

**Ambient Air and Noise monitoring during**  
**Deepavali - 2023**

**AAQ/ANL Monitoring**

**From 05.11.2023 to 19.11.2023**



**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 2023**

AAQ/ANL/ Monitoring from 05.11.2023 to 19.11.2023  
DEEPAVALI DAY : 12.11.2023

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## Deepavali Monitoring 2023

### Chennai

#### City:

- Latitude & Longitude : 13° 08' N, 80° 19' E
- Climate / Meteorology  
Pre-Deepavali day : Drizzling with partially cloudy weather  
Deepavali Day : Partially Cloudy
- 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 - 2023**

**CHENNAI**

Location: <b>Besant Nagar (R)</b>	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
Time duration						
18:00 to 19:00 Hr	41.6	80.6	56.9	49.5	114.6	80.1
19:00 to 20:00 Hr	42.8	80.4	56.7	51.3	109.0	79.7
20:00 to 21:00 Hr	42.3	81.5	55.5	47.8	103.0	75.6
21:00 to 22:00 Hr	41.0	78.7	55.1	43.8	100.6	71.0
22:00 to 23:00 Hr	41.3	86.5	59.4	40.8	103.4	72.6
23:00 to 24:00 Hr	40.1	69.4	50.3	39.7	105.2	68.1

Location: <b>T. Nagar (C)</b>	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
Time duration						
18:00 to 19:00 Hr	51.8	91.9	71.0	52.2	104.2	60.8
19:00 to 20:00 Hr	52.6	94.2	71.7	56.6	111.6	75.3
20:00 to 21:00 Hr	51.1	93.4	56.2	51.7	107.7	72.0
21:00 to 22:00 Hr	47.7	100.8	58.4	49.1	104.6	60.6
22:00 to 23:00 Hr	45.2	92.9	50.6	48.1	99.4	50.8
23:00 to 24:00 Hr	44.3	78.2	51.0	47.5	84.4	48.3

Location: <b>Nungambakkam (R)</b>	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
Time duration						
18:00 to 19:00 Hr	50.7	104.4	68.5	65.2	114.0	85.6
19:00 to 20:00 Hr	49.6	90.4	64.6	61.1	111.8	85.9
20:00 to 21:00 Hr	48.8	85.6	63.6	60.5	108.2	80.6
21:00 to 22:00 Hr	47.3	96.7	63.6	52.8	107.3	76.2
22:00 to 23:00 Hr	48.1	98.8	66.1	57.9	112.9	75.6
23:00 to 24:00 Hr	46.5	92.2	62.0	57.3	100.5	68.1



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2023**

**CHENNAI**

Location: <b>Triplicane (R)</b>	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	51.5	92.7	64.6	52.9	110.8	82.2
19:00 to 20:00 Hr	51.4	88.9	62.7	58.3	111.4	84.8
20:00 to 21:00 Hr	53.2	90.8	65.7	54.4	108.1	78.8
21:00 to 22:00 Hr	53.0	79.8	60.9	51.8	107.9	76.7
22:00 to 23:00 Hr	51.4	76.6	59.5	49.6	101.4	74.8
23:00 to 24:00 Hr	48.3	75.7	57.4	46.3	78.5	67.6

Location: <b>Sowcarpet (C)</b>	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	55.1	77.2	62.3	57.0	104.0	78.4
19:00 to 20:00 Hr	48.1	77.4	54.9	56.7	105.3	78.9
20:00 to 21:00 Hr	50.0	79.4	56.3	57.0	101.1	75.1
21:00 to 22:00 Hr	53.9	80.5	60.7	55.2	99.7	70.9
22:00 to 23:00 Hr	47.9	75.3	53.8	59.3	87.5	66.1
23:00 to 24:00 Hr	48.3	63.6	54.1	56.3	75.9	61.8

Location: <b>Valasaravakkam (R)</b>	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	49.8	92.3	63.2	52.9	104.0	84.6
19:00 to 20:00 Hr	55.1	73.2	59.2	71.4	102.7	86.3
20:00 to 21:00 Hr	54.4	78.9	65.8	66.8	112.8	92.5
21:00 to 22:00 Hr	50.5	83.5	59.9	58.5	105.3	82.5
22:00 to 23:00 Hr	52.7	76.4	56.2	54.6	103.3	77.2
23:00 to 24:00 Hr	51.3	72.8	54.7	53.1	97.8	79.6



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2023**

**CHENNAI**

Location: Tiruvottiyur (C)	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
18:00 to 19:00 Hr	50.3	91.9	58.6	55.2	109.7	77.8
19:00 to 20:00 Hr	51.7	63.3	55.1	64.2	110.4	67.5
20:00 to 21:00 Hr	47.3	80.1	50.7	59.6	111.3	71.5
21:00 to 22:00 Hr	47.9	76.0	50.0	53.7	111.8	53.0
22:00 to 23:00 Hr	47.3	66.4	50.2	45.6	90.2	45.8
23:00 to 24:00 Hr	41.4	64.2	49.5	45.5	96.2	76.4



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### CHENNAI

Name of the location: <b>Besant Nagar ( R )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	6.0	14.0	38.0	14.0	38
06.11.2023	8.0	12.0	36.0	16.0	36
07.11.2023	9.0	19.0	40.0	15.0	40
08.11.2023	9.0	20.0	47.0	16.0	42
09.11.2023	8.0	14.0	34.0	12.0	34
10.11.2023	12.0	20.0	52.0	19.0	52
11.11.2023	14.0	26.0	134.0	46.0	123
12.11.2023	<b>15.0</b>	<b>28.0</b>	<b>222.0</b>	<b>92.0</b>	<b>207</b>
13.11.2023	12.0	22.0	106.0	42.0	104
14.11.2023	Rain	Rain	Rain	Rain	Rain
15.11.2023	Rain	Rain	Rain	Rain	Rain
16.11.2023	7.0	17.0	39.0	20.0	39
17.11.2023	8.0	20.0	42.0	18.0	42
18.11.2023	9.0	21.0	40.0	19.0	40
19.11.2023	8.0	20.0	37.0	17.0	37

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>





## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### CHENNAI

Name of the location: T. Nagar ( C )					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	12.0	22.0	68.0	32.0	68
06.11.2023	13.0	24.0	59.0	28.0	59
07.11.2023	17.0	26.0	63.0	21.0	63
08.11.2023	15.0	25.0	62.0	22.0	62
09.11.2023	16.0	24.0	64.0	23.0	64
10.11.2023	18.0	28.0	71.0	27.0	71
11.11.2023	17.0	25.0	152.0	57.0	135
<b>12.11.2023</b>	<b>19.0</b>	<b>27.0</b>	<b>211.0</b>	<b>128.0</b>	<b>306</b>
13.11.2023	16.0	30.0	128.0	53.0	119
14.11.2023	Rain	Rain	Rain	Rain	Rain
15.11.2023	Rain	Rain	Rain	Rain	Rain
16.11.2023	13.0	22.0	56.0	24.0	56
17.11.2023	14.0	24.0	59.0	26.0	59
18.11.2023	13.0	25.0	58.0	27.0	58
19.11.2023	12.0	23.0	55.0	25.0	55

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### CHENNAI

Name of the location: <b>Nungambakkam ( R )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	7.0	16.0	34.0	18.0	34
06.11.2023	11.0	21.0	28.0	16.0	28
07.11.2023	9.0	23.0	36.0	14.0	36
08.11.2023	9.0	22.0	46.0	18.0	46
09.11.2023	15.0	22.0	45.0	20.0	45
10.11.2023	13.0	23.0	56.0	22.0	56
11.11.2023	20.0	32.0	118.0	34.0	112
<b>12.11.2023</b>	<b>24.0</b>	<b>38.0</b>	<b>260.0</b>	<b>203.0</b>	<b>364</b>
13.11.2023	14.0	22.0	104.0	39.0	103
14.11.2023	Rain	Rain	Rain	Rain	Rain
15.11.2023	Rain	Rain	Rain	Rain	Rain
16.11.2023	8.0	20.0	49.0	23.0	49
17.11.2023	10.0	21.0	50.0	22.0	50
18.11.2023	11.0	22.0	56.0	24.0	56
19.11.2023	10.0	22.0	52.0	20.0	52

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### CHENNAI

Name of the location: Triplicane ( R )

Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	8.0	17.0	53.0	24.0	53
06.11.2023	12.0	22.0	46.0	20.0	46
07.11.2023	13.0	21.0	42.0	26.0	43
08.11.2023	12.0	19.0	48.0	27.0	48
09.11.2023	18.0	25.0	50.0	26.0	50
10.11.2023	16.0	26.0	65.0	25.0	60
11.11.2023	19.0	30.0	105.0	54.0	103
<b>12.11.2023</b>	<b>22.0</b>	<b>33.0</b>	<b>160.0</b>	<b>106.0</b>	<b>253</b>
13.11.2023	15.0	24.0	92.0	40.0	92
14.11.2023	Rain	Rain	Rain	Rain	Rain
15.11.2023	Rain	Rain	Rain	Rain	Rain
16.11.2023	10.0	18.0	43.0	17.0	43
17.11.2023	12.0	23.0	53.0	20.0	53
18.11.2023	10.0	23.0	51.0	21.0	51
19.11.2023	9.0	17.0	47.0	19.0	47

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### CHENNAI

Name of the location: <b>Sowcarpet ( M )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	12.0	18.0	58.0	24.0	58
06.11.2023	9.0	25.0	54.0	22.0	54
07.11.2023	14.0	22.0	59.0	20.0	59
08.11.2023	14.0	18.0	55.0	19.0	55
09.11.2023	15.0	23.0	57.0	20.0	57
10.11.2023	17.0	29.0	78.0	28.0	65
11.11.2023	16.0	24.0	112.0	40.0	108
<b>12.11.2023</b>	<b>18.0</b>	<b>26.0</b>	<b>191.0</b>	<b>167.0</b>	<b>336</b>
13.11.2023	17.0	23.0	97.0	38.0	97
14.11.2023	Rain	Rain	Rain	Rain	Rain
15.11.2023	Rain	Rain	Rain	Rain	Rain
16.11.2023	9.0	20.0	44.0	21.0	44
17.11.2023	10.0	17.0	49.0	19.0	49
18.11.2023	8.0	19.0	47.0	18.0	47
19.11.2023	7.0	18.0	44.0	16.0	44

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### CHENNAI

Name of the location: <b>Valasaravakkam ( R )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	16.0	19.0	55.0	23.0	55
06.11.2023	13.0	23.0	51.0	21.0	51
07.11.2023	10.0	21.0	56.0	23.0	56
08.11.2023	13.0	23.0	58.0	25.0	58
09.11.2023	17.0	24.0	60.0	27.0	60
10.11.2023	15.0	25.0	63.0	23.0	78
11.11.2023	18.0	28.0	207.0	55.0	171
<b>12.11.2023</b>	<b>17.0</b>	<b>27.0</b>	<b>379.0</b>	<b>204.0</b>	<b>365</b>
13.11.2023	20.0	32.0	172.0	52.0	148
14.11.2023	Rain	Rain	Rain	Rain	Rain
15.11.2023	Rain	Rain	Rain	Rain	Rain
16.11.2023	12.0	21.0	50.0	22.0	50
17.11.2023	11.0	22.0	52.0	23.0	52
18.11.2023	12.0	24.0	54.0	22.0	54
19.11.2023	11.0	24.0	51.0	21.0	51

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### CHENNAI

Name of the location: **Tiruvottiyur (C )**

Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	9.0	17.0	38.0	14.0	38
06.11.2023	8.0	18.0	40.0	19.0	40
07.11.2023	10.0	19.0	42.0	17.0	42
08.11.2023	11.0	21.0	43.0	17.0	43
09.11.2023	10.0	19.0	37.0	16.0	37
10.11.2023	14.0	26.0	134.0	46.0	63
11.11.2023	16.0	29.0	93.0	36.0	93
<b>12.11.2023</b>	<b>18.0</b>	<b>31.0</b>	<b>145.0</b>	<b>98.0</b>	<b>227</b>
13.11.2023	13.0	21.0	81.0	34.0	81
14.11.2023	Rain	Rain	Rain	Rain	Rain
15.11.2023	Rain	Rain	Rain	Rain	Rain
16.11.2023	11.0	19.0	38.0	18.0	38
17.11.2023	9.0	19.0	46.0	17.0	46
18.11.2023	8.0	17.0	44.0	19.0	44
19.11.2023	7.0	21.0	42.0	18.0	42

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Deepavali Monitoring 2023

### Chengalpet

#### City:

- Latitude & Longitude : 12° 42' N, 80° 01' E
- Climate / Meteorology  
Pre-Deepavali : Drizzling and fog  
Deepavali Day : Scattered clouds and fog
- Population : 2,10,306 (2021 Census)
- Major Land use : 61% Residential and 39% Agricultural

#### Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : **Noise level survey**  
MM Nagar (R)  
New Perungalathur (R)  
**Ambient Air quality Survey**  
MM Nagar (R)  
New Perungalathur (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 - 2023**

**CHENGALPET**

Location: <b>Maraimalai Nagar (R)</b>	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	59.4	65.4	61.1	58.7	114.0	94.8
19:00 to 20:00 Hr	58.0	74.9	62.1	63.1	114.4	101.1
20:00 to 21:00 Hr	51.1	74.0	60.7	60.8	109.2	87.9
21:00 to 22:00 Hr	49.1	78.0	59.5	52.8	105.3	80.7
22:00 to 23:00 Hr	46.1	65.8	56.0	47.8	98.3	75.4
23:00 to 24:00 Hr	45.3	55.1	48.4	50.6	91.5	68.3

Location: <b>New Perungalathur (R)</b>	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	52.2	84.7	54.8	55.1	84.8	78.4
19:00 to 20:00 Hr	44.9	72.5	46.5	54.3	78.8	72.4
20:00 to 21:00 Hr	39.6	84.6	42.1	53.8	91.6	83.2
21:00 to 22:00 Hr	52.2	79.8	55.9	50.5	76.3	61.1
22:00 to 23:00 Hr	52.5	66.3	55.8	55.7	70.8	63.5
23:00 to 24:00 Hr	53.0	73.7	57.4	55.5	72.2	64.0





## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### CHENGALPET

Name of the location: <b>Maraimalainagar (R)</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	6.0	7.0	20.0	18.0	30
06.11.2023	9.0	3.0	19.0	16.0	27
07.11.2023	5.0	6.0	22.0	21.0	35
08.11.2023	7.0	8.0	24.0	22.0	37
09.11.2023	8.0	10.0	36.0	28.0	47
10.11.2023	12.0	14.0	49.0	32.0	53
11.11.2023	20.0	26.0	117.0	43.0	111
<b>12.11.2023</b>	<b>18.0</b>	<b>49.0</b>	<b>153.0</b>	<b>112.0</b>	<b>273</b>
13.11.2023	16.0	23.0	98.0	50.0	98
14.11.2023	5.0	8.0	21.0	15.0	25
15.11.2023	12.0	14.0	24.0	22.0	37
16.11.2023	14.0	18.0	39.0	24.0	40
17.11.2023	15.0	18.0	40.0	29.0	48
18.11.2023	12.0	13.0	50.0	22.0	50
19.11.2023	12.0	14.0	45.0	23.0	45

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### CHENGALPET

Name of the location: **New Perungalathur (R )**

Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	22.0	9.0	36.0	10.0	36
06.11.2023	5.0	4.0	34.0	14.0	34
07.11.2023	6.0	7.0	36.0	9.0	36
08.11.2023	6.0	8.0	32.0	12.0	32
09.11.2023	9.0	12.0	41.0	26.0	43
10.11.2023	14.0	16.0	44.0	22.0	44
11.11.2023	19.0	21.0	113.0	30.0	109
<b>12.11.2023</b>	<b>17.0</b>	<b>51.0</b>	<b>194.0</b>	<b>118.0</b>	<b>293</b>
13.11.2023	15.0	20.0	91.0	26.0	91
14.11.2023	4.0	6.0	20.0	12.0	20
15.11.2023	8.0	11.0	22.0	20.0	33
16.11.2023	14.0	17.0	34.0	22.0	37
17.11.2023	17.0	20.0	43.0	27.0	45
18.11.2023	11.0	13.0	41.0	19.0	41
19.11.2023	11.0	14.0	37.0	20.0	37

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Deepavali Monitoring 2023

### Coimbatore

#### City:

- Latitude & Longitude : 11° 00' N, 77° 00' E
- Climate / Meteorology : 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  
(Residential, Commercial and Silence) : **Noise level survey**  
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 - 2023**

**COIMBATORE**

Location: <b>Kavundampalayam (R)</b>	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	48.4	84.2	57.2	48.6	110.1	91.6
19:00 to 20:00 Hr	48.1	97.8	61.8	74.4	81.1	76.8
20:00 to 21:00 Hr	49.1	89	61.9	59.2	99.9	75.1
21:00 to 22:00 Hr	47.2	76.4	75.9	52.4	94.5	61.2
22:00 to 23:00 Hr	46.8	81.8	48.2	47.3	106.9	77.6
23:00 to 24:00 Hr	45.2	91.4	48.3	46.1	95	81.9

Location: <b>District Collectorate (C)</b>	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	54.0	79.1	61.8	53.8	69.0	59.7
19:00 to 20:00 Hr	51.0	88.1	61.2	49.0	88.8	59.9
20:00 to 21:00 Hr	49.2	80.1	58.1	54.3	91.8	68.4
21:00 to 22:00 Hr	49.0	84.1	57.0	51.3	87.2	63.4
22:00 to 23:00 Hr	47.8	77.3	55.1	48.9	85.3	62.0
23:00 to 24:00 Hr	47.1	72.5	52.3	47.4	82.7	56.0



**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from 05.11.2023 to**  
**19.11.2023**

Annexure - V

**COIMBATORE**

Name of the location: <b>Kavundampalayam (R )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	6.0	15.7	30.0	16.0	27
06.11.2023	6.3	15.9	36.0	19.0	36
07.11.2023	6.5	16.5	40.0	23.0	40
08.11.2023	7.1	16.0	46.0	26.0	46
09.11.2023	6.3	16.5	50.0	28.0	50
10.11.2023	7.4	16.9	53.0	31.0	53
11.11.2023	16.5	29.7	125.0	58.0	117
12.11.2023	<b>20.7</b>	<b>39.1</b>	<b>155.0</b>	<b>86.0</b>	<b>187</b>
13.11.2023	8.7	16.5	56.0	36.0	74
14.11.2023	7.3	18.1	65.0	25.0	65
15.11.2023	6.5	11.9	62.0	23.0	62
16.11.2023	5.3	10.8	60.0	22.0	60
17.11.2023	5.3	14.3	64.0	27.0	64
18.11.2023	6.7	16.4	52.0	27.0	52
19.11.2023	6.0	14.9	58.0	26.0	58

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### COIMBATORE

Name of the location: District Collectorate (C)					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	4.8	15.1	31.0	14.0	31
06.11.2023	5.9	16.2	39.0	18.0	39
07.11.2023	6.1	15.2	42.0	20.0	42
08.11.2023	6.3	17.4	50.0	23.0	50
09.11.2023	7.0	17.3	54.0	29.0	54
10.11.2023	10.1	21.3	57.0	30.0	57
11.11.2023	14.8	27.4	95.0	52.0	95
12.11.2023	18.0	31.3	196.0	89.0	197
13.11.2023	8.5	23.9	83.0	42.0	83
14.11.2023	8.1	19.6	73.0	36.0	73
15.11.2023	5.5	10.9	65.0	28.0	65
16.11.2023	5.6	12.3	62.0	25.0	62
17.11.2023	5.7	14.3	68.0	30.0	68
18.11.2023	5.3	16.1	56.0	30.0	56
19.11.2023	6.8	15.9	62.0	28.0	62

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Deepavali Monitoring 2023

### Cuddalore

ity:

- Latitude & Longitude : 11° 43' N, 79° 49' E
- Climate / Meteorology : Pre Deepavali - Partially cloudy with sporadic drizzling  
: Deepavali - Partially cloudy
- Population : 26,05,914 (2011 Census)
- Major Land use : Commercial / 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) Imperial Road (C)  
Velva Nagar (R)  
**Ambient Air quality Survey**  
Imperial Road (C)  
Velva Nagar (R)
- Activities around the monitoring location / Sources of Noise Pollution : The monitoring locations are in Residential & Commercial area, Bursting of Fire Crackers and vehicle movements.



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2023**

**CUDDALORE**

Location: Imperial Road ( C )	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
18:00 to 19:00 Hr	60.0	84.3	65.9	53.8	96.1	71.9
19:00 to 20:00 Hr	59.7	88.9	66.7	59.6	97.6	73.3
20:00 to 21:00 Hr	59.3	89.5	65.2	56.6	103.2	70.5
21:00 to 22:00 Hr	67.7	81.2	71.0	57.3	108.5	82.6
22:00 to 23:00 Hr	57.3	84.5	70.8	58.0	90.2	76.0
23:00 to 24:00 Hr	59.1	88.9	73.8	54.9	83.9	68.8

Location: Velva Nagar (R)	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
18:00 to 19:00 Hr	47.4	81.8	67.8	52.6	118	87.5
19:00 to 20:00 Hr	52.5	87.7	77.3	54.4	120.5	92.5
20:00 to 21:00 Hr	44.0	98.7	63.9	47.4	116.0	81.4
21:00 to 22:00 Hr	44.8	92.2	62.9	40.6	118.0	78.5
22:00 to 23:00 Hr	44.9	80.1	62.6	36.9	85.8	54.3
23:00 to 24:00 Hr	36.4	94.4	58.5	35.4	84.1	54.8





## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### CUDDALORE

Name of the location: Imperial Road (C )					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	15.0	27.0	37.0	15.0	37
06.11.2023	17.0	24.0	31.0	13.0	31
07.11.2023	21.0	28.0	41.0	19.0	41
08.11.2023	19.0	26.0	34.0	17.0	34
09.11.2023	18.0	30.0	43.0	19.0	43
10.11.2023	24.0	35.0	78.0	22.0	78
11.11.2023	28.0	40.0	113.0	35.0	109
<b>12.11.2023</b>	<b>31.0</b>	<b>49.0</b>	<b>284.0</b>	<b>83.0</b>	<b>234</b>
13.11.2023	24.0	30.0	186.0	52.0	157
14.11.2023	Rainfall				
15.11.2023	19.0	29.0	129.0	36.0	119
16.11.2023	17.0	26.0	94.0	34.0	94
17.11.2023	16.0	23.0	83.0	29.0	83
18.11.2023	17.0	26.0	38.0	23.0	38
19.11.2023	20.0	28.0	57.0	28.0	57

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### CUDDALORE

Name of the location: <b>Velva Nagar (R)</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	4.0	7.0	18.0	6.0	18
06.11.2023	6.0	11.0	14.0	5.0	14
07.11.2023	9.0	14.0	22.0	9.0	22
08.11.2023	11.0	15.0	20.0	8.0	20
09.11.2023	10.0	21.0	25.0	11.0	25
10.11.2023	14.0	24.0	38.0	12.0	38
11.11.2023	21.0	29.0	57.0	17.0	57
12.11.2023	<b>26.0</b>	<b>31.0</b>	<b>199.0</b>	<b>53.0</b>	<b>166</b>
13.11.2023	19.0	24.0	78.0	25.0	78
14.11.2023	Rainfall				
15.11.2023	14.0	19.0	59.0	18.0	59
16.11.2023	13.0	17.0	47.0	16.0	47
17.11.2023	11.0	15.0	43.0	14.0	43
18.11.2023	12.0	19.0	33.0	12.0	33
19.11.2023	13.0	22.0	38.0	15.0	38

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Deepavali Monitoring 2023

### Dindigul

#### City:

- Latitude & Longitude : 10° 22' N, 78° 00' 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) Nagal Pudur (R)  
Near Rajagopal Iyyangar & Sons (C)  
**Ambient Air quality Survey**  
Nagal Pudur (R)  
Near Rajagopal Iyyangar & Sons (C)
- Activities around the monitoring location / Sources of Noise Pollution : Normal and public activities and Crackers Noise.



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2023**

**DINDIGUL**

Location: Nagal Pudur ( R )	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
18:00 to 19:00 Hr	43.8	90.2	65.4	68.7	118.3	79.9
19:00 to 20:00 Hr	43.2	82.5	68.0	68.0	117.1	83.5
20:00 to 21:00 Hr	46.8	78.4	50.6	56.3	118.4	82.7
21:00 to 22:00 Hr	50.1	77.7	58.5	54.7	111.2	80.0
22:00 to 23:00 Hr	43.3	87.7	56.0	53.0	103.4	74.2
23:00 to 24:00 Hr	47.1	61.7	49.1	48.0	96.3	66.3

Location: Rajagopal Iyengar ( C )	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
18:00 to 19:00 Hr	81.9	113.1	90.0	76.5	124.5	96.1
19:00 to 20:00 Hr	76.7	114.8	86.7	81.1	119.8	96.1
20:00 to 21:00 Hr	73.8	112.7	85.2	78.8	121.6	96.3
21:00 to 22:00 Hr	77.1	110.9	89.3	75.1	120.7	91.6
22:00 to 23:00 Hr	74.6	107.4	88.9	73.3	110.4	88.1
23:00 to 24:00 Hr	66.7	91.7	73.2	72.5	110.2	86.2



Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

DINDIGUL

Name of the location: Nagal Pudur ( R )					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	8.4	12.8	36.4	19.2	36
06.11.2023	9.9	14.6	34.2	12.2	34
07.11.2023	8.2	13.2	29.2	11.3	29
08.11.2023	8.9	13.3	30.9	10.0	31
09.11.2023	7.7	12.2	27.2	9.3	27
10.11.2023	10.3	16.4	31.3	12.1	31
11.11.2023	12.6	18.3	37.1	15.3	37
<b>12.11.2023</b>	<b>18.7</b>	<b>26.3</b>	<b>64.2</b>	<b>27.1</b>	<b>64</b>
13.11.2023	13.4	21.2	51.3	20.2	51
14.11.2023	11.6	17.3	40.1	15.9	40
15.11.2023	10.7	16.7	38.1	13.8	38
16.11.2023	10.3	15.5	35.1	13.1	35
17.11.2023	9.5	14.4	33.1	11.8	33
18.11.2023	8.6	13.6	30.2	9.8	30
19.11.2023	9.5	14.7	32.1	10.9	32

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### DINDIGUL

Name of the location: Near Rajagopal Iyyengar & Sons ( C )					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	11.2	15.7	52.4	24.1	52
06.11.2023	12.2	16.7	49.9	20.2	50
07.11.2023	11.4	16.1	48.4	19.1	48
08.11.2023	13.4	18.4	46.7	17.0	47
09.11.2023	11.6	16.2	44.3	16.3	44
10.11.2023	12.6	17.3	50.2	22.4	50
11.11.2023	15.4	21	59.2	26.3	59
<b>12.11.2023</b>	<b>23.6</b>	<b>31.2</b>	<b>98.3</b>	<b>42.1</b>	<b>98</b>
13.11.2023	18.3	26.6	76.3	33.1	76
14.11.2023	14.6	22.7	62.1	28.2	62
15.11.2023	13.5	20.8	56.1	25.1	56
16.11.2023	12.8	19.4	52.1	21.8	52
17.11.2023	13.3	18.3	54.7	23.8	55
18.11.2023	11.8	17.1	50.8	19.8	51
19.11.2023	12.2	17.3	53.3	21.8	53

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Deepavali Monitoring 2023

### Hosur

#### City:

- Latitude & Longitude : 12° 44' N and 77° 52' E
- Climate / Meteorology : Pre Deepavali – Slightly drizzling & partially cloudy  
Deepavali – Partially cloudy
- Population : 1,16,821 (2011 Census)
- Major Land use : Residential & Silence

#### Monitoring Locations:

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

#### Activities around the monitoring location /

#### Sources of Noise Pollution

: Major commercial town with 3 major industrial estates and 5 SIDCO industrial estates.

First location surrounded by commercial activities and second surrounded by residential area and hill area.



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2023**

HOSUR

Location: <b>Municipal Corporation Office (C)</b>	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
Time duration						
18:00 to 19:00 Hr	52.3	87.7	70.8	54.8	95.4	72.3
19:00 to 20:00 Hr	56.1	100.1	73	53.6	99.8	73.8
20:00 to 21:00 Hr	57.3	86.3	68.7	55.9	113.8	82.9
21:00 to 22:00 Hr	48.8	83.4	66.2	57.7	113.5	88.2
22:00 to 23:00 Hr	49	80.7	63.9	57.5	108.8	78.3
23:00 to 24:00 Hr	57.3	76.6	62.6	58.8	101.7	75.8

Location: : <b>Kamaraj Nagar High School (R)</b>	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
Time duration						
18:00 to 19:00 Hr	56.6	60.2	58.2	55.1	95.7	70.2
19:00 to 20:00 Hr	56.5	82.4	67.9	56.4	93.1	76.1
20:00 to 21:00 Hr	56	78.3	61.4	57.7	100.7	75.1
21:00 to 22:00 Hr	58.2	80.2	63	49	109.6	78.3
22:00 to 23:00 Hr	57.6	83.5	63.9	53.2	113	81.5
23:00 to 24:00 Hr	47.3	79.5	58.6	38.4	108.1	85.9





## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### HOSUR

Name of the location: <b>Municipal Corporation Office (C )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	16.6	21.8	37.8	7.1	39
06.11.2023	16.2	22.2	52.0	11.5	52
07.11.2023	16.0	20.5	32.7	10.9	38
08.11.2023	16.2	20.6	51.0	11.6	51
09.11.2023	16.6	19.8	44.7	22.2	45
10.11.2023	15.2	19.3	71.0	34.9	71
11.11.2023	15.8	20.1	75.8	28.1	76
<b>12.11.2023</b>	<b>17.1</b>	<b>27.3</b>	<b>124.3</b>	<b>30.8</b>	<b>116</b>
13.11.2023	17.9	23.0	130.9	43.7	121
14.11.2023	16.0	23.1	46.7	24.3	47
15.11.2023	16.4	21.3	56.6	28.7	54
16.11.2023	15.2	21.1	54.4	14.3	54
17.11.2023	16.2	22.6	41.9	21.1	42
18.11.2023	15.6	20.0	28.9	14.6	35
19.11.2023	16.6	18.0	45.6	20.3	46

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### HOSUR

Name of the location: Kamaraj Nagar High School (R)					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	16.4	23.2	29.7	11.1	38
06.11.2023	17.3	23.5	38.1	10.2	38
07.11.2023	16.4	22.9	22.1	10.5	38
08.11.2023	15.2	20.6	38.7	13.4	43
09.11.2023	15.2	19.1	42.1	22.2	42
10.11.2023	15.0	20.7	66.4	28.0	66
11.11.2023	16.9	23.9	69.3	21.3	69
<b>12.11.2023</b>	<b>18.5</b>	<b>31.0</b>	<b>154.2</b>	<b>48.1</b>	<b>136</b>
13.11.2023	15.8	22.6	125.3	39.5	117
14.11.2023	16.4	20.5	74.7	27.6	75
15.11.2023	16.9	22.3	88.1	24.8	88
16.11.2023	17.3	23.0	63.3	19.9	63
17.11.2023	16.6	19.6	50.3	23.5	50
18.11.2023	15.8	23.8	37.9	19.1	38
19.11.2023	17.1	21.3	48.4	17.1	48

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Deepavali Monitoring 2023

### Madurai

#### City:

- Latitude & Longitude : 9°58' N, 78°10' E
- Climate / Meteorology : Pre Deepavali Day: Partially Cloudy  
On Deepavali Day: Cloudy
- Population : 30,38,252 (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  
(Residential, Commercial and Silence) : Noise level survey  
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 : Vehicle Movement and bursting  
of crackers on Deepavali day.



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2023**

**MADURAI**

Location: Thirunagar (R)	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
Time duration						
18:00 to 19:00 Hr	40.8	102.5	72.3	58.9	124.0	75.7
19:00 to 20:00 Hr	40.5	98.4	72.0	62.8	129.2	85.1
20:00 to 21:00 Hr	38.4	96.8	68.1	59.6	101.3	80.4
21:00 to 22:00 Hr	38.9	90.2	55.4	58.5	100.8	75.1
22:00 to 23:00 Hr	40.0	81.0	50.2	54.2	89.6	63.2
23:00 to 24:00 Hr	40.2	79.7	49.0	50.0	80.7	57.6

Location: BirlaVisram (C)	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
Time duration						
18:00 to 19:00 Hr	56.1	84.4	62.4	63.3	115.2	78.8
19:00 to 20:00 Hr	58.1	87.6	58.4	54.4	126.9	90.8
20:00 to 21:00 Hr	59.8	70.8	66.1	48.4	99.7	79.3
21:00 to 22:00 Hr	55.8	87.0	59.0	41.9	112.2	75.2
22:00 to 23:00 Hr	51.2	86.2	55.0	62.2	82.0	72.8
23:00 to 24:00 Hr	45.8	68.6	50.0	41.5	98.0	67.2



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### MADURAI

Name of the location: Thiru Nagar (R )					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	28.0	34.0	30.1	10.0	38
06.11.2023	23.0	28.0	35.7	10.0	35
07.11.2023	12.0	22.0	49.3	10.0	49
08.11.2023	13.0	21.0	52.4	10.0	52
09.11.2023	13.0	20.0	46.9	10.0	63
10.11.2023	12.0	24.0	47.3	10.0	47
11.11.2023	48.0	84.0	152.3	20.0	152
<b>12.11.2023</b>	<b>72.0</b>	<b>90.0</b>	<b>247.4</b>	<b>50.8</b>	<b>247</b>
13.11.2023	44.0	44.5	170.0	9.0	170
14.11.2023	18.0	43.0	74.8	10.0	75
15.11.2023	12.0	28.4	90.5	10.0	90
16.11.2023	18.0	35.0	91.4	22.0	91
17.11.2023	13.0	32.0	62.0	12.0	88
18.11.2023	16.9	26.6	80.9	12.0	81
19.11.2023	17.0	25.0	77.3	11.0	78

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### MADURAI

Name of the location: <b>Birla Vishram (M)</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	31.0	35.0	66.7	10.0	67
06.11.2023	25.0	37.0	32.6	10.0	34
07.11.2023	10.0	15.0	28.0	10.0	28
08.11.2023	12.0	15.0	42.0	11.0	42
09.11.2023	15.0	23.0	79.0	10.0	79
10.11.2023	12.0	23.0	35.8	11.0	35
11.11.2023	14.0	27.0	52.0	12.0	52
<b>12.11.2023</b>	<b>45.0</b>	<b>74.0</b>	<b>153.0</b>	<b>29.0</b>	<b>153</b>
13.11.2023	21.0	49.0	79.0	9.0	79
14.11.2023	21.0	49.0	47.0	10.0	46
15.11.2023	13.0	20.0	88.0	30.0	88
16.11.2023	14.0	20.0	52.0	18.0	52
17.11.2023	12.0	23.0	88.0	14.0	62
18.11.2023	18.0	26.0	59.0	10.0	59
19.11.2023	19.0	26.0	63.0	10.0	63

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Deepavali Monitoring 2023

### Nagercoil

#### City:

- Latitude & Longitude : 8° 11' N, 77° 29' E
- Climate / Meteorology : Pre Deepavali - Partially cloudy  
Deepavali - 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  
(Residential, Commercial and Silence) : **Noise level survey**  
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 - 2023**

**TIRUNELVELI - Nagercoil**

Location: <b>Water Tank (M)</b>	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	47.4	56.2	52.8	54.2	74.5	63.7
19:00 to 20:00 Hr	49.8	59.4	55.5	51.7	83.2	69.3
20:00 to 21:00 Hr	52.3	60.7	56.2	67.3	89.4	76.3
21:00 to 22:00 Hr	52.8	61.8	56.6	57.1	76.3	55.4
22:00 to 23:00 Hr	49.2	58.6	53.0	57.6	68.4	58.9
23:00 to 24:00 Hr	43.5	53.4	49.0	47.8	68.1	58.2

Location: <b>Scott Christian College (R)</b>	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	43.6	53.2	49.8	65.1	87.2	75.2
19:00 to 20:00 Hr	43.9	62.1	51.9	55.3	66.4	60.2
20:00 to 21:00 Hr	45.7	56.7	52.0	58.4	90.5	78.8
21:00 to 22:00 Hr	41.5	49.5	46.4	56.1	85.6	72.1
22:00 to 23:00 Hr	46.3	53.7	49.8	48.8	60.2	54.7
23:00 to 24:00 Hr	43.8	57.0	48.7	46.4	58.0	53.2





## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### NAGERCOIL

Name of the location: <b>Water Tank Road (M)</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	9.3	15.3	34.6	19.1	35
06.11.2023	10.0	16.0	49.9	24.1	50
07.11.2023	11.0	16.6	54.3	26.2	54
08.11.2023	11.8	18.0	60.8	27.0	61
09.11.2023	13.3	19.3	67.6	28.1	68
10.11.2023	15.1	20.7	76.4	30.0	76
11.11.2023	16.8	21.4	98.7	34.3	99
<b>12.11.2023</b>	<b>18.1</b>	<b>23.4</b>	<b>107.5</b>	<b>38.0</b>	<b>107</b>
13.11.2023	16.2	22.4	99.2	33.6	99
14.11.2023	15.6	21.3	80.8	32.0	81
15.11.2023	14.4	20.6	70.6	28.2	71
16.11.2023	13.4	19.4	60.4	27.3	60
17.11.2023	12.8	19.0	55.1	25.0	55
18.11.2023	11.5	17.6	50.0	23.3	50
19.11.2023	10.5	17.1	45.0	21.1	40

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023**

Annexure - V

**NAGERCOIL**

Name of the location: <b>Scott Christian College (R)</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	8.5	14.5	33.3	16.4	33
06.11.2023	10.6	16.6	43.0	19.4	43
07.11.2023	10.9	16.7	47.4	21.2	47
08.11.2023	11.2	17.3	50.9	20.8	51
09.11.2023	12.7	18.6	56.0	23.1	56
10.11.2023	14.0	20.1	61.0	25.0	61
11.11.2023	15.6	21.5	84.8	31.0	85
12.11.2023	16.8	21.4	93.2	33.2	93
13.11.2023	14.9	20.8	83.3	31.0	83
14.11.2023	14.3	20.4	75.9	29.0	76
15.11.2023	13.3	19.5	60.3	26.0	60
16.11.2023	12.2	18.0	51.7	24.2	52
17.11.2023	11.5	17.6	48.7	23.1	49
18.11.2023	10.2	16.7	44.6	21.3	45
19.11.2023	9.0	16.2	40.0	19.1	45

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Deepavali Monitoring 2023

### Salem

#### City:

- Latitude & Longitude : 11°39' N, 78°12' E
- Climate / Meteorology : Pre Deepavali – Clear sky  
Deepavali – Clear sky
- 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 (Residential, Commercial and Silence) : **Noise level survey**  
Sri Saradha Balamandhir  
Boys Matric Higher Secondary  
School (R)  
Siva Tower (C&I)  
**Ambient Air quality Survey**  
Sri Saradha Balamandhir  
Boys Matric Higher Secondary  
School (R)  
Siva Tower (C &I)
- Activities around the monitoring location / Sources of Noise Pollution : The 1<sup>st</sup> location is surrounded by residential area with Schools and Hospitals.  
The 2<sup>nd</sup> Commercial and Industrial location is Automobile Work Shops, Sales centres of Automobile spares are located in Meyyanur Main Road.



Tamil Nadu Pollution Control Board  
Noise level during Deepavali festival - 2023

SALEM

Location: Sri Saradha Balamandhir Boys Matric Hr. Sec. School ( R )	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
Time duration						
18:00 to 19:00 Hr	42.4	80.4	53.0	45.8	104.1	70.6
19:00 to 20:00 Hr	40.0	93.1	53.6	53.5	104.2	87.6
20:00 to 21:00 Hr	42.0	77.0	54.9	45.6	99.3	66.3
21:00 to 22:00 Hr	40.0	77.8	46.3	39.2	93.3	59.8
22:00 to 23:00 Hr	34.0	75.0	37.5	35.3	93.4	53.1
23:00 to 24:00 Hr	32.3	74.5	35.2	29.6	96.8	42.9

Location: Siva Tower (C&I)	Pre - Deepavali Day (06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
Time duration						
18:00 to 19:00 Hr	59.8	85.1	66.5	60.3	108.9	82.1
19:00 to 20:00 Hr	59.0	81.8	64.6	62.5	109	84.6
20:00 to 21:00 Hr	57.6	84.1	64.9	59.4	105.8	79.3
21:00 to 22:00 Hr	55.8	87.8	64.8	55.7	100.6	73.5
22:00 to 23:00 Hr	54.2	81.1	61.6	55.6	95.2	74.7
23:00 to 24:00 Hr	52.4	77.5	59.4	52.4	90.6	63.0



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### SALEM

Name of the location: <b>Sri Saradha Balamandhir Boys Higher Secondary School (R )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	5.1	8.3	30.0	13.0	30
06.11.2023	5.6	8.7	32.0	15.0	32
07.11.2023	4.7	7.8	31.0	11.0	31
08.11.2023	6.2	9.8	34.0	16.0	34
09.11.2023	6.7	13.1	44.0	18.0	44
10.11.2023	8.2	17.4	50.0	21.0	50
11.11.2023	15.4	25.0	95.0	32.0	95
<b>12.11.2023</b>	<b>25.3</b>	<b>51.0</b>	<b>169.0</b>	<b>50.0</b>	<b>169</b>
13.11.2023	20.0	30.0	116.0	35.0	116
14.11.2023	13.0	21.0	76.0	21.0	76
15.11.2023	11.0	18.0	62.0	18.0	62
16.11.2023	7.6	14.0	45.0	17.0	45
17.11.2023	7.2	12.7	38.0	16.0	38
18.11.2023	6.3	11.0	34.0	12.0	34
19.11.2023	5.6	10.3	31.0	12.0	31

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### SALEM

Name of the location: <b>Siva Tower ( C&amp;R)</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	8.4	20.0	42.0	17.0	42
06.11.2023	8.8	20.6	43.0	18.0	43
07.11.2023	6.9	17.4	39.0	15.0	39
08.11.2023	9.5	23.5	44.0	18.0	44
09.11.2023	9.5	22.7	49.0	20.0	49
10.11.2023	10.4	21.4	56.0	23.0	56
11.11.2023	13.4	30.1	73.0	30.0	73
<b>12.11.2023</b>	<b>22.9</b>	<b>47.4</b>	<b>148.0</b>	<b>40.0</b>	<b>148</b>
13.11.2023	17.3	38.3	88.0	34.0	88
14.11.2023	12.4	26.1	66.0	27.0	66
15.11.2023	12.6	23.3	50.0	26.0	50
16.11.2023	11.2	19.7	47.0	19.0	47
17.11.2023	10.2	21.2	45.0	18.0	45
18.11.2023	9.5	20.0	43.0	17.0	43
19.11.2023	8.6	19.5	40.0	17.0	40

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Deepavali Monitoring 2023

### Tirunelveli

#### City:

- Latitude & Longitude : 8° 44' N, 77° 44' E
- Climate / Meteorology : Pre Deepavali – Partially cloudy  
Deepavali – Cloudy
- Population : 30,77,233 (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) Tirunelveli Town (R)  
Pettai (S)  
**Ambient Air quality Survey**  
Tirunelveli Town (R)  
Pettai (S)
- Activities around the monitoring location / Sources of Noise Pollution : In both the locations, crackers were burst on Deepavali day.



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2023**

**TIRUNELVELI**

Location: <b>Pettai ( S )</b>	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	51.1	60.3	56.3	44.4	95.2	62.9
19:00 to 20:00 Hr	55.0	63.5	58.1	51.7	91.1	65.0
20:00 to 21:00 Hr	48.2	59.2	53.7	51.4	86.0	63.0
21:00 to 22:00 Hr	48.3	54.8	50.2	51.6	86.7	63.2
22:00 to 23:00 Hr	47.6	56.2	52.7	60.1	81.9	66.7
23:00 to 24:00 Hr	45.5	52.6	48.5	60.0	83.2	68.0

Location: <b>Tirunelveli Town (R)</b>	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	56.3	67.8	65.9	49.9	113.7	80.1
19:00 to 20:00 Hr	59.6	70.0	69.5	56.6	118.6	93.2
20:00 to 21:00 Hr	58.7	69.5	67.1	55.8	112.0	89.0
21:00 to 22:00 Hr	53.2	66.4	64.3	50.9	99.3	71.8
22:00 to 23:00 Hr	52.3	66.2	63.4	47.3	98.3	68.3
23:00 to 24:00 Hr	51.6	65.9	63.2	54.3	80.8	58.4





## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### TIRUNELVELI

Name of the location: <b>Pettai ( S )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	10.0	15.9	40.1	20.9	40
06.11.2023	11.6	17.4	52.6	25.4	53
07.11.2023	12.4	17.9	57.3	26.9	57
08.11.2023	12.7	18.3	64.7	28.1	65
09.11.2023	14.1	19.9	73.7	30.0	74
10.11.2023	15.3	20.5	79.0	32.1	79
11.11.2023	17.5	21.8	100.0	35.2	100
<b>12.11.2023</b>	<b>18.6</b>	<b>23.5</b>	<b>110.4</b>	<b>39.0</b>	<b>110</b>
13.11.2023	16.8	22.8	101.7	36.0	102
14.11.2023	16.2	22.7	85.0	33.9	85
15.11.2023	14.9	21.1	74.4	30.8	74
16.11.2023	14.1	19.9	63.3	29.3	63
17.11.2023	13.4	19.4	58.0	26.1	58
18.11.2023	12.2	18.5	52.3	24.2	52
19.11.2023	10.9	17.6	47.4	22.1	47

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### TIRUNELVELI

Name of the location: Tirunelveli Town ( R )					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	9.1	15.2	34.4	17.9	34
06.11.2023	10.2	15.6	46.9	22.4	47
07.11.2023	10.9	16.7	50.0	23.0	50
08.11.2023	11.4	17.4	57.0	24.1	57
09.11.2023	13.3	19.0	64.3	25.3	64
10.11.2023	14.3	20.2	68.7	27.0	69
11.11.2023	16.1	21.0	93.4	33.1	93
<b>12.11.2023</b>	<b>17.5</b>	<b>22.4</b>	<b>99.8</b>	<b>36.0</b>	<b>100</b>
13.11.2023	15.6	21.7	88.2	33.1	88
14.11.2023	14.9	20.8	78.7	31.0	79
15.11.2023	13.6	19.9	65.4	29.4	65
16.11.2023	12.8	19.0	57.0	26.0	57
17.11.2023	12.2	18.5	51.7	24.0	52
18.11.2023	10.9	17.1	47.0	22.0	47
19.11.2023	9.6	16.7	42.4	20.2	42

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Deepavali Monitoring 2023

### Trichy

#### City:

- Latitude & Longitude : 10° 50' N, 78° 46' E
- Climate / Meteorology : Clear Sky Pre Deepavali and Deepavali
- 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**

Ramalinga Nagar (R)

Gandhi Park (C )

- Activities around the monitoring location / Sources of Noise Pollution : NLS location - Residential area all type of vehicles movement observed.



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2023**

TRICHY

Location: Thillai Nagar ( R )	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
18:00 to 19:00 Hr	48.0	95.8	67.8	45.8	114.3	83.8
19:00 to 20:00 Hr	46.9	93.0	66.1	57.1	117.8	88.1
20:00 to 21:00 Hr	46.2	93.6	65.5	51.3	116.5	87.2
21:00 to 22:00 Hr	44.1	89.2	64.3	48.1	122.8	88.2
22:00 to 23:00 Hr	41.6	92.3	62.5	40.8	113.2	81.5
23:00 to 24:00 Hr	39.7	98.5	63.6	34.7	105.1	67.7



**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023**

Annexure - V

**TRICHY**

Name of the location: <b>Ramalinga Nagar (R)</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	8	11	32	8	32
06.11.2023	10.5	14.6	34	12	34
07.11.2023	9.1	12.6	30	10	30
08.11.2023	10.5	14.7	33	12	33
09.11.2023	12.6	16.5	38	13	38
10.11.2023	13.9	16.4	54	19	54
11.11.2023	16.9	20.1	78	32	78
12.11.2023	<b>19.2</b>	<b>24.7</b>	<b>103</b>	<b>52</b>	<b>102</b>
13.11.2023	16.9	21.2	76	30	76
14.11.2023	14.6	18.9	63	24	63
15.11.2023	11.8	16	48	16	48
16.11.2023	10.5	14.5	44	13	44
17.11.2023	11.2	14.6	36	11	36
18.11.2023	13.7	17.6	39	13	39
19.11.2023	13.1	16.7	34	11	34

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### TRICHY

Name of the location: <b>Gandhi Park (C)</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	11.6	14.8	33	10	33
06.11.2023	13.5	17.1	36	14	36
07.11.2023	12.9	16.9	34	12	34
08.11.2023	13.1	17.3	39	14	39
09.11.2023	14.6	18.3	44	16	44
10.11.2023	13.3	16.8	50	18	50
11.11.2023	16.6	20.5	73	28	73
<b>12.11.2023</b>	<b>20.6</b>	<b>25</b>	<b>125</b>	<b>62</b>	<b>117</b>
13.11.2023	17.7	21.5	74	32	74
14.11.2023	16.2	20.4	66	26	66
15.11.2023	13.7	16.7	46	16	46
16.11.2023	13.3	17.3	42	12	42
17.11.2023	12.2	15.7	35	10	35
18.11.2023	13.9	18	37	12	37
19.11.2023	12.4	16.4	34	10	34

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Deepavali Monitoring 2023

### Thanjavur

#### City:

- Latitude & Longitude : 10° 47' N, 79° 10' E
- Climate / Meteorology : Clear Sky on Pre Deepavali and Deepavali day
- 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  
(Residential, Commercial and Silence) : Noise level survey  
Arulanandhammal Nagar (R)  
  
Ambient Air quality Survey  
Teachers Colony (C)  
Arokiya Nagar (R)
- Activities around the monitoring location /  
Sources of Noise Pollution : NLS location - Residential area;  
all type of vehicular movement  
observed.



Tamil Nadu Pollution Control Board  
Noise level during Deepavali festival - 2023

THANJAVUR

Location: Arulanandhammal Nagar (R)	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub> dB(A)
Time duration						
18:00 to 19:00 Hr	41.6	81.2	59.3	48.0	111.0	80.4
19:00 to 20:00 Hr	39.4	90.6	58.7	56.5	122.7	94.3
20:00 to 21:00 Hr	39.3	91.1	60.9	53.3	110.4	82.7
21:00 to 22:00 Hr	40.2	82.3	54.8	43.5	101.6	68.2
22:00 to 23:00 Hr	41.4	75.7	52.2	42.2	96.2	66.3
23:00 to 24:00 Hr	40.4	83.6	55.3	40.0	87.6	58.1





## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### THANJAVUR

Name of the location: **Teachers Colony (C)**

Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	9.7	14	34	10	33
06.11.2023	10.6	13.4	39	14	39
07.11.2023	12.6	16.6	35	12	35
08.11.2023	13.7	16.3	30	11	30
09.11.2023	12.9	15.2	40	17	40
10.11.2023	13.9	17.6	49	17	49
11.11.2023	14.4	17.7	66	29	66
<b>12.11.2023</b>	<b>19.6</b>	<b>23.5</b>	<b>104</b>	<b>49</b>	<b>103</b>
13.11.2023	14	17.5	60	22	60
14.11.2023	13.2	16.3	36	10	36
15.11.2023	11.6	15.4	32	8	32
16.11.2023	13.5	17.6	42	14	42
17.11.2023	12.2	16.1	36	12	36
18.11.2023	12.4	17.1	38	13	38
19.11.2023	11.6	15.1	35	10	35

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### THANJAVUR

Name of the location: Aroikiya Nagar ( R )					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	7.8	11.1	34.0	8.0	34
06.11.2023	8.9	13.7	33.0	9.0	33
07.11.2023	11.4	13.5	32.0	14.0	32
08.11.2023	14.5	18.2	29.0	10.0	29
09.11.2023	10.1	14.0	38.0	15.0	38
10.11.2023	14.5	18.2	45.0	16.0	45
11.11.2023	13.6	15.7	63.0	26.0	63
<b>12.11.2023</b>	<b>18.3</b>	<b>21.4</b>	<b>98.0</b>	<b>46.0</b>	<b>98</b>
13.11.2023	13.2	16.5	57.0	24.0	57
14.11.2023	13.9	18.0	38.0	11.0	38
15.11.2023	12.8	17.1	37.0	10.0	37
16.11.2023	14.3	18.3	46.0	15.0	46
17.11.2023	12.4	15.9	39.0	13.0	39
18.11.2023	12.3	15.9	33.0	9.0	33
19.11.2023	13.7	17.6	35.0	11.0	35

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Deepavali Monitoring 2023

### Tiruppur

#### City:

- Latitude & Longitude : 11° 05' N, 77°20' E
- Climate / Meteorology : Pre Deepavali and Deepavali - Clear sky
- Population : 24,79,052 (2011 Census)
- Major Land use : Residential & Commercial

#### Monitoring Locations:

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

Activities around the monitoring location /  
Sources of Noise Pollution

: Rayapuram is a pure residential area inside Tiruppur Corporation. Kumaran Complex is situated at a traffic island close to the city railway station, Government offices and commercial establishments.



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2023**

**TIRUPPUR**

Location: <b>Rayapuram ( R )</b>	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	32.5	53.6	40.7	29.5	71.3	52.0
19:00 to 20:00 Hr	33.8	68.0	45.8	32.7	82.5	63.5
20:00 to 21:00 Hr	36.5	62.4	46.1	34.6	87.0	65.0
21:00 to 22:00 Hr	34.7	63.6	42.9	33.5	72.1	62.4
22:00 to 23:00 Hr	36.7	62.3	43.5	35.9	69.2	58.6
23:00 to 24:00 Hr	32.7	60.3	39.0	35.6	65.3	47.6

Location: <b>Kumaran Complex ( C )</b>	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	32.2	86.8	57.1	54.6	82.1	63.9
19:00 to 20:00 Hr	34.6	102	70.8	54.8	93	68.6
20:00 to 21:00 Hr	49.6	64.4	53.6	56.4	86.7	67.2
21:00 to 22:00 Hr	55.5	81.8	65.0	50.1	88.9	66.4
22:00 to 23:00 Hr	50.9	85.3	60.7	51.6	89.5	69.3
23:00 to 24:00 Hr	49.1	77.5	57.1	47.1	84.2	60.9



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### TIRUPPUR

Name of the location: <b>Rayapuram ( R )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	5.1	7.6	57.0	20.0	57
06.11.2023	6.2	6.9	57.0	21.0	57
07.11.2023	5.3	6.1	57.0	20.0	57
08.11.2023	3.3	3.7	54.0	23.0	54
09.11.2023	3.8	2.0	59.0	27.0	59
10.11.2023	10.2	7.3	60.0	24.0	60
11.11.2023	12.8	8.3	142.0	34.0	128
<b>12.11.2023</b>	<b>15.5</b>	<b>9.2</b>	<b>161.0</b>	<b>42.0</b>	<b>141</b>
13.11.2023	10.8	5.1	108.0	39.0	105
14.11.2023	8.9	3.5	70.0	27.0	70
15.11.2023	12.0	6.5	65.0	26.0	65
16.11.2023	12.6	6.3	60.0	25.0	60
17.11.2023	12.2	6.4	58.0	24.0	58
18.11.2023	12.8	6.8	60.0	29.0	60
19.11.2023	12.4	7.2	57.0	26.0	57

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### TIRUPPUR

Name of the location: Kumaran Complex ( C )					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	7.8	10.3	70.0	25.0	70
06.11.2023	8.2	8.3	63.0	29.0	63
07.11.2023	7.1	7.4	63.0	25.0	63
08.11.2023	3.8	7.2	64.0	29.0	64
09.11.2023	4.9	2.8	71.0	32.0	71
10.11.2023	9.3	5.2	75.0	34.0	75
11.11.2023	11.1	6.0	80.0	41.0	80
<b>12.11.2023</b>	<b>10.4</b>	<b>4.8</b>	<b>86.0</b>	<b>45.0</b>	<b>86</b>
13.11.2023	8.4	4.6	70.0	37.0	70
14.11.2023	8.2	3.6	68.0	32.0	68
15.11.2023	12.2	10.6	74	31.0	74
16.11.2023	12.9	9.5	77.0	30.0	77
17.11.2023	12.4	9.6	76.0	29.0	76
18.11.2023	13.5	9.0	78.0	32.0	78
19.11.2023	13.7	9.6	79.0	31.0	79

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Deepavali Monitoring 2023

### Thoothukudi

#### City:

- Latitude & Longitude : 8° 48' N, 78° 11' E
- Climate / Meteorology : Pre Deepavali - Occasionally raining  
Deepavali days - Partially Cloudy and drizzling.
  - Population : 17,50,176 (2011 Census)
  - Major Land use : Thoothukudi is an industrial city having Commercial and Residential activities.

#### Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : **Noise Level Survey**  
(Residential, Commercial and Silence) 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 - 2023**

**THOOTHUKUDI**

Location: Rajiv Nagar (R)	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	44.5	74	57	46.2	106.7	76.7
19:00 to 20:00 Hr	45.8	70.0	56.8	52.6	104.9	77.9
20:00 to 21:00 Hr	46.2	69.1	58.7	49.5	103.5	73.8
21:00 to 22:00 Hr	46.7	68.3	58.1	48.5	104.6	72.9
22:00 to 23:00 Hr	45.9	67.0	56.7	47.0	101.9	66.9
23:00 to 24:00 Hr	44.0	61.2	52.1	46.2	84.1	55.9





## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### THOOTHUKUDI

Name of the location: **Rajiv Nagar ( R )**

Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	9.8	13.9	43.4	8.1	43
06.11.2023	5.9	9.7	32.1	6.5	32
07.11.2023	6.5	10.3	39.8	8.1	40
08.11.2023	5.9	10.2	31.6	8.6	32
09.11.2023	6.7	10.7	41.8	9.8	42
10.11.2023	7.5	13.3	28.3	9.6	28
11.11.2023	12.0	18.2	82.4	58.0	97
<b>12.11.2023</b>	<b>17.1</b>	<b>21.0</b>	<b>228.2</b>	<b>85.2</b>	<b>185</b>
13.11.2023	13.1	16.2	102.4	35.5	102
14.11.2023	10.0	16.0	73.7	33.3	74
15.11.2023	8.6	14.2	59.6	25.7	60
16.11.2023	7.7	12.2	47.5	15.5	48
17.11.2023	7.0	12.3	38.9	11.9	39
18.11.2023	6.2	10.9	32.4	10.7	32
19.11.2023	6.1	9.7	29.5	5.0	30

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### THOOTHUKUDI

Name of the location: <b>Celseeni Colony ( R )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	9.0	13.6	66.6	12.1	67
06.11.2023	8.1	11.5	55.8	7.8	56
07.11.2023	10.4	13.4	61.4	9.5	61
08.11.2023	7.1	12.2	42.7	13.3	43
09.11.2023	7.9	12.1	29.1	11.1	29
10.11.2023	9.9	16.6	39.9	13.5	40
11.11.2023	14.1	20.0	87.7	55.1	92
<b>12.11.2023</b>	<b>19.8</b>	<b>23.7</b>	<b>216.1</b>	<b>82.1</b>	<b>177</b>
13.11.2023	16.6	19.5	104.9	30.7	103
14.11.2023	13.3	18.2	79.6	20.9	80
15.11.2023	11.1	16.4	68.8	14.8	69
16.11.2023	10.0	13.9	55.7	10.3	56
17.11.2023	11.2	14.7	36.2	9.6	36
18.11.2023	10.2	13.2	28.2	9.6	28
19.11.2023	8.6	11.2	26.8	6.2	27

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Deepavali Monitoring 2023

### Vellore

#### City:

- Latitude & Longitude : 12° 55' N, 79° 11' E
- Climate / Meteorology : Cloudy occasionally drizzling on Pre Deepavali and Cloudy on Deepavali day
- Population : 39,36,331 (2011 Census)
- Major Land use : Residential

#### Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone (Residential, Commercial and Silence) : **Noise level survey**  
Gandhi Nagar (R)  
SIDCO Industrial Estate (I)  
**Ambient Air quality Survey**  
Gandhi Nagar (R)  
SIDCO Industrial Estate (I)
- Activities around the monitoring location / Sources of Noise Pollution : First location - Residential area with houses, schools, college and some government offices.  
Second location - Predominantly residential with slight commercial activity.



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2023**

**VELLORE**

Location: <b>Gandhi Nagar (R )</b>	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	43.9	83.9	59.2	63.2	96.4	86.8
19:00 to 20:00 Hr	43.0	89.9	63.9	67.4	104.6	92.2
20:00 to 21:00 Hr	47.6	84.0	57.9	65.4	96.1	89.4
21:00 to 22:00 Hr	47.0	77.8	56.9	53.4	78.8	66.4
22:00 to 23:00 Hr	43.1	78.8	51.8	43.1	74.8	54.3
23:00 to 24:00 Hr	39.6	69.4	46.4	39.6	65.4	49.3

Location: <b>SIDCO Industrial Estate ( I )</b>	Pre - Deepavali Day 06.11.2023)			Deepavali Day (12.11.2023)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	50.2	86.5	60.8	56.8	96.3	76.6
19:00 to 20:00 Hr	49.2	82.3	58.3	60.2	102.6	88.3
20:00 to 21:00 Hr	49.8	73.7	57.1	55.4	89.3	79.2
21:00 to 22:00 Hr	50.5	81.6	63.8	46.6	73.4	53.4
22:00 to 23:00 Hr	50.3	86.8	63.6	41.2	74.2	51.3
23:00 to 24:00 Hr	51.0	75.6	56.6	37.2	73.6	44.2



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### VELLORE

Name of the location: <b>Gandhi Nagar ( R )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	6.3	10.0	34.0	10.0	34
06.11.2023	6.6	10.4	35.0	11.0	35
07.11.2023	6.4	10.2	37.0	12.0	37
08.11.2023	7.1	11.7	38.0	13.0	38
09.11.2023	9.1	12.2	39.0	14.0	39
10.11.2023	10.9	13.7	48.0	22.0	48
11.11.2023	9.9	12.8	77.0	42.0	77
<b>12.11.2023</b>	<b>10.7</b>	<b>30.3</b>	<b>169.0</b>	<b>65.0</b>	<b>146</b>
13.11.2023	9.7	26.3	117.0	37.0	111
14.11.2023	8.9	15.2	48.0	29.0	48
15.11.2023	7.9	11.7	45.0	22.0	45
16.11.2023	7.6	10.8	43.0	21.0	43
17.11.2023	7.9	11.2	41.0	20.0	41
18.11.2023	7.6	11.4	36.0	18.0	36
19.11.2023	7.7	10.6	34.0	16.0	34

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



## Tamil Nadu Pollution Control Board

Ambient Air Quality data during Deepavali festival from 05.11.2023 to 19.11.2023

Annexure - V

### VELLORE

Name of the location: <b>SIDCO ( I )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	AQI
05.11.2023	7.6	13.6	36.0	15.0	36
06.11.2023	7.9	13.8	37.0	14.0	37
07.11.2023	8.1	13.6	39.0	17.0	39
08.11.2023	9.0	14.5	40.0	19.0	40
09.11.2023	10.3	13.5	41.0	16.0	41
10.11.2023	12.0	15.0	51.0	28.0	51
11.11.2023	11.4	14	87.0	39.0	87
<b>12.11.2023</b>	<b>11.2</b>	<b>16.7</b>	<b>130.0</b>	<b>27.0</b>	<b>120</b>
13.11.2023	10.2	14.6	97.0	24.0	97
14.11.2023	9.2	13.5	36.0	21.0	36
15.11.2023	9.5	13.7	52.0	26.0	52
16.11.2023	9.1	12.8	51.0	25.0	51
17.11.2023	9.7	12.3	48.0	23.0	48
18.11.2023	9.4	12.6	39.0	20.0	39
19.11.2023	8.9	12.1	36.0	19.0	36

\* All Values (24 hourly Average) are in µg/m<sup>3</sup>



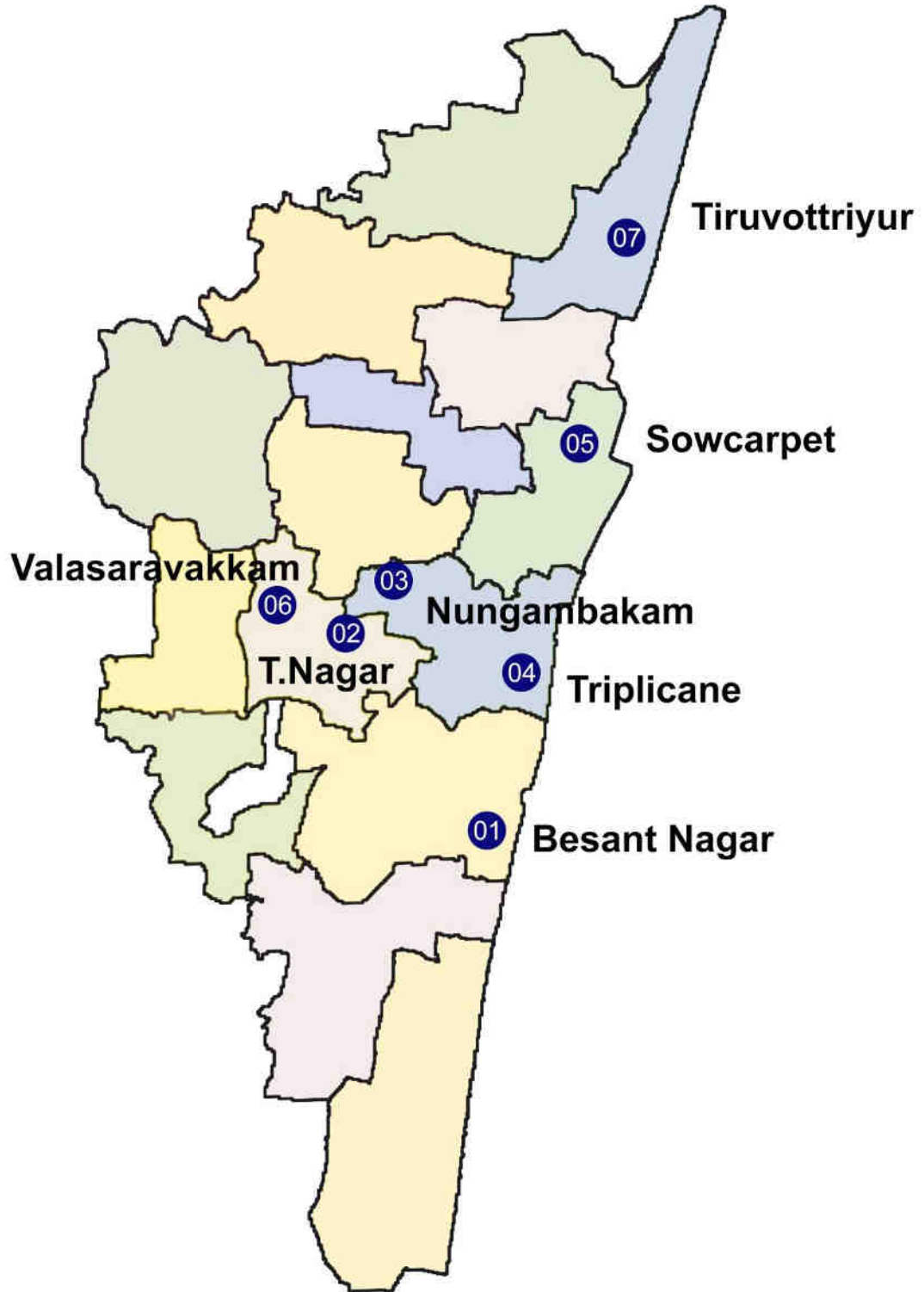
**TAMILNADU POLLUTION CONTROL BOARD**  
**Ambient Air Quality and Noise Level Survey - Deepavali - 2023**  
**SAMPLING LOCATIONS**

Name of the City	No. of stations	AAQ Stations	Name of the City	No. of stations	NLS Stations
1. Chennai	1	Basant Nagar ( R )	1. Chennai	1	Basant 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	Maraimalainagar ( R )	2. Chengalpet	8	Maraimalainagar ( R )
	9	New Perungalathur ( R )		9	New Perungalathur ( R )
3. Coimbatore	10	Kavundampalayam ( R )	3. Coimbatore	10	Kavundampalayam ( R )
	11	District Collectorate ( C )		11	District Collectorate ( C )
4. Cuddalore	12	Imperial Road ( C )	4. Cuddalore	12	Imperial Road ( C )
	13	Velva Nagar ( R )		13	Velva Nagar ( R )
5. Dindigul	14	Nagal Pudur ( R )	5. Dindigul	14	Nagal Pudur ( R )
	15	Rajagopal Iyengar ( C )		15	Rajagopal Iyengar ( C )
6. Hosur	16	Municipal Corporation Office	6. Hosur	16	Municipal Corporation Office
	17	Kamaraj Nagar High School		17	Kamaraj Nagar High School
7. Madurai	18	Thirunagar ( R )	7. Madurai	18	Thirunagar ( R )
	19	Birla Vishram ( M )		19	Birla Vishram ( M )
8. Nagercoil	20	Water Tank Road ( M )	8. Nagercoil	20	Water Tank Road ( M )
	21	Scott Christian College ( R )		21	Scott Christian College ( R )
9. Salem	22	Sri Saradha Balamandhir Boys Matric Hr. Sec. School ( R )	9. Salem	22	Sri Saradha Balamandhir Boys Matric Hr. Sec. School ( R )
	23	Siva Tower ( C&I )		23	Siva Tower ( C&I )
10. Tirunelveli	24	Tirunelveli Town ( R )	10. Tirunelveli	24	Vannarapettai ( C )
	25	Pettai ( S )		25	Pettai ( S )
11. Trichy	26	Ramalinga Nagar ( R )	11. Trichy	26	Thillai Nagar ( R )
	27	Gandhi Park ( C )		27	A. Anjanandhammal Nagar ( R )
12. Thanjavur	28	A. Arokkiya Nagar ( R )	12. Thanjavur	28	Kumaran Complex ( C )
	29	Karunavathi Nagar ( M )		29	Rayapuram ( R )
13. Tiruppur	30	Kumaran Complex ( C )	13. Tiruppur	30	Rajiv Nagar ( R )
	31	Rayapuram ( R )		31	Gandhi Nagar ( R )
14. Thoothukudi	32	Rajiv Nagar ( R )	14. Thoothukudi	32	Sidco Industrial Estate ( I )
	33	Celseeni Colony ( R )		33	
15. Vellore	34	Gandhi Nagar ( R )	15. Vellore	34	
	35	Sidco Industrial Estate ( I )		35	

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

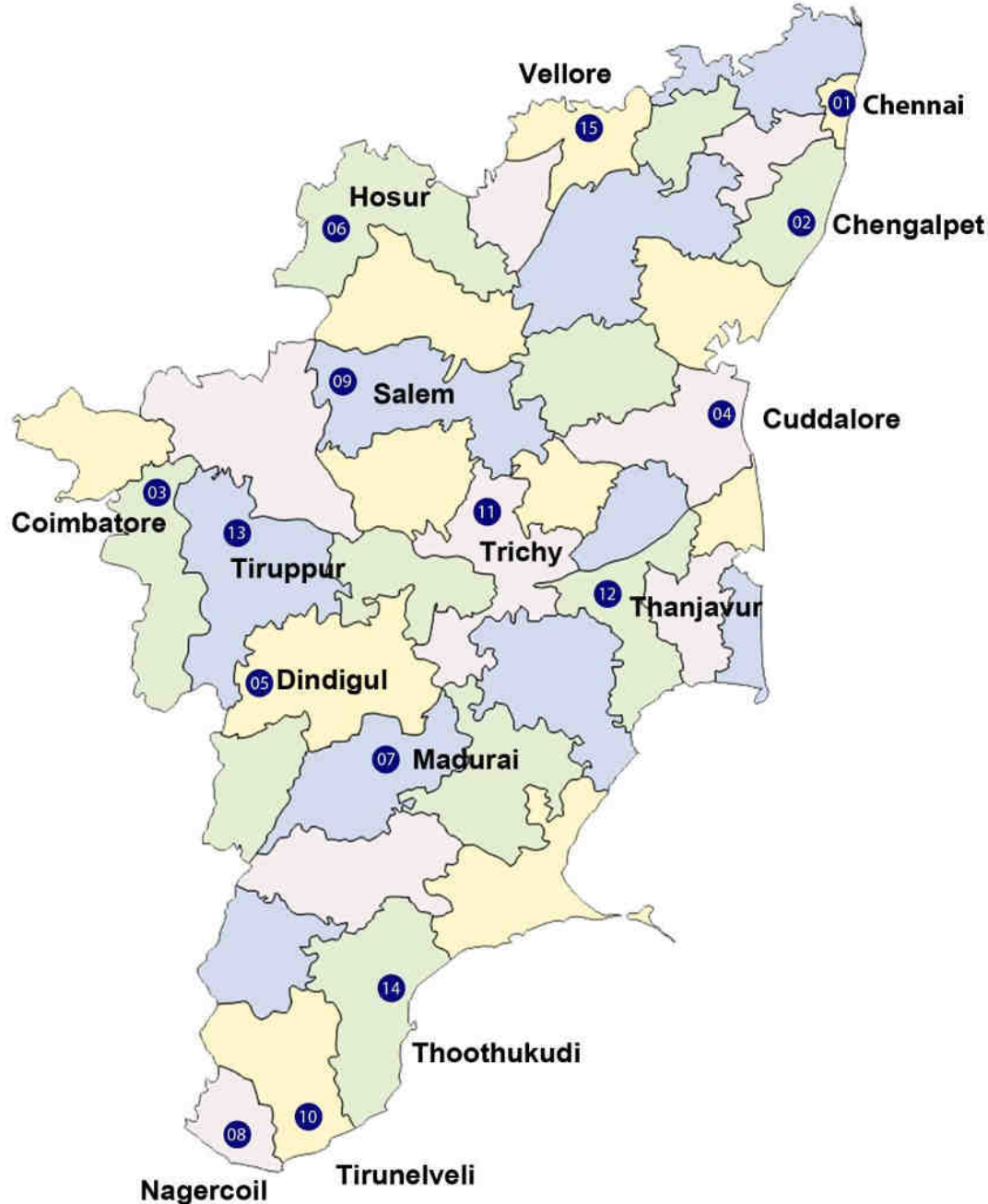


## Monitoring Locations in Chennai – Map





## Monitoring Locations distributed in 15 cities across the state of Tamil Nadu – Map



Name of the City	No. of stations	AAQ Stations
1. Chennai	1	Besant Nagar
	2	T.Nagar
	3	Nungambakkam
	4	Triplicane
	5	Sowcarpet
	6	Valasaravakkam
	7	Tiruvottiyur
2. Chengalpet	8	Maraimalainagar
	9	New Perungalathur
3. Coimbatore	10	Kavundampalayam
	11	District Collectorate
4. Cuddalore	12	Imperial Road
	13	Velva Nagar
5. Dindigul	14	Nagal Pudur
	15	Rajagopal Iyyangar
6. Hosur	16	Municipal Corporation Office
	17	Kamaraj Nagar High School
7. Madurai	18	Thirunagar
	19	Birla Vishram
8. Nagercoil	20	Water Tank Road
	21	Scott Christian College
9. Salem	22	Sri Saradha Balamandhir Boys Matric Hr. Sec. School
	23	Siva Tower
10. Tirunelveli	24	Tirunelveli Town
	25	Pettai
11. Trichy	26	Ramalinga Nagar
	27	Gandhi Park
12. Thanjavur	28	A. Arokkiya Nagar
	29	Karunavathi Nagar
13. Tiruppur	30	Kumaran Complex
	31	Rayapuram
14. Thoothukudi	32	Rajiv Nagar
	33	Celseeni Colony
	34	Gandhi Nagar
15. Vellore	34	Gandhi Nagar
	35	Sidco Industrial Estate

## Inference of Deepavali Report – 2023 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 (12.11.2023) for bursting crackers.

This year, Deepavali festival was celebrated on 12<sup>th</sup> of November 2023 (Sunday) in Tamil Nadu, and hence as per the CPCB directions, ambient air quality monitoring was carried out for consecutive 15 days commencing from 05.11.2023 to 19.11.2023 and Noise Level (NL) Survey on Pre-Deepavali day (06.11.2023, Monday) and Deepavali day (12.11.2023, Sunday).

The inferences drawn from the monitoring of ambient noise (table-I) and air quality monitoring (table-II) during Deepavali 2023 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 (06.11.2023)	Deepavali Day (12.11.2023)
		Leq dB(A)	Leq dB(A)
1	Chennai	58.7	73.3
2	Chengalpet	55.0	<b>77.6</b>
3	Coimbatore	58.2	69.4
4	Cuddalore	67.2	74.3
5	Dindigul	71.7	85.1
6	Hosur	64.8	78.2
7	Madurai	59.8	75.1
8	Nagercoil	51.8	64.6

9	Salem	55.2	69.8
10	Tirunelveli	59.4	70.8
11	Trichy	65.0	82.8
12	Thanjavur	56.8	75
13	Tiruppur	51.8	62.1
14	Thoothukudi	56.5	70.6
15	Vellore	60.0	63.3
<b>Ambient air quality standards for noise level</b>			
<b>Category of Area/ Zone</b>		<b>Leq dB(A) Night time</b>	
<b>Industrial Area</b>		<b>70</b>	
<b>Commercial Area</b>		<b>55</b>	
<b>Residential Area</b>		<b>45</b>	
<b>Sensitive Zone</b>		<b>40</b>	

TNPCB carried out noise monitoring in 15 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 51.8 to 71.7 dBA on Pre- Deepavali day and from 62.1 to 85.1 dBA on Deepavali day. It is evidently seen that, noise pollution has crossed safe limits in all the stations.

During the night time, the highest increase of 29 per cent was recorded in Chengalpeta where 77.6 Decibel (dB) of sound was recorded this year.

## B. Ambient Air Quality Monitoring

Table – II

Sl. No.	Locations	Pre Deepavali Days 05.11.2023 to 11.11.2023				Deepavali Day - 12.11.2023					Post Deepavali Days 13.11.2023 to 19.11.2023				
		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	AQI	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	
<b>I</b>	<b>Chennai city</b>														
1	Besant Nagar ( R )	54	20	9	18	222	92	15	<b>207</b>	<b>P</b>	28	53	23	9	20
2	T.Nagar ( C )	77	30	15	25	211	128	19	<b>306</b>	<b>VP</b>	27	71	31	14	25
3	Nungambakka m ( R )	52	20	12	23	260	203	24	<b>364</b>	<b>VP</b>	38	62	26	11	21
4	Triplicane ( R )	58	29	14	23	160	106	22	<b>253</b>	<b>P</b>	33	57	23	11	21
5	Sowcarpet (M)	68	25	14	23	191	167	18	<b>336</b>	<b>VP</b>	26	56	22	10	19
6	Valasaravakka m (R)	79	28	15	23	379	204	17	<b>365</b>	<b>VP</b>	27	76	28	13	25
7	Tiruvottiyur (C)	61	24	11	21	145	98	18	<b>227</b>	<b>P</b>	31	50	21	10	19
	<b>Major towns</b>														
<b>II</b>	<b>Chengalpet</b>														
8	Maraimalainagar ( R )	41	38	10	11	153	112	18	<b>273</b>	<b>P</b>	49	45	26	12	15
9	New Perungalathur (R)	48	18	12	11	194	118	17	<b>293</b>	<b>P</b>	51	42	21	11	14
<b>III</b>	<b>Coimbatore</b>														
10	Kavundampalaya m R)	54	29	8	18	155	86	21	<b>187</b>	<b>M</b>	39	60	27	7	15
11	District Collectorate (C)	53	27	8	19	196	89	18	<b>197</b>	<b>M</b>	31	67	31	7	16
<b>IV</b>	<b>Cuddalore</b>														
12	Imperial Road ( C )	83	20	20	30	284	83	31	<b>234</b>	<b>P</b>	49	98	34	19	27
13	Velva Nagar (R)	28	10	11	17	199	53	26	<b>166</b>	<b>M</b>	31	50	17	14	19

<b>V</b>	<b>Dindigul</b>														
14	Nagal Pudur ( R )	32	13	9	14	64	27	19	<b>64</b>	<b>S</b>	26	37	14	11	16
15	Rajagopal Iyyangar & Sons ( C )	50	21	13	17	98	42	24	<b>98</b>	<b>S</b>	31	58	25	14	20
<b>VI</b>	<b>Hosur</b>														
16	Municipal Corporation Office	52	18	16	21	124	31	17	<b>116</b>	<b>M</b>	27	58	24	16	21
17	Kamaraj Nagar High School	44	17	16	22	154	48	19	<b>136</b>	<b>M</b>	31	70	25	17	22
<b>VII</b>	<b>Madurai</b>														
18	Thirunagar (R)	59	16	21	33	247	51	72	<b>247</b>	<b>P</b>	90	92	12	20	34
19	Birla Vishram ( M )	48	11	17	25	153	29	45	<b>153</b>	<b>M</b>	74	68	39	17	30
<b>VIII</b>	<b>Salem</b>														
20	Sri Saradha Balamandhir Boys Matric Hr.Sec. School (R)	45	18	7	13	169	50	25	<b>169</b>	<b>M</b>	51	57	19	10	17
21	Siva Tower ( C&I )	49	20	10	22	148	40	23	<b>148</b>	<b>M</b>	47	54	23	12	24
<b>IX</b>	<b>Tirunelveli</b>														
22	Tirunelveli Town ( R )	54	25	12	18	100	36	18	<b>100</b>	<b>S</b>	22	62	27	13	19
23	Pettai ( S )	67	28	13	19	110	39	19	<b>110</b>	<b>M</b>	24	69	29	14	20
<b>X</b>	<b>Tirunelveli - Nagercoil</b>														
24	Water Tank Road (M)	63	27	13	18	108	38	18	<b>107</b>	<b>M</b>	23	66	27	14	20
25	Scott Christian College (R)	54	22	12	18	93	33	17	<b>93</b>	<b>S</b>	21	58	25	12	18
<b>XI</b>	<b>Trichy</b>														
26	Ramalinga Nagar ( R )	43	15	12	15	103	52	19	<b>102</b>	<b>M</b>	25	49	17	13	17
27	Gandhi Park ( C )	44	16	14	17	125	62	21	<b>117</b>	<b>M</b>	25	48	17	14	18
<b>XII</b>	<b>Trichy - Thanjavur</b>														
28	Arokkiya Nagar ( R )	39	14	12	15	98	46	183	<b>98</b>	<b>S</b>	21	41	13	13	17
29	Teachers colony (M)	42	16	13	16	104	49	20	<b>103</b>	<b>M</b>	24	40	13	13	16

<b>XIII</b>	<b>Tiruppur</b>														
30	Kumaran Complex ( C )	68	31	8	7	86	45	10	<b>86</b>	<b>S</b>	5	70	32	12	9
31	Rayapuram ( R )	69	24	7	6	161	42	15	<b>141</b>	<b>M</b>	9	108	31	12	6
<b>XIV</b>	<b>Thoothukudi</b>														
32	Rajiv Nagar ( R )	43	31	8	7	86	45	10	<b>185</b>	<b>M</b>	5	70	32	12	9
33	Celseeni Colony ( R )	55	18	10	14	216	82	20	<b>177</b>	<b>M</b>	24	57	15	12	15
<b>XV</b>	<b>Vellore</b>														
34	Gandhi Nagar ( R )	44	18	8	12	169	65	11	<b>146</b>	<b>M</b>	30	52	30	8	14
35	Sidco Industrial Estate( I )	47	18	10	14	130	27	11	<b>120</b>	<b>M</b>	17	51	23	9	13
	<b>NAAQ Standards</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>100</b>	<b>60</b>	<b>80</b>	-		<b>80</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

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 35 locations revealed that, except for 6 stations that fall under Satisfactory category (AQI – 51 to 100) and 18 stations that fall under moderate category (AQI – 101-200), all locations fall under either poor (7 nos.; AQI – 201- 300) or very poor category (4 nos.; AQI – 301- 400).

The status of air quality (AQI) in non-attainment cities Chennai, Trichy, and Thoothukudi have ameliorated this year from it's past records of AQI, whereas, the NCAP city Madurai, the air quality has minimally deteriorated though the AQI fall under moderate category as previous year.