6	81.1	68.5	60.1	100.2	73.4
20:00 to 21:00 Hr	43.1	80.2	60.9	57.2	101.8	71.2
21:00 to 22:00 Hr	43.9	78.1	61.9	47.4	87.8	67.1
22:00 to 23:00 Hr	41.2	68.2	60.1	45.1	82.2	65.9
23:00 to 24:00 Hr	36.4	59.9	58.0	43.9	80.1	62.6



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

CUDDALORE

Name of the location: Imperial Road (C)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	14.9	22.2	41.0	17.0	41
25.10.2024	19.2	27.4	44.0	19.0	44
26.10.2024	23.3	28.2	42.0	18.0	42
27.10.2024	26.5	33.3	45.0	20.0	45
28.10.2024	27.8	33.6	51.0	23.0	51
29.10.2024	28.2	34.2	68.0	26.0	68
30.10.2024	27.4	33.1	72.0	31.0	72
31.10.2024	44.4	51.0	128.0	43.0	119
01.11.2024	32.1	40.3	89.0	26.0	89
02.11.2024	28.0	38.0	78.0	30.0	78
03.11.2024	33.2	40.3	75.0	29.0	75
04.11.2024	32.5	40.3	73.0	27.0	73
05.11.2024	29.7	35.3	81.0	30.0	81
06.11.2024	29.1	39.2	76.0	28.0	76
07.11.2024	29.1	37.6	72.0	27.0	72
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

CUDDALORE

Name of the location: Collectorate Complex (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	9.4	16.3	22.0	8.0	22
25.10.2024	13.3	18.3	26.0	11.0	26
26.10.2024	11.2	15.2	23.0	9.0	23
27.10.2024	20.9	27.1	25.0	12.0	25
28.10.2024	20.5	28.1	41.0	19.0	41
29.10.2024	23.3	27.0	52.0	22.0	52
30.10.2024	23.2	28.1	58.0	23.0	58
31.10.2024	36.2	46.3	96.0	39.0	96
01.11.2024	25.9	31.0	63.0	25.0	63
02.11.2024	21.5	26.5	64.0	26.0	64
03.11.2024	23.3	30.8	60.0	19.0	60
04.11.2024	23.3	27.4	58.0	18.0	58
05.11.2024	21.1	26.9	57.0	18.0	57
06.11.2024	22.4	28.1	56.0	19.0	56
07.11.2024	22.7	32.1	60.0	22.0	60
* All Values (24 hourly Average) are in µg/m ³					



Deepavali Monitoring 2024

Dindigul

City:

- Latitude & Longitude : 10.38° N, 77.96° E
- Climate / Meteorology
 - Pre Deepavali : Clear sky
 - Deepavali : Clear sky
- Population : 21,59,775 (2011 Census)
- Major Land use : Residential and Commercial

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : Noise level survey
(Residential, Commercial and Silence) Collector Office Complex (R)
Urban Health Centre (C)
Ambient Air quality Survey
Collector Office Complex (R)
Urban Health Centre (C)
- Activities around the monitoring location / Sources of Noise Pollution : Regular public activities along with Crackers bursting noise.



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

DINDIGUL

Location: Collector office Complex (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	40.8	69.4	48.6	67.6	116.5	82.4
19:00 to 20:00 Hr	38.4	71.8	46.3	65.2	118.6	84.6
20:00 to 21:00 Hr	36.3	66.7	43.4	63.8	117.3	83.8
21:00 to 22:00 Hr	37.8	64.9	40.7	58.1	106.4	80.2
22:00 to 23:00 Hr	36.2	56.2	39.1	57.2	96.5	72.4
23:00 to 24:00 Hr	36.2	51.8	38.6	56.7	94.3	68.3

Location: Urban Health Centre (C)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	68.8	98.5	79.1	70.8	112.7	88.2
19:00 to 20:00 Hr	68.2	94.9	77.1	72.5	113.1	85.5
20:00 to 21:00 Hr	65.7	101.6	77.3	71.7	118.9	86.3
21:00 to 22:00 Hr	64.5	97.7	76.4	66.4	111.0	82.0
22:00 to 23:00 Hr	60.8	96.1	72.4	55.1	108.9	76.7
23:00 to 24:00 Hr	58.9	91.3	65.2	48.1	108.3	71.9



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

DINDIGUL

Name of the location: Collector Office Complex (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	7.0	10.0	42.0	19.0	42
25.10.2024	6.0	9.0	38.0	16.0	38
26.10.2024	9.0	14.0	46.0	21.0	46
27.10.2024	11.0	15.0	49.0	24.0	49
28.10.2024	10.0	14.0	43.0	21.0	43
29.10.2024	14.0	19.0	71.0	29.0	71
30.10.2024	17.0	23.0	79.0	35.0	79
31.10.2024	23.0	29.0	118.0	65.0	117
01.11.2024	19.0	25.0	80.0	40.0	80
02.11.2024	13.0	18.0	61.0	29.0	61
03.11.2024	12.0	16.0	52.0	23.0	52
04.11.2024	12.0	15.0	46.0	21.0	46
05.11.2024	10.0	14.0	43.0	19.0	43
06.11.2024	11.0	16.0	45.0	22.0	45
07.11.2024	13.0	17.0	48.0	25.0	48
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

DINDIGUL

Name of the location: Urban Health Centre (C)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	8.0	12.0	48.0	23.0	48
25.10.2024	7.0	10.0	43.0	19.0	43
26.10.2024	11.0	15.0	51.0	23.0	51
27.10.2024	13.0	17.0	53.0	25.0	53
28.10.2024	11.0	16.0	50.0	23.0	50
29.10.2024	16.0	20.0	87.0	34.0	87
30.10.2024	20.0	25.0	94.0	44.0	94
31.10.2024	25.0	31.0	129.0	86.0	187
01.11.2024	20.0	25.0	88.0	45.0	88
02.11.2024	15.0	19.0	67.0	32.0	67
03.11.2024	13.0	18.0	59.0	26.0	59
04.11.2024	11.0	15.0	52.0	23.0	52
05.11.2024	11.0	16.0	49.0	20.0	49
06.11.2024	12.0	18.0	50.0	26.0	50
07.11.2024	14.0	20.0	55.0	28.0	55
* All Values (24 hourly Average) are in µg/m ³					



Deepavali Monitoring 2024

Hosur

City:

- Latitude & Longitude : 12.73° N, 77.83° E
- Climate / Meteorology
 - Pre Deepavali : No Rainfall/ Hot weather
 - Deepavali : Partially cloudy no rainfall during monitoring
- Population : 18,79,809 (2011 Census)
- Major Land use : Residential/ Commercial/ Industrial

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : Noise level survey
 - (Residential, Commercial and Silence) Municipal Corporation Office (R)
 - Kamaraj Nagar High School (C)
 - Ambient Air quality Survey
 - Municipal Corporation Office (R)
 - Kamaraj Nagar High School (C)

Activities around the monitoring location /

Sources of Noise Pollution

: High level bursting of Crackers was noticed and measured during the monitoring period



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

HOSUR

Location: Municipal Corporation Office (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
Time duration						
18:00 to 19:00 Hr	58.8	72.3	64.7	59.1	95.3	75.3
19:00 to 20:00 Hr	52.3	84.7	63.4	59.7	97.5	73.2
20:00 to 21:00 Hr	44.0	75.1	63.8	65.2	87.5	77.2
21:00 to 22:00 Hr	56.0	62.1	57.9	56.9	106.4	95.7
22:00 to 23:00 Hr	57.3	65.7	61.2	51.7	106.4	96.2
23:00 to 24:00 Hr	57.0	61.1	58.4	53.0	98.7	86.9

Location: Kamaraj Nagar High School (C)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
Time duration						
18:00 to 19:00 Hr	58.6	67.5	61.8	76.5	90.7	81.4
19:00 to 20:00 Hr	56.7	65.5	60.0	77.2	93.4	82.9
20:00 to 21:00 Hr	54.3	59.7	56.4	85.9	89.1	89.1
21:00 to 22:00 Hr	57.0	60.2	58.5	80.2	90.9	85.2
22:00 to 23:00 Hr	55.9	62.8	59.3	75.7	88.1	79.0
23:00 to 24:00 Hr	57.8	63.9	60.2	60.7	71.0	65.9



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

HOSUR

Name of the location: Municipal Corporation Office (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	9.1	13.4	54.7	20.6	55
25.10.2024	9.9	14.1	44.7	21.9	45
26.10.2024	10.7	16.2	61.4	15.3	61
27.10.2024	9.9	18.1	43.6	21.0	47
28.10.2024	12.0	20.1	69.8	14.6	70
29.10.2024	13.9	21.0	95.6	31.3	96
30.10.2024	13.5	23.4	92.7	34.8	93
31.10.2024	21.7	29.7	171.5	55.2	148
01.11.2024	13.5	25.8	173.5	34.8	149
02.11.2024	8.4	20.8	75.4	27.4	75
03.11.2024	10.1	19.5	94.9	21.1	95
04.11.2024	9.3	20.0	91.2	28.0	91
05.11.2024	8.2	18.2	90.3	20.5	90
06.11.2024	9.5	19.6	79.9	24.8	80
07.11.2024	8.6	18.9	62.7	23.7	63
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

HOSUR

Name of the location: Kamaraj Nagar High School (C)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	13.3	17.6	33.8	22.7	38
25.10.2024	8.4	17.1	79.3	21.6	79
26.10.2024	11.0	19.2	82.2	23.9	82
27.10.2024	11.8	17.0	64.8	21.9	65
28.10.2024	9.1	21.7	74.0	18.9	74
29.10.2024	13.7	24.9	83.7	35.8	84
30.10.2024	14.3	19.6	93.0	28.0	93
31.10.2024	20.9	29.7	182.8	41.7	155
01.11.2024	13.1	20.5	63.2	21.6	63
02.11.2024	11.0	21.1	54.2	20.6	54
03.11.2024	9.7	21.6	73.2	20.9	73
04.11.2024	8.4	20.8	54.6	20.7	55
05.11.2024	7.8	18.7	38.6	21.1	39
06.11.2024	7.4	20.1	79.6	24.6	80
07.11.2024	8.0	21.9	60.6	14.3	61
* All Values (24 hourly Average) are in µg/m ³					



Deepavali Monitoring 2024

Kancheepuram

City:

- Latitude & Longitude : 12.83° N, 79.70° E
- Climate / Meteorology
 - Pre Deepavali : Clear Sky
 - Deepavali : Clear Sky
- Population : 39,98,252 (2011 Census)
- Major Land use : Mixed

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : Noise level survey
(Residential, Commercial and Silence) Little Kancheepuram (R)

Ambient Air quality Survey
Little Kancheepuram (R)
IOB Kancheepuram Bus Stand (C)
- Activities around the monitoring location / Sources of Noise Pollution : **First Location:** High crackers were burst near the monitoring station during festival day.

Second Location: Public movements through the bus stand and less crackers were burst on festival day.



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

KANCHEEPURAM

Location: Little Kancheepuram (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	47.6	102.0	58.2	50.7	105.6	69.7
19:00 to 20:00 Hr	51.1	90.9	55.9	51.5	122.8	91.8
20:00 to 21:00 Hr	51.8	98.0	54.5	53.2	121.1	81.3
21:00 to 22:00 Hr	50.9	96.4	51.9	52.5	103.1	71.6
22:00 to 23:00 Hr	38.1	78.4	45.6	49.1	94.5	65.0
23:00 to 24:00 Hr	38.8	63.9	46.0	38.5	68.9	48.3



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

KANCHEEPURAM

Name of the location: Little Kancheepuram (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	5.6	12.1	72.0	30.0	72
25.10.2024	4.4	10.1	49.0	21.0	49
26.10.2024	5.4	11.8	69.0	28.0	69
27.10.2024	5.8	12.0	70.0	25.0	70
28.10.2024	6.3	13.8	90.0	33.0	90
29.10.2024	5.4	12.2	60.0	22.0	60
30.10.2024	13.6	29.9	114.0	42.0	109
31.10.2024	16.0	33.3	240.0	75.0	193
01.11.2024	7.9	16.6	94.0	33.0	94
02.11.2024	7.1	14.9	61.0	25.0	61
03.11.2024	6.8	13.9	57.0	21.0	57
04.11.2024	6.0	12.9	44.0	19.0	44
05.11.2024	6.1	13.0	63.0	25.0	63
06.11.2024	5.9	12.8	57.0	21.0	57
07.11.2024	5.2	11.9	42.0	19.0	42
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

KANCHEEPURAM

Name of the location: IOB-Bus Stand (C)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	6.4	12.5	96.0	39.0	96
25.10.2024	5.0	12.1	58.0	26.0	58
26.10.2024	6.0	14.1	80.0	31.0	80
27.10.2024	6.1	14.3	87.0	39.0	87
28.10.2024	7.1	17.6	103.0	27.0	102
29.10.2024	5.3	12.3	66.0	24.0	66
30.10.2024	14.1	30.7	120.0	43.0	113
31.10.2024	15.3	31.8	171.0	60.0	147
01.11.2024	7.0	14.4	92.0	30.0	92
02.11.2024	6.4	14.0	67.0	26.0	67
03.11.2024	6.2	13.4	73.0	26.0	73
04.11.2024	6.1	13.1	58.0	21.0	58
05.11.2024	6.7	14.0	78.0	24.0	78
06.11.2024	6.2	13.8	81.0	26.0	81
07.11.2024	5.3	12.6	66.0	21.0	66
* All Values (24 hourly Average) are in µg/m ³					



Deepavali Monitoring 2024

Madurai

City:

- Latitude & Longitude : 9.58° N, 78°10' E
- Climate / Meteorology
Pre Deepavali : Cloudy and Rainy Deepavali
Deepavali Day : Cloudy
- Population : 30,38,252 (2011 Census)
- Major Land use : Residential

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : Noise level survey
(Residential, Commercial and Silence) Thiru Nagar (R)
Birla Visram (C)
Ambient Air quality Survey
Thiru Nagar (R)
Birla Visram (C)
- Activities around the monitoring location /
Sources of Noise Pollution : Domestic and Commercial
activities.



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

MADURAI

Location: Thirunagar (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	46.7	92.6	61.8	55.4	106.7	76.2
19:00 to 20:00 Hr	48.7	93.0	66.2	58.9	109.3	78.5
20:00 to 21:00 Hr	51.2	91.2	68.9	51.1	82.4	75.8
21:00 to 22:00 Hr	46.2	78.0	57.2	60.5	80.6	73.1
22:00 to 23:00 Hr	43.6	77.4	59.2	59.4	78.8	68.0
23:00 to 24:00 Hr	45.8	79.0	54.8	40.6	71.7	51.3

Location: BirlaVisram (C)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	55.9	87.2	66.8	58.8	65.0	61.7
19:00 to 20:00 Hr	59.2	93.1	68.3	56.3	95.8	68.1
20:00 to 21:00 Hr	Rain			60.0	129.8	89.9
21:00 to 22:00 Hr	58.4	91.7	71.1	60.7	111.7	80.6
22:00 to 23:00 Hr	50.7	87.9	59.0	61.6	106.1	81.3
23:00 to 24:00 Hr	52.9	67.3	55.0	32.8	77.8	46.6



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

MADURAI

Name of the location: Thiru Nagar (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	8.0	17.0	29.6	7.0	30
25.10.2024	5.0	8.0	29.0	10.0	29
26.10.2024	10.0	23.0	64.0	8.0	64
27.10.2024	13.0	20.0	48.0	8.0	48
28.10.2024	14.0	19.0	50.0	8.0	50
29.10.2024	7.0	10.0	38.0	6.0	38
30.10.2024	9.0	12.0	63.3	14.5	63
31.10.2024	34.0	73.0	87.0	32.0	91
01.11.2024	15.0	52.0	63.0	18.2	63
02.11.2024	7.0	15.0	53.3	14.0	53
03.11.2024	7.0	14.0	25.0	6.0	25
04.11.2024	6.0	10.0	39.0	6.0	39
05.11.2024	9.0	13.0	42.0	6.0	42
06.11.2024	5.0	10.0	38.0	5.0	38
07.11.2024	6.0	11.0	40.0	6.0	40
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

MADURAI

Name of the location: Birla Vishram (C)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	6.0	10.0	50.0	6.0	50
25.10.2024	10.0	14.0	51.3	8.0	51
26.10.2024	12.0	17.0	60.0	8.0	60
27.10.2024	11.0	19.0	67.0	8.0	67
28.10.2024	13.0	18.0	60.0	8.0	60
29.10.2024	6.0	11.0	63.0	10.2	63
30.10.2024	7.0	11.0	55.6	14.6	56
31.10.2024	42.0	90.0	127.0	48.0	118
01.11.2024	21.5	49.0	71.0	24.6	71
02.11.2024	7.0	17.0	58.0	12.0	58
03.11.2024	7.0	14.0	63.0	8.0	63
04.11.2024	5.0	11.0	42.0	6.0	42
05.11.2024	7.0	10.0	48.0	6.0	48
06.11.2024	6.0	10.0	45.7	6.0	46
07.11.2024	6.0	10.0	49.0	6.0	49
* All Values (24 hourly Average) are in µg/m ³					



Deepavali Monitoring 2024

Nagapattinam

City:

- Latitude & Longitude : 10.76° N, 79.84° E
- Climate / Meteorology
 - Pre Deepavali : Cloudy
 - Deepavali : Cloudy
- Population : 16,16,450 (2011 Census)
- Major Land use : Residential

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : Noise level survey
(Residential, Commercial and Silence) Chekkadi Street (R)

Ambient Air quality Survey

Chekkadi Street (R)

MRP Nagar (R)

- Activities around the monitoring location / Sources of Noise Pollution : Crackers were burnt near the monitoring stations during Deepavali Festival.



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

NAGAPATTINAM

Location: Chekkadi Street (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	42.4	91.3	57.2	44.7	114.4	81.5
19:00 to 20:00 Hr	43.3	85.9	53.5	49.3	114.4	83.8
20:00 to 21:00 Hr	43.5	84.6	58	31.2	110.3	80.9
21:00 to 22:00 Hr	40.8	80.1	52.3	39.1	108.5	76
22:00 to 23:00 Hr	39.1	87.9	54.8	36.7	91.3	69.4
23:00 to 24:00 Hr	44.6	84.3	52.9	37.2	91.5	71



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

NAGAPATTINAM

Name of the location: Chekkadi Street (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	4.0	13.0	55.0	23.0	55
25.10.2024	4.0	9.0	35.0	12.0	35
26.10.2024	4.0	10.0	34.0	13.0	34
27.10.2024	5.0	11.0	36.0	14.0	36
28.10.2024	6.0	17.0	57.0	20.0	57
29.10.2024	8.0	20.0	65.0	35.0	65
30.10.2024	10.0	27.0	119.0	63.0	119
31.10.2024	11.0	36.0	137.0	43.0	125
01.11.2024	10.0	17.0	50.0	16.0	50
02.11.2024	9.0	14.0	36.0	13.0	36
03.11.2024	8.0	15.0	34.0	14.0	34
04.11.2024	7.0	19.0	51.0	13.0	51
05.11.2024	6.0	16.0	68.0	27.0	68
06.11.2024	5.0	11.0	77.0	12.0	77
07.11.2024	5.0	12.0	73.0	14.0	73
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

NAGAPATTINAM

Name of the location: MRP nagar (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	4.0	14.0	89.0	34.0	89
25.10.2024	5.0	19.0	89.0	17.0	89
26.10.2024	6.0	14.0	80.0	25.0	80
27.10.2024	8.0	16.0	85.0	30.0	85
28.10.2024	7.0	18.0	75.0	26.0	75
29.10.2024	9.0	17.0	116.0	37.0	116
30.10.2024	11.0	29.0	121.0	68.0	121
31.10.2024	13.0	45.0	174.0	59.0	149
01.11.2024	10.0	26.0	124.0	32.0	124
02.11.2024	9.0	39.0	103.0	29.0	103
03.11.2024	9.0	22.0	109.0	19.0	109
04.11.2024	10.0	30.0	125.0	31.0	125
05.11.2024	10.0	25.0	142.0	34.0	142
06.11.2024	6.0	14.0	111.0	19.0	111
07.11.2024	6.0	15.0	114.0	24.0	114
* All Values (24 hourly Average) are in µg/m ³					



Deepavali Monitoring 2024

Salem

City:

- Latitude & Longitude : 11.65° N, 78.16° E
- Climate / Meteorology
Pre Deepavali : Clear sky, Partially Cloudy
Deepavali Day : Clear sky, Partially Cloudy
- Population : 34,82,056 (2011 census)
- City Area : 124 Sq.km (48 Sq. miles)
- Major Land use : Commercial Activities Educational Institutions
Hospitals Production of Food Products like edible
Oil pulses and grams.

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : Noise level survey
(Residential, Commercial and Silence) Sri Saradha Balamandhir School(R)
Siva Tower (C&I)

Ambient Air quality Survey

Sri Saradha Balamandhir School(R)
Siva Tower (C&I)

Activities around the monitoring location /

Sources of Noise Pollution

: Location 1 - Residential area with
Schools and Hospitals.
Location 2 - Commercial and Industrial
area with Automobile Work Shops,
Sales centres of Automobile spares,
Malls, Hotels. Hence, Movement of
Public transport buses were observed.



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

SALEM

Location: Sri Saradha Balamandhir Boys Matric Hr. Sec. School (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	48.4	84.6	62.8	46.5	105.3	76.7
19:00 to 20:00 Hr	46.9	84.7	62.5	57.2	107.8	81.3
20:00 to 21:00 Hr	57.5	92.2	69.3	53.6	106.7	82.6
21:00 to 22:00 Hr	47.6	81.2	63.8	49.2	104.9	74.9
22:00 to 23:00 Hr	41.6	75.6	57.7	43.6	101.6	69.3
23:00 to 24:00 Hr	42.4	74.8	54.1	40.5	97.2	62.9

Location: Siva Tower (C&I)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	63.9	72.1	67.8	62.1	87.7	71.6
19:00 to 20:00 Hr	54.5	81.2	63.3	57.7	95.9	75.1
20:00 to 21:00 Hr	51.8	85.4	64.9	61.4	89.9	64.4
21:00 to 22:00 Hr	50.1	106.4	62.5	59.8	89.6	67.5
22:00 to 23:00 Hr	49.5	93.4	56.0	45.6	84.7	54.3
23:00 to 24:00 Hr	47.4	81.2	54.4	42.7	79.8	51.2



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

SALEM

Name of the location: Sri Saradha Balamandhir Boys Higher Secondary School (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	5.0	9.2	32.0	15.0	32
25.10.2024	6.1	8.6	31.0	15.0	31
26.10.2024	6.7	9.8	35.0	16.0	35
27.10.2024	8.2	9.8	39.0	18.0	39
28.10.2024	10.0	13.0	45.0	20.0	45
29.10.2024	13.0	18.0	51.0	21.0	51
30.10.2024	21.0	29.0	98.0	30.0	98
31.10.2024	23.0	34.0	174.0	55.0	149
01.11.2024	12.0	25.6	76.0	36.0	76
02.11.2024	12.0	20.0	74.0	21.0	74
03.11.2024	10.0	17.0	60.0	19.0	60
04.11.2024	7.0	12.0	42.0	17.0	42
05.11.2024	6.0	11.0	36.0	15.0	36
06.11.2024	7.0	12.0	39.0	15.0	39
07.11.2024	8.0	13.0	41.0	16.0	41
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

SALEM

Name of the location: Siva Tower (C&I)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	8.8	17.4	45.0	18.0	45
25.10.2024	7.2	18.2	47.0	17.0	47
26.10.2024	6.7	19.5	47.0	17.0	47
27.10.2024	8.4	20.0	49.0	18.0	49
28.10.2024	12.0	22.0	51.0	20.0	51
29.10.2024	13.6	30.8	58.0	22.0	58
30.10.2024	23.0	32.0	81.0	27.0	81
31.10.2024	24.0	33.0	138.0	39.0	125
01.11.2024	13.2	29.0	77.0	39.0	77
02.11.2024	11.8	24.9	65.0	24.0	65
03.11.2024	11.4	22.8	51.0	22.0	51
04.11.2024	11.0	19.0	46.0	19.0	46
05.11.2024	10.0	18.0	43.0	18.0	43
06.11.2024	11.0	21.0	47.0	19.0	47
07.11.2024	10.0	17.0	45.0	18.0	45
* All Values (24 hourly Average) are in µg/m ³					



Deepavali Monitoring 2024

Tirunelveli

City:

- Latitude & Longitude : 8.71° N, 77.76° E
- Climate / Meteorology
Pre Deepavali : Partially Cloudy
Deepavali : Clear sky
- Population : 30,77,233 (2011 Census)
- Major Land use : Residential and Industrial

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : **Noise level survey**
(Residential, Commercial and Silence) Pettai (I)
Tirunelveli Town (R)
Ambient Air quality Survey
Pettai (I)
Tirunelveli Town (R)
- Activities around the monitoring location /
Sources of Noise Pollution : In both the locations, crackers were
Burst and Vehicle movement on
Deepavali day.



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

TIRUNELVELI

Location: Pettai (I)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	60.4	81.1	65.8	47.2	97.9	88.2
19:00 to 20:00 Hr	59.3	76.8	62.5	42.6	98.4	89.2
20:00 to 21:00 Hr	59.2	71.4	63.6	48.1	93.2	84.7
21:00 to 22:00 Hr	58.3	74.3	61.1	51.2	89.8	73.4
22:00 to 23:00 Hr	50.1	71.2	60.4	44.0	87.4	69.7
23:00 to 24:00 Hr	36.7	68.4	56.8	43.6	86.5	67.1

Location: Tirunelveli Town (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	43.6	74.6	65.9	53.6	86.3	80.3
19:00 to 20:00 Hr	46.9	76.3	65.7	52.5	92.1	85.8
20:00 to 21:00 Hr	50.1	78.4	62.3	50.0	91.1	76.8
21:00 to 22:00 Hr	47.5	73.9	59.7	46.1	69.7	64.5
22:00 to 23:00 Hr	44.8	70.3	56.5	45.7	69.0	63.4
23:00 to 24:00 Hr	40.7	68.1	54.7	41.5	52.8	45.9



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

TIRUNELVELI

Name of the location: Pettai (I)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	12.8	18.6	54.0	26.0	54
25.10.2024	13.0	18.6	64.0	28.0	64
26.10.2024	13.8	19.6	70.0	30.0	70
27.10.2024	14.8	20.6	74.0	31.0	74
28.10.2024	15.7	21.0	79.0	33.0	79
29.10.2024	16.5	21.6	88.0	35.0	88
30.10.2024	17.0	22.0	99.0	37.0	99
31.10.2024	17.6	22.6	112.0	39.0	108
01.11.2024	16.6	21.9	100.0	36.0	100
02.11.2024	16.0	21.4	92.0	34.0	92
03.11.2024	14.7	20.6	86.0	32.0	86
04.11.2024	13.6	19.5	76.0	29.0	76
05.11.2024	13.4	19.5	65.0	26.0	65
06.11.2024	13.0	18.8	60.0	24.0	60
07.11.2024	12.8	18.6	57.0	24.0	57
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

TIRUNELVELI

Name of the location: Town (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	11.1	17.6	48.0	22.0	48
25.10.2024	12.0	17.9	56.0	24.0	56
26.10.2024	12.8	18.8	59.0	25.0	59
27.10.2024	13.8	19.5	66.0	27.0	66
28.10.2024	13.9	19.5	71.0	29.0	71
29.10.2024	14.6	20.4	79.0	31.0	79
30.10.2024	15.7	21.0	103.0	36.0	103
31.10.2024	16.3	21.8	107.0	37.0	105
01.11.2024	14.7	20.9	93.0	33.0	93
02.11.2024	14.1	19.9	85.0	30.0	85
03.11.2024	13.4	19.5	78.0	28.0	78
04.11.2024	12.2	18.5	67.0	25.0	67
05.11.2024	12.2	17.7	58.0	24.0	58
06.11.2024	11.8	17.4	50.0	22.0	50
07.11.2024	11.5	17.5	52.0	21.0	52
* All Values (24 hourly Average) are in µg/m ³					



Deepavali Monitoring 2023

Nagercoil

City:

- Latitude & Longitude : 8.18° N, 77.41° E
- Climate / Meteorology
 - Pre Deepavali : Cloudy
 - Deepavali : Partially Cloudy
- Population : 2,24,849 (2011 Census)
- Major Land use : Residential & Commercial

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : Noise level survey
 - (Residential, Commercial and Silence) Water Tank Road (M)
 - Scott Christian College (R)
 - Ambient Air quality Survey
 - Water Tank Road (M)
 - Scott Christian College (R)
- Activities around the monitoring location / Sources of Noise Pollution : Vehicle movement and bursting of crackers were observed on Deepavali day.



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

TIRUNELVELI - Nagercoil

Location: Water Tank (M)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	46.7	62.3	55.4	49.2	82.4	61.2
19:00 to 20:00 Hr	44.5	58.1	53.6	51.2	85.6	62.4
20:00 to 21:00 Hr	47.8	56.4	52.4	47.4	84.5	59.3
21:00 to 22:00 Hr	48.2	55.4	52.6	46.3	83.5	56.4
22:00 to 23:00 Hr	46.6	55.7	51.7	43.6	74.2	52.5
23:00 to 24:00 Hr	44.8	53.4	51.3	41.3	70.4	50.2

Location: Scott Christian College (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	49.8	59.7	53.6	43.4	82.8	59.2
19:00 to 20:00 Hr	45.6	56.4	50.1	45.1	89.2	60.2
20:00 to 21:00 Hr	44.3	52.3	48.3	43.2	87.6	57.9
21:00 to 22:00 Hr	43.9	50.7	48.1	42.9	84.0	57.1
22:00 to 23:00 Hr	40.2	49.8	45.8	39.5	82.8	51.1
23:00 to 24:00 Hr	39.7	49.2	45.0	38.7	74.4	49.4



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

NAGERCOIL

Name of the location: Water Tank Road (M)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	12.2	18.1	50.0	24.0	50
25.10.2024	12.5	18.1	60.0	26.0	60
26.10.2024	13.1	18.5	64.0	27.0	64
27.10.2024	14.4	20.3	71.0	29.0	71
28.10.2024	14.7	20.3	76.0	31.0	76
29.10.2024	15.4	21.1	83.0	33.0	83
30.10.2024	16.3	21.5	92.0	34.0	92
31.10.2024	17.1	22.2	106.0	38.0	104
01.11.2024	16.0	21.4	97.0	35.0	97
02.11.2024	15.4	21.2	89.0	32.0	89
03.11.2024	14.1	20.1	80.0	30.0	80
04.11.2024	12.8	19.2	71.0	27.0	71
05.11.2024	12.8	18.7	53.0	23.0	53
06.11.2024	12.4	18.2	50.0	23.0	50
07.11.2024	10.9	16.7	51.0	23.0	54
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

NAGERCOIL

Name of the location: Scott Christian College (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	10.9	16.9	44.0	20.0	44
25.10.2024	11.3	17.1	50.0	22.0	50
26.10.2024	12.2	18.1	55.0	24.0	55
27.10.2024	12.5	18.2	60.0	25.0	60
28.10.2024	13.4	19.0	65.0	27.0	65
29.10.2024	14.1	19.9	72.0	29.0	72
30.10.2024	15.0	20.7	88.0	31.0	88
31.10.2024	15.7	21.3	98.0	33.0	98
01.11.2024	14.1	20.0	88.0	31.0	88
02.11.2024	13.4	19.2	80.0	29.0	80
03.11.2024	12.8	18.7	75.0	27.0	75
04.11.2024	11.5	17.8	59.0	24.0	59
05.11.2024	11.5	17.2	48.0	21.0	48
06.11.2024	11.2	16.7	46.0	20.0	46
07.11.2024	10.2	16.2	49.0	19.0	49
* All Values (24 hourly Average) are in µg/m ³					



Deepavali Monitoring 2024

Trichy

City:

- Latitude & Longitude : 10.82° N, 78.68° E
- Climate / Meteorology
 - Pre Deepavali : Rainy
 - Deepavali : Clear Sky
- Population : 27,22,290 (2011 Census)
- Major Land use : Mixed use

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : Noise level survey
(Residential, Commercial and Silence) Thillai Nagar (R)

Ambient Air quality Survey

Gandhi Park (C)

Bishop Heber College (R)

- Activities around the monitoring location / Sources of Noise Pollution : 1. Residential area - vehicles movement observed
2. Crackers were burnt near the monitoring stations during Deepavali festival



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

TRICHY

Location: Thillai Nagar (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	47.8	100.5	69.6	46.5	110.3	80.2
19:00 to 20:00 Hr	47.4	89.8	65.1	65.5	114.6	94.3
20:00 to 21:00 Hr	45.2	66.0	58.4	64.5	113.0	92.5
21:00 to 22:00 Hr	47.6	68.2	55.1	59.2	91.8	76.5
22:00 to 23:00 Hr	46.6	64.3	53.9	49.8	79.8	63.3
23:00 to 24:00 Hr	47.1	65.7	51.2	41.3	68.7	59.5



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

TRICHY

Name of the location: Gandhi Park (C)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	13.7	16.7	31.0	10.0	31
25.10.2024	13.1	17.3	37.0	14.0	37
26.10.2024	12.4	16.7	35.0	13.0	35
27.10.2024	13.5	17.9	39.0	15.0	39
28.10.2024	15.4	19.0	48.0	20.0	48
29.10.2024	14.5	17.4	52.0	21.0	52
30.10.2024	17.5	21.0	58.0	23.0	58
31.10.2024	19.0	27.0	120.0	62.0	113
01.11.2024	17.0	24.0	88.0	37.0	88
02.11.2024	14.4	20.2	51.0	21.0	51
03.11.2024	13.1	19.2	45.0	18.0	45
04.11.2024	12.7	18.1	43.0	16.0	43
05.11.2024	12.2	16.8	41.0	15.0	41
06.11.2024	13.2	18.5	44.0	17.0	44
07.11.2024	12.8	17.6	40.0	15.0	40
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

TRICHY

Name of the location: Bishop Heber College (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	9.1	12.4	30.0	8.0	30
25.10.2024	9.9	14.2	34.0	11.0	34
26.10.2024	10.7	13.3	37.0	14.0	37
27.10.2024	11.8	14.9	35.0	13.0	35
28.10.2024	15.1	18.0	43.0	17.0	43
29.10.2024	14.1	18.1	49.0	21.0	49
30.10.2024	15.2	20.8	55.0	23.0	55
31.10.2024	17.7	24.2	112.0	58.0	108
01.11.2024	16.0	22.0	82.0	24.0	82
02.11.2024	14.8	19.4	67.0	25.0	67
03.11.2024	12.0	18.5	52.0	22.0	52
04.11.2024	11.6	17.6	41.0	15.0	41
05.11.2024	11.2	16.6	39.0	14.0	39
06.11.2024	12.2	18.0	42.0	16.0	42
07.11.2024	10.5	16.2	38.0	13.0	38
* All Values (24 hourly Average) are in µg/m ³					



Deepavali Monitoring 2024

Thanjavur

City:

- Latitude & Longitude : 10.76° N, 79.13° E
- Climate / Meteorology
 - Pre Deepavali : Rainy
 - Deepavali : Clear sky
- Population : 24,05,890 (2011 Census)
- Major Land use : Mixed use

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : Noise level survey
(Residential, Commercial and Silence) Arulanandhammal Nagar (R)

Ambient Air quality Survey
Teachers Colony (C)
Arokiya Nagar (R)
- Activities around the monitoring location / Sources of Noise Pollution : 1. Residential area - vehicles movement observed
2. Crackers were burnt near the monitoring stations during Deepavali festival



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

THANJAVUR

Location: Arulanandhammal Nagar (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	37.1	89.8	60.8	46.3	111.8	83.3
19:00 to 20:00 Hr	37.8	93.6	59.6	49.8	109.3	79.3
20:00 to 21:00 Hr	37.4	88.0	58.6	44.8	110.4	78.1
21:00 to 22:00 Hr	40.0	80.1	57.5	41.4	98.8	75.6
22:00 to 23:00 Hr	40.3	84.6	57.6	38.9	92.6	62.5
23:00 to 24:00 Hr	35.9	85.8	58.1	37.3	93.3	56.2



Tamil Nadu Pollution Control Board
Ambient Air Quality data during Deepavali festival from 24.10.2024 to
07.11.2024

Annexure - V

THANJAVUR

Name of the location: Teachers Colony (C)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	11.6	14.1	45.0	18.0	45
25.10.2024	12.6	16.6	42.0	14.0	42
26.10.2024	11.6	15.1	37.0	13.0	37
27.10.2024	9.7	14.0	36.0	12.0	36
28.10.2024	14.0	18.0	45.0	19.0	45
29.10.2024	13.0	17.0	48.0	20.0	48
30.10.2024	15.0	20.0	54.0	22.0	54
31.10.2024	17.7	27.5	124.0	60.0	116
01.11.2024	16.0	23.0	92.0	41.0	92
02.11.2024	13.7	19.0	46.0	20.0	46
03.11.2024	12.0	17.0	40.0	15.0	40
04.11.2024	11.0	16.0	38.0	13.0	38
05.11.2024	13.6	18.4	41.0	16.0	41
06.11.2024	14.3	19.0	44.0	17.0	44
07.11.2024	12.9	17.4	42.0	16.0	42
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

THANJAVUR

Name of the location: Arokiya Nagar (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	10.4	11.2	30.0	12.0	30
25.10.2024	13.9	17.6	38.0	13.0	38
26.10.2024	12.4	15.9	34.0	10.0	34
27.10.2024	11.4	13.5	30.0	11.0	30
28.10.2024	10.6	13.4	36.0	13.0	36
29.10.2024	12.6	17.1	41.0	16.0	41
30.10.2024	14.0	18.9	46.0	18.0	46
31.10.2024	18.3	26.2	108.0	50.0	105
01.11.2024	16.2	21.2	64.0	25.0	64
02.11.2024	12.4	17.1	39.0	15.0	39
03.11.2024	10.6	15.6	36.0	14.0	36
04.11.2024	11.1	16.4	34.0	11.0	34
05.11.2024	10.7	15.4	33.0	12.0	33
06.11.2024	11.6	17.1	35.0	14.0	35
07.11.2024	10.3	16.0	32.0	12.0	32
* All Values (24 hourly Average) are in µg/m ³					



Deepavali Monitoring 2024

Tiruppur

City:

- Latitude & Longitude : 11.10° N, 77.34° E
- Climate / Meteorology
Pre Deepavali : Cloudy/ Rainy
Deepavali : Cloudy/ Rainy
- Population : 24,79,052 (2011 Census)
- Major Land use : Mixed

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : Noise level survey
(Residential, Commercial and Silence) Rayapuram (R)
Kumaran Complex (C)
Ambient Air quality Survey
Rayapuram (R)
Kumaran Complex (C)

Activities around the monitoring location /

Sources of Noise Pollution

: Crackers Bursting, Vehicle movement , Music playing and People cheering & shouting were observed.



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

TIRUPPUR

Location: Rayapuram (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	49.9	85.3	59.0	51.7	110.7	74.5
19:00 to 20:00 Hr	49.2	90.7	58.5	52.1	119.5	85.3
20:00 to 21:00 Hr	49.1	90.1	59.0	52.2	103.0	76.6
21:00 to 22:00 Hr	50.0	89.5	60.2	52.1	96.4	63.4
22:00 to 23:00 Hr	53.3	89.5	60.6	52.7	83.5	60.2
23:00 to 24:00 Hr	48.7	83.5	56.4	52.9	80.4	58.1

Location: Kumaran Complex (C)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	43.0	92.6	59.6	43.3	78.5	54.4
19:00 to 20:00 Hr	47.0	79.4	58.9	46.1	77.3	55.0
20:00 to 21:00 Hr	46.1	80.2	57.6	44.0	94.3	64.8
21:00 to 22:00 Hr	47.4	83.8	57.9	41.7	90.6	63.2
22:00 to 23:00 Hr	37.2	79.3	54.7	40.7	84.8	56.4
23:00 to 24:00 Hr	42.0	81.1	51.5	38.8	82.4	51.9



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

TIRUPPUR

Name of the location: Rayapuram (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	5.1	14.0	33.0	16.0	33
25.10.2024	6.5	14.8	36.0	18.0	36
26.10.2024	8.4	15.2	42.0	24.0	42
27.10.2024	7.6	16.3	38.0	21.0	38
28.10.2024	9.5	18.2	44.0	27.0	45
29.10.2024	12.2	20.5	56.0	29.0	56
30.10.2024	16.2	27.1	96.0	43.0	96
31.10.2024	18.5	30.1	149.0	47.0	133
01.11.2024	14.6	26.4	74.0	32.0	74
02.11.2024	12.6	20.7	70.0	29.0	70
03.11.2024	9.5	18.2	56.0	27.0	56
04.11.2024	6.5	14.6	46.0	20.0	46
05.11.2024	9.7	18.6	44.0	26.0	44
06.11.2024	11.4	21.2	54.0	21.0	54
07.11.2024	14.3	22.5	58.0	23.0	58
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

TIRUPPUR

Name of the location: Kumaran Complex (C)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	10.9	18.1	46.0	25.0	46
25.10.2024	8.5	17.3	49.0	28.0	49
26.10.2024	9.7	18.6	46.0	31.0	52
27.10.2024	11.8	20.5	54.0	35.0	58
28.10.2024	12.2	22.3	52.0	38.0	63
29.10.2024	14.6	22.5	67.0	34.0	67
30.10.2024	14.3	22.4	92.0	40.0	92
31.10.2024	16.7	28.4	82.0	38.0	82 #
01.11.2024	12.2	21.8	63.0	28.0	63
02.11.2024	10.4	18.9	61.0	27.0	61
03.11.2024	7.6	16.3	53.0	26.0	53
04.11.2024	7.1	15.8	48.0	22.0	48
05.11.2024	11.8	20.7	58.0	32.0	58
06.11.2024	13.5	25.2	60.0	28.0	60
07.11.2024	15.4	26.4	64.0	34.0	64
* All Values (24 hourly Average) are in µg/m ³					

The AQI level on Deepavali day remained as on regular days due to less firecrackers bursting, as it was a holiday in that commercial area.



Deepavali Monitoring 2024

Thoothukudi

City:

- Latitude & Longitude : 8.47° N, 78.11° E
- Climate / Meteorology
 - Pre Deepavali : Drizzling and Cloudy
 - Deepavali : Drizzling and Cloudy
- Population : 17,50,176 (2011 Census)
- Major Land use : Residential and Commercial

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : **Noise Level Survey**
Rajiv Nagar (R)
Ambient Air quality Survey
Rajiv Nagar (R)
Celseeni Colony (R)
- Activities around the monitoring location / Sources of Noise Pollution : **First location** is a Residential area with movement of vehicles and Religious activities observed.
Second location is also a residential area with movements of vehicles observed around the area.



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

THOOTHUKUDI

Location: Celseeni Colony (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	43.2	85.6	70.4	44.1	107.3	78.5
19:00 to 20:00 Hr	42.8	83.5	64.8	51.5	112.0	82.2
20:00 to 21:00 Hr	43.1	84.6	62.5	48.9	108.2	77.4
21:00 to 22:00 Hr	47.5	78.7	59.4	45.6	106.1	73.1
22:00 to 23:00 Hr	45.4	68.3	57.1	42.4	98.2	65.2
23:00 to 24:00 Hr	45.2	65.1	52.2	37.1	87.6	55.4

Location: Rajiv Nagar (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	42.7	83.7	68.2	42.2	106.2	77.3
19:00 to 20:00 Hr	43.0	86.4	60.1	47.8	110.1	80.6
20:00 to 21:00 Hr	43.9	89.5	63.3	44.7	102.6	74.9
21:00 to 22:00 Hr	52.4	83.4	60.2	43.3	108.0	71.2
22:00 to 23:00 Hr	53.5	67.2	56.4	42.0	101.0	67.8
23:00 to 24:00 Hr	45.0	62.2	53.3	38.0	90.5	58.6



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

THOOTHUKUDI

Name of the location: Celseeni Colony (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	9.7	13.6	53.2	15.4	53
25.10.2024	8.9	12.1	28.2	10.2	28
26.10.2024	8.5	11.9	41.3	11.9	41
27.10.2024	10.7	13.4	39.8	12.4	40
28.10.2024	13.5	17.2	47.8	14.9	48
29.10.2024	15.1	19.3	56.1	17.5	56
30.10.2024	17.5	22.0	85.2	43.4	85
31.10.2024	19.4	25.8	197.3	74.5	165
01.11.2024	13.5	17.5	66.5	32.3	67
02.11.2024	10.5	15.9	38.9	17.6	39
03.11.2024	9.1	13.4	28.2	11.6	28
04.11.2024	10.7	14.8	36.1	12.8	36
05.11.2024	11.5	16.7	46.5	16.2	47
06.11.2024	12.4	18.2	61.6	16.9	62
07.11.2024	10.0	15.7	39.3	10.5	39
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

THOOTHUKUDI

Name of the location: Rajiv Nagar (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	6.8	12.1	46.6	10.6	47
25.10.2024	6.2	11.2	30.6	7.5	31
26.10.2024	7.3	13.0	29.8	9.6	30
27.10.2024	7.8	12.6	26.9	6.7	27
28.10.2024	7.7	13.3	35.9	9.5	36
29.10.2024	9.8	14.6	48.9	11.3	49
30.10.2024	14.9	18.9	79.7	38.1	80
31.10.2024	17.8	24.3	184.9	76.9	157
01.11.2024	12.8	16.9	85.8	29.8	86
02.11.2024	9.2	13.9	44.8	18.5	45
03.11.2024	7.1	12.8	32.1	12.6	32
04.11.2024	9.3	14.2	40.9	10.4	41
05.11.2024	11.0	15.8	45.8	12.5	46
06.11.2024	9.6	14.2	56.9	13.4	57
07.11.2024	7.7	12.8	45.0	11.7	45
* All Values (24 hourly Average) are in µg/m ³					



Deepavali Monitoring 2024

Vellore

City:

- Latitude & Longitude : 12.93° N, 79.14° E
- Climate / Meteorology
 - Pre-Deepavali : Partially Cloudy
 - Deepavali Day : Drizzling with Cloudy
- Population : 39,36,331 (2011 Census)
- Major Land use : Mixed

Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : Noise level survey
(Residential, Commercial and Silence) Gandhi Nagar (M)
Sathuvachari (R)
Ambient Air quality Survey
Gandhi Nagar (M)
Sathuvachari (R)
- Activities around the monitoring location / Sources of Noise Pollution : Bursting of Crackers and Vehicle Movement



Tamil Nadu Pollution Control Board
Noise level during Deepavali festival - 2024

VELLORE

Location: Gandhi Nagar (M)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	47.3	63.9	55.4	49.4	86.0	63.5
19:00 to 20:00 Hr	46.6	81.0	59.8	52.0	95.9	74.4
20:00 to 21:00 Hr	55.2	75.8	61.7	51.4	100.5	76.2
21:00 to 22:00 Hr	55.0	69.6	63.9	52.8	97.2	74.6
22:00 to 23:00 Hr	46.8	67.7	56.1	43.7	61.7	54.7
23:00 to 24:00 Hr	43.4	64.1	52.5	40.7	77.8	49.8

Location: Sathuvachari (R)	Pre - Deepavali Day (24.10.2024)			Deepavali Day (31.10.2024)		
Time duration	L _{min}	L _{max}	L _{eq} dB(A)	L _{min}	L _{max}	L _{eq} dB(A)
18:00 to 19:00 Hr	45.6	73.3	55.8	43.8	104.0	81.6
19:00 to 20:00 Hr	43.6	72.5	58.9	46.0	112.4	86.1
20:00 to 21:00 Hr	52.6	77.0	61.7	40.3	99.3	78.4
21:00 to 22:00 Hr	44.6	80.8	63.2	40.3	93.3	69.0
22:00 to 23:00 Hr	43.9	73.5	57.6	39.6	73.5	55.3
23:00 to 24:00 Hr	43.4	61.6	51.8	39.2	66.4	49.4



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

VELLORE

Name of the location: Gandhi Nagar (M)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	9.2	12.0	36.0	14.0	36
25.10.2024	10.1	12.9	38.0	15.0	38
26.10.2024	10.2	14.0	42.0	17.0	42
27.10.2024	10.5	14.2	46.0	18.0	46
28.10.2024	10.9	15.3	61.0	22.0	61
29.10.2024	14.8	19.2	72.0	29.0	72
30.10.2024	13.9	19.7	79.0	33.0	79
31.10.2024	15.2	22.0	136.0	59.0	124
01.11.2024	12.7	20.8	95.0	54.0	95
02.11.2024	10.3	16.7	46.0	14.0	46
03.11.2024	10.2	13.8	43.0	12.0	43
04.11.2024	9.5	12.8	41.0	13.0	41
05.11.2024	8.6	11.3	45.0	14.0	45
06.11.2024	9.2	11.7	49.0	16.0	49
07.11.2024	8.5	11.2	45.0	18.0	45
* All Values (24 hourly Average) are in µg/m ³					



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 24.10.2024 to 07.11.2024

Annexure - V

VELLORE

Name of the location: Sathuvachari (R)					
Date	Regulatory Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	AQI
24.10.2024	8.4	11.3	34.0	13.0	34
25.10.2024	9.4	12.5	36.0	14.0	36
26.10.2024	9.5	13.1	40.0	16.0	40
27.10.2024	9.8	13.5	43.0	17.0	43
28.10.2024	10.4	16.5	64.0	24.0	64
29.10.2024	13.4	17.8	70.0	27.0	70
30.10.2024	13.2	18.3	76.0	31.0	76
31.10.2024	14.0	22.8	164.0	65.0	143
01.11.2024	13.8	21.9	110.0	59.0	107
02.11.2024	11.4	17.5	53.0	17.0	53
03.11.2024	10.7	14.1	48.0	15.0	48
04.11.2024	10.1	13.5	45.0	16.0	45
05.11.2024	9.8	11.8	48.0	18.0	48
06.11.2024	10.0	12.5	55.0	21.0	55
07.11.2024	9.2	12.0	52.0	20.0	52
* All Values (24 hourly Average) are in µg/m ³					

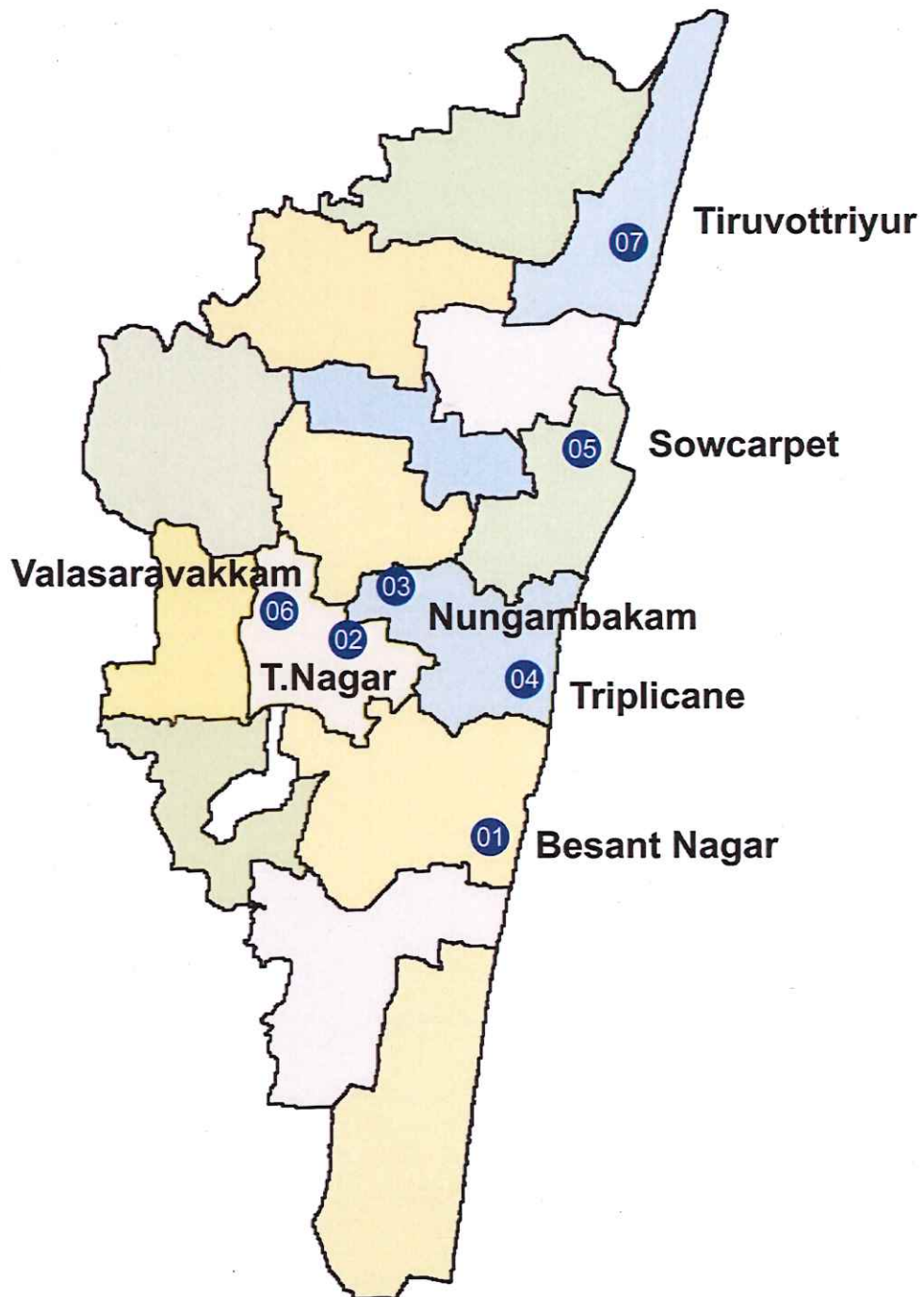


TAMIL NADU POLLUTION CONTROL BOARD
Ambient Air Quality and Noise Level Survey - Deepavali -2024
SAMPLING LOCATIONS

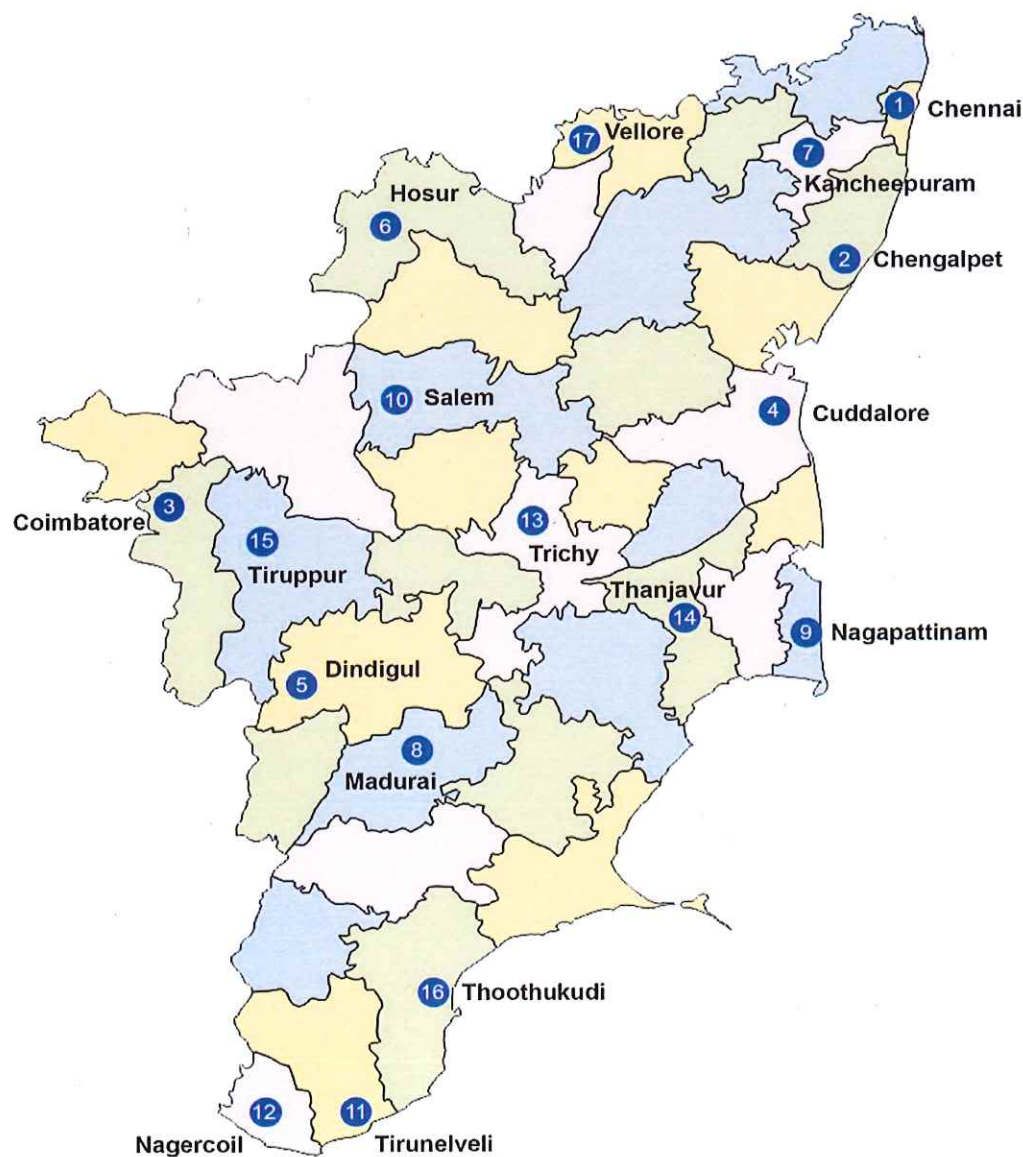
Name of the City	No. of Stations	AAQ Stations	Name of the City	No. of Stations	NLS Stations
1. Chennai city	1	Besant Nagar (R)	1. Chennai city	1	Besant Nagar (R)
	2	T.Nagar (C)		2	T.Nagar (C)
	3	Nungambakkam (R)		3	Nungambakkam (R)
	4	Triplicane (R)		4	Triplicane (R)
	5	Sowcarpet (C)		5	Sowcarpet (C)
	6	Valasaravakkam (R)		6	Valasaravakkam (R)
	7	Tiruvottiyur (C)		7	Tiruvottiyur (C)
2. Chengalpet	8	Maramalainagar (R)	2. Chengalpet	8	Maramalainagar (R)
	9	Pallavaram (C)		9	Pallavaram (C)
3. Coimbatore	10	Kavundampalayam (R)	3. Coimbatore	10	Kavundampalayam (R)
	11	District Collectorate (M)		11	District Collectorate (M)
4. Cuddalore	12	Imperial Road (C)	4. Cuddalore	12	Imperial Road (C)
	13	Collectorate Complex (R)		13	Collectorate Complex (R)
5. Dindigul	14	Collector office complex (R)	5. Dindigul	14	Collector office complex (R)
	15	Urban Health Centre (C)		15	Urban Health Centre (C)
6. Hosur	16	Municipal Corporation Office (R)	6. Hosur	16	Municipal Corporation Office (R)
	17	Kamaraj Nagar High School (C)		17	Kamaraj Nagar High School (C)
7. Kancheepuram	18	Little Kancheepuram (R)	7. Kancheepuram	18	Little Kancheepuram (R)
	19	IOB - Bus Stand (C)			
8. Madurai	20	Thiru nagar (R)	8. Madurai	19	Thiru nagar (R)
	21	Birla Vishram (C)		20	Birla Vishram (C)
9. Nagapattinam	22	MRP Nagar (R)	9. Nagapattinam	21	Chekkadi Street (R)
	23	Chekkadi Street (R)			
10. Salem	24	Sri Saradha Balamandhir Boys Matric Hr Sec. School (R)	10. Salem	22	Sri Saradha Balamandhir Boys Matric Hr Sec. School (R)
	25	Siva Tower (C&I)		23	Siva Tower (C&I)
11. Tirunelveli	26	Pettai (I)	11. Tirunelveli	24	Pettai (I)
	27	Tirunelvel Town (R)		25	Tirunelvel Town (R)
12. Nagercoil	28	Water Tank Road (M)	12. Nagercoil	26	Water Tank Road (M)
	29	Scott Christian Colege (R)		27	Scott Christian Colege
13. Trichy	30	Gandhi Park (C)	13. Trichy	28	Thillai Nagar(R.)
	31	Bishop Heber College (R)			
14. Thanjavur	32	Teachers colony (C)	14. Thanjavur	29	Arulanandhammal Nagar (R.)
	33	Arokkiya Nagar (R)			
15. Tiruppur	34	Rayapuram (R)	15. Tiruppur	30	Rayapuram (R)
	35	Kumaran Complex (C)		31	Kumaran Complex (C)
16. Thoothukudi	36	Rajiv Nagar (R)	16. Thoothukudi	32	Rajiv Nagar (R)
	37	Celseeni Colony (R)		33	Celseeni Colony (R)
17. Vellore	38	Sathuvachari (R)	17. Vellore	34	Sathuvachari (R)
	39	Gandhi Nagar (M)		35	Gandhi Nagar (M)

R- Residential, S- Sensitive, C- Commercial, I - Industrial

Monitoring Locations in Chennai - Map



Monitoring Locations distributed in 17 cities across the state of Tamil Nadu - Map



Name of the City	No. of Stations	AAQ Stations
1. Chennai city	1	Besant Nagar
	2	T.Nagar
	3	Nungambakkam
	4	Triplicane
	5	Sowcarpet
	6	Valasaravakkam
	7	Tiruvottiyur
2. Chengalpet	8	Maramalainagar
	9	Pallavaram
3. Coimbatore	10	Kavundampalayam
	11	District Collectorate
4. Cuddalore	12	Imperial Road
	13	Collectorate Complex
5. Dindigul	14	Collector office complex
	15	Urban Health Centre
6. Hosur	16	Municipal Corporation Office
	17	Kamaraj Nagar High School
7. Kancheepuram	18	Little Kancheepuram
	19	IOB - Bus Stand
8. Madurai	20	Thiru nagar
	21	Birla Vishram
9. Nagapattinam	22	MRP Nagar
	23	Chekkadi Street
10. Salem	24	Sri Saradha Balamandhir Boys Matric Hr Sec. School
	25	Siva Tower
	26	Pettai
11. Tirunelveli	27	Tirunelvel Town
	28	Water Tank Road
12. Nagercoil	29	Scott Christian Colege
	30	Gandhi Park
13. Trichy	31	Bishop Heber College
	32	Teachers colony
14. Thanjavur	33	Arokkiya Nagar
	34	Kumaran Complex
15. Tiruppur	35	Rayapuram
	36	Celseeni Colony
16. Thoothukudi	37	Rajiv Nagar
	38	Sathuvachari
17. Vellore	39	Gandhi Nagar

Inference of Deepavali Report – 2024 in the State of Tamil Nadu

In line with the Hon'ble Supreme Court's directions, issued to all the states and all the Union Territories allowing a two-hour window for bursting crackers on Deepavali day, Tamil Nadu government fixed two slots - between 6 a.m. and 7 a.m. and between 7 p.m. and 8 p.m. on Deepavali day (31.10.2024) for bursting crackers.

This year, Deepavali festival was celebrated on 31st of October 2024 (Thursday) in Tamil Nadu, and hence as per the CPCB directions, ambient air quality monitoring was carried out for consecutive 15 days commencing from 24.10.2024 to 07.11.2024 and Noise Level (NL) Survey on Pre-Deepavali day (24.10.2024, Thursday) and Deepavali day (31.10.2024, Thursday).

The inferences drawn from the monitoring of ambient noise (table-I) and air quality monitoring (table-II) during Deepavali 2024 are as follows:

A. Noise Level Monitoring

To control noise pollution arising out of bursting of firecrackers, as per the Hon'ble Supreme court orders, use of fireworks or firecrackers were permitted only during fixed timings and restricted in silence zones.

Table – I

Sl. No.	City	NLS	
		Pre - Deepavali Day (24.10.2024)	Deepavali Day (31.10.2024)
		Leq dB(A)	Leq dB(A)
1	Chennai	58.0	70.6
2	Chengalpet	58.4	70.5
3	Coimbatore	55.8	66.4
4	Cuddalore	64.9	70.5
5	Dindigul	60.3	82.9
6	Hosur	61.0	88.0
7	Kancheepuram	51.8	71.3
8	Madurai	69.0	78.9

9	Nagapattinam	54.8	77.1
10	Salem	61.6	74.0
11	Tirunelveli	62.6	82.2
12	Nagercoil	51.3	58.1
13	Trichy	63.6	85.6
14	Thanjavur	58.9	78.3
15	Tiruppur	58.3	69.3
16	Thoothukudi	63.7	76.4
17	Vellore	59.7	76.2

Ambient air quality standards for noise level	
Category of Area/ Zone	Leq dB(A) Night time
Industrial Area	70
Commercial Area	55
Residential Area	45
Sensitive Zone	40

TNPCB carried out noise monitoring in 17 locations during Deepavali, and almost all locations shown increase in decibel levels.

From the above data, it is observed that, the noise level values ranged from 51.3 to 69.0 dB(A) on Pre- Deepavali day and from 58.1 to 88.0 dB(A) on Deepavali day. It is evidently seen that, noise levels recorded at all stations have significantly exceeded the acceptable threshold levels.

During Deepavali day the Noise Level recorded was 27 Decibels higher than the normal day Noise Level recorded in Hosur.

B. Ambient Air Quality Monitoring

Table – II

S. No	Location	Pre Deepavali Days 24.10.2024 to 30.10.2024				Deepavali Day - 31.10.2024						Post Deepavali Days 01.11.2024 to 07.11.2024			
		SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	AQI		SO ₂	NO ₂	PM ₁₀	PM _{2.5}
I	Chennai city														
1	Basant Nagar (R)	10	19	54	20	24	31	210	96	220	P	8	18	57	20
2	T.Nagar (C)	14	26	73	29	17	25	180	91	203	P	12	21	71	26
3	Nungambakkam (R)	11	20	60	24	21	27	198	99	230	P	10	21	72	23
4	Triplicane (R)	11	20	62	21	19	28	192	89	197	M	9	19	62	21
5	Sowcarpet (C)	14	22	68	25	18	24	159	88	193	M	11	21	72	24
6	Valasaravakkam (R)	13	22	72	24	31	43	328	116	287	P	12	24	80	27
7	Tiruvottiyur (C)	10	18	54	20	19	27	136	75	150	M	8	18	58	18
	Major towns														
II	Chengalpet														
8	Maraimalainagar (R)	4	6	78	19	27	31	143	52	129	M	12	16	64	25
9	Pallavaram (C)	6	11	90	28	28	37	155	58	137	M	13	17	66	26
III	Coimbatore														
10	Kavundampalayam (R)	7	16	45	20	23	48	138	73	143	M	9	18	65	36
11	District Collectorate (M)	8	18	51	23	19	39	127	68	127	M	9	19	63	36
IV	Cuddalore														
12	Imperial Road (C)	24	30	52	22	44	51	128	43	119	M	31	39	78	28
13	Collectorate Complex (R)	17	23	35	15	36	46	96	39	96	SF	23	29	60	21
V	Dindigul														
14	Collector office complex (R)	11	15	53	24	23	29	118	65	117	M	13	17	54	26
15	Urban Health Centre (C)	12	16	61	27	25	31	129	86	187	M	14	19	60	29

VI	Hosur														
16	Municipal Corporation Office	11	18	66	23	22	30	172	55	148	M	10	20	95	26
17	Kamaraj Nagar High School	12	20	73	25	21	30	183	42	155	M	9	21	61	21
VII	Kancheepuram														
18	Little kancheepuram (R)	7	15	75	29	16	33	240	75	193	M	7	14	63	24
19	IOB - Kancheepuram Bus Stand (R)	7	16	87	33	15	32	171	60	147	M	6	14	75	26
	Madurai														
20	Thirunagar (R)	9	16	46	9	34	73	87	32	91	SF	8	18	43	9
21	Birla Vishram (M)	9	14	58	9	42	90	127	48	118	M	9	17	54	10
IX	Nagapattinam														
22	MRP Nagar (R)	7	18	94	34	13	45	174	59	149	M	9	24	118	27
23	Chekkadi Street (R)	6	15	57	26	11	36	137	43	125	M	7	15	56	16
X	Salem														
24	Sri Saradha Balamandhir Boys Matric Hr.Sec. School (R)	10	14	47	19	23	34	174	55	149	M	9	16	53	20
25	Siva Tower (C&I)	11	23	54	20	24	33	138	39	125	M	11	22	53	23
XI	Tirunelveli														
26	Pettai (S)	15	20	75	31	18	23	112	39	108	M	14	20	77	29
27	Tirunelveli Town (R)	13	19	69	28	16	22	107	37	105	M	13	19	69	26
XII	Tirunelveli - Nagercoil														
28	Water Tank Road (M)	14	20	71	29	17	22	106	38	104	M	13	19	70	28
29	Scott Christian College (R)	13	19	62	25	16	21	98	33	98	SF	12	18	64	24
XIII	Trichy														
30	Gandhi Park (C)	14	18	43	17	19	27	120	62	113	M	14	19	50	20
31	Bishop Heber College (R)	12	16	40	15	18	24	112	58	108	M	13	18	52	18

XIV	Trichy - Thanjavur														
32	Teachers colony (M)	13	16	44	17	18	28	124	60	116	M	13	19	49	20
33	Arokiya Nagar (R)	12	15	36	13	18	26	108	50	105	M	12	17	39	15
XV	Tiruppur														
34	Kumaran Complex (C)	12	20	58	33	17	28	82	38	82	SF	11	21	58	28
35	Rayapuram (R)	9	18	49	25	19	30	149	47	133	M	11	20	57	25
XVI	Thoothukudi														
36	Celseeni Colony (R)	12	16	50	18	19	26	197	75	165	M	11	16	45	17
37	Rajiv Nagar (R)	9	14	43	13	18	24	185	77	157	M	10	14	50	16
XVII	Vellore														
38	Sathuvachari (I)	11	15	52	20	14	23	164	65	143	M	11	15	59	24
39	Gandhi Nagar (R)	11	15	53	21	15	22	136	59	124	M	10	14	52	20
	NAAQ Standards	80	80	100	60	80	80	100	60	-		80	80	100	60

All values are in $\mu\text{g}/\text{m}^3$ (24 hrs average)

Note: 0-50-Good (G), 51-100-Satisfactory (S), 101-200-Moderate (M), 201-300-Poor (P), 301-400-Very Poor (VP) and 401-500-Severe.

The Air Quality Index (AQI) of the 39 locations revealed that, except for 4 stations that fall under Satisfactory category (AQI – 51 to 100) and 31 stations that fall under moderate category (AQI – 101-200), remaining 4 locations fall under poor category (AQI – 201- 300).

The relatively stable air quality in non-attainment cities during Diwali, compared to the previous year, suggests that efforts to mitigate pollution during the festival have been effective, resulting in minimal deterioration of air quality.