

**Monitoring of Ambient Air and Noise**  
**during Deepavali Festival 2021**

**AAQ/ANL Monitoring**

**From 28.10.2021 to 11.11.2021**



**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 2021**

AAQ/ANL/ Monitoring from 28.10.2021 to 11.11.2021  
DEEPAVALI DAY : 04.11.2021

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## Deepavali Monitoring 2021

### Chennai

#### City:

- Latitude & Longitude : 13°08'27"N 80°27'07"E
- Climate / Meteorology :  
Pre-Deepavali : Drizzling with partially cloudy weather  
Deepavali Day : Cloudy/ Raining frequently
- Population : 78.8 million (approx) as on 2021
- 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)

#### **Ambient Air quality Survey**

Besant Nagar (R)

T. Nagar (C)

Nungambakkam (R)

Triplicane (R)

Sowcarpet (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 - 2021**

**CHENNAI**

Location: <b>Besant Nagar (R)</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	49.6	80.6	59.4	59.4	101.2	80.7
19:00 to 20:00 Hr	50.0	85.0	60.3	54.6	92.1	80.5
20:00 to 21:00 Hr	50.2	79.1	56.2	50.4	79.2	76.5
21:00 to 22:00 Hr	52.1	86.3	54.3	50.0	67.6	70.0
22:00 to 23:00 Hr	48.3	77.2	52.1	50.0	67.3	66.1
23:00 to 24:00 Hr	47.9	70.6	50.3	48.9	65.1	63.6

Location: <b>T. Nagar (C)</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	55.6	91.2	68.7	50.2	103.7	74.9
19:00 to 20:00 Hr	56.2	92.2	69.7	56.5	110.2	83.8
20:00 to 21:00 Hr	55.6	87.2	69.1	55.1	109.3	86.3
21:00 to 22:00 Hr	52.3	88.9	66.3	53.2	105.7	83.2
22:00 to 23:00 Hr	50.9	86.9	62.1	56.1	100.4	75.3
23:00 to 24:00 Hr	46.2	85.5	60.0	56.6	95.0	69.0

Location: <b>Nungambakkam (R)</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	49.2	90.0	64.5	54.8	106.5	80.0
19:00 to 20:00 Hr	51.2	86.8	64.4	57.8	107.5	80.5
20:00 to 21:00 Hr	51.9	85.9	64.1	56.4	102.2	78.4
21:00 to 22:00 Hr	54.5	77.5	62.9	49.4	100.9	72.6
22:00 to 23:00 Hr	53.7	85.8	54.4	56.6	98.4	70.5
23:00 to 24:00 Hr	43.7	87.6	49.3	56.8	92.3	64.8



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2021**  
**CHENNAI**

Location: <b>Triplicane (R )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	48.8	76.7	52.8	50.6	107.1	82.3
19:00 to 20:00 Hr	48.4	80.7	57.2	55.0	106.1	78.6
20:00 to 21:00 Hr	46.8	95.2	59.0	51.2	104.9	68.3
21:00 to 22:00 Hr	46.1	81.7	57.2	48.6	107.8	65.8
22:00 to 23:00 Hr	45.3	71.4	56.1	45.3	103.8	60.8
23:00 to 24:00 Hr	43.2	69.3	53.6	45.5	91.7	58.8

Location: <b>Sowcarpet (C )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	59.4	74.6	62.3	65.2	84.9	75.2
19:00 to 20:00 Hr	59.0	71.3	61.4	55.6	104.3	79.5
20:00 to 21:00 Hr	55.8	65.6	58.4	57.1	102.9	79.1
21:00 to 22:00 Hr	54.2	64.3	57.1	56.7	101.1	77.3
22:00 to 23:00 Hr	55.9	85.6	67.5	55.0	74.1	65.1
23:00 to 24:00 Hr	52.0	63.4	55.2	51.6	66.3	57.0





**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from**  
**28.10.2021 to 11.11.2021**

Annexure - V

**CHENNAI**

Name of the location: <b>Besant Nagar ( R )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	AQI
28.10.2021	8.0	10.0	72.0	38.0	72.0
29.10.2021	7.0	19.0	41.0	13.0	41.0
30.10.2021	8.0	21.0	42.0	22.0	42.0
31.10.2021	7.0	20.0	42.0	17.0	42.0
01.11.2021	9.0	17.0	30.0	10.0	30.0
02.11.2021	6.0	19.0	36.0	12.0	36.0
03.11.2021	9.0	20.0	48.0	23.0	48.0
<b>Avg</b>	<b>7.7</b>	<b>18.0</b>	<b>44.4</b>	<b>19.3</b>	
<b>04.11.2021</b>	<b>12.0</b>	<b>26.0</b>	<b>187.0</b>	<b>175.0</b>	<b>342.0</b>
05.11.2021	10.0	21.0	89.0	33.0	89.0
06.11.2021	9.0	18.0	38.0	20.0	38.0
07.11.2021	Due to heavy rain				
08.11.2021	Due to heavy rain				
09.11.2021	11.0	15.0	22.0	10.0	22.0
10.11.2021	Due to heavy rain				
11.11.2021	Due to heavy rain				
<b>Avg</b>	<b>10.0</b>	<b>18.0</b>	<b>49.7</b>	<b>21.0</b>	<b>49.7</b>
* All Values (24 hourly Average) are in ( $\mu\text{g}/\text{m}^3$ )					



**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from**  
**28.10.2021 to 11.11.2021**

Annexure - V

**CHENNAI**

Name of the location: <b>T. Nagar ( C )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	AQI
28.10.2021	9.0	12.0	88.0	52.0	88.0
29.10.2021	10.0	21.0	56.0	25.0	56.0
30.10.2021	11.0	25.0	51.0	25.0	51.0
31.10.2021	10.0	24.0	50.0	22.0	50.0
01.11.2021	8.0	18.0	36.0	20.0	36.0
02.11.2021	10.0	22.0	42.0	20.0	42.0
03.11.2021	11.0	24.0	66.0	34.0	66.0
<b>Avg</b>	<b>9.9</b>	<b>20.9</b>	<b>55.6</b>	<b>28.3</b>	
<b>04.11.2021</b>	<b>13.0</b>	<b>28.0</b>	<b>280.0</b>	<b>231.0</b>	<b>385.0</b>
05.11.2021	11.0	24.0	92.0	40.0	92.0
06.11.2021	9.0	23.0	46.0	20.0	46.0
07.11.2021	10.0	9.0	27.0	10.0	27.0
08.11.2021	Due to heavy rain				
09.11.2021	10.0	17.0	30.0	16.0	30.0
10.11.2021	4.0	9.0	19.0	9.0	19.0
11.11.2021	Due to heavy rain				
<b>Avg</b>	<b>8.8</b>	<b>16.4</b>	<b>42.8</b>	<b>19.0</b>	

\* All Values (24 hourly Average) are in ( $\mu\text{g}/\text{m}^3$ )



**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from**  
**28.10.2021 to 11.11.2021**

Annexure - V

**CHENNAI**

Name of the location: <b>Nungambakkam ( R )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	AQI
28.10.2021	9.0	11.0	71.0	42.0	71.0
29.10.2021	9.0	22.0	51.0	20.0	51.0
30.10.2021	9.0	22.0	48.0	20.0	48.0
31.10.2021	9.0	21.0	49.0	20.0	49.0
01.11.2021	9.0	16.0	34.0	18.0	34.0
02.11.2021	8.0	20.0	38.0	15.0	38.0
03.11.2021	10.0	22.0	55.0	25.0	55.0
<b>Avg</b>	<b>9.0</b>	<b>19.1</b>	<b>49.4</b>	<b>22.9</b>	
<b>04.11.2021</b>	<b>11.0</b>	<b>26.0</b>	<b>283.0</b>	<b>210.0</b>	<b>369.0</b>
05.11.2021	10.0	22.0	81.0	35.0	91.0
06.11.2021	10.0	20.0	40.0	22.0	40.0
07.11.2021	7.0	12.0	19.0	11.0	19.0
08.11.2021	Due to heavy rain				
09.11.2021	9.0	14.0	26.0	15.0	26.0
10.11.2021	7.0	10.0	17.0	8.0	17.0
11.11.2021	Due to heavy rain				
<b>Avg</b>	<b>8.6</b>	<b>15.6</b>	<b>36.6</b>	<b>18.2</b>	

\* All Values (24 hourly Average) are in ( $\mu\text{g}/\text{m}^3$ )



**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from**  
**28.10.2021 to 11.11.2021**

Annexure - V

**CHENNAI**

Name of the location: <b>Triplicane ( 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
28.10.2021	8.0	11.0	70.0	43.0	70.0
29.10.2021	8.0	21.0	52.0	17.0	52.0
30.10.2021	9.0	20.0	46.0	16.0	46.0
31.10.2021	9.0	19.0	44.0	18.0	44.0
01.11.2021	8.0	19.0	35.0	20.0	35.0
02.11.2021	10.0	18.0	39.0	19.0	39.0
03.11.2021	10.0	21.0	51.0	22.0	51.0
<b>Avg</b>	<b>8.9</b>	<b>18.4</b>	<b>48.1</b>	<b>22.1</b>	
<b>04.11.2021</b>	<b>14.0</b>	<b>26.0</b>	<b>267.0</b>	<b>222.0</b>	<b>378.0</b>
05.11.2021	12.0	22.0	94.0	43.0	94.0
06.11.2021	12.0	22.0	41.0	20.0	41.0
07.11.2021	9.0	12.0	21.0	11.0	21.0
08.11.2021	Due to heavy rain				
09.11.2021	9.0	17.0	29.0	13.0	26.0
10.11.2021	6.0	9.0	15.0	8.0	15.0
11.11.2021	Due to heavy rain				
<b>Avg</b>	<b>9.6</b>	<b>16.4</b>	<b>40.0</b>	<b>19.0</b>	

\* 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**  
**28.10.2021 to 11.11.2021**

Annexure - V

**CHENNAI**

Name of the location: <b>Sowcarpet ( 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
28.10.2021	12.0	13.0	88.0	51.0	88.0
29.10.2021	10.0	24.0	60.0	31.0	60.0
30.10.2021	12.0	23.0	58.0	26.0	58.0
31.10.2021	13.0	24.0	52.0	22.0	52.0
01.11.2021	10.0	20.0	40.0	22.0	40.0
02.11.2021	11.0	24.0	48.0	23.0	48.0
03.11.2021	12.0	26.0	59.0	30.0	59.0
<b>Avg</b>	<b>11.4</b>	<b>22.0</b>	<b>57.9</b>	<b>29.3</b>	
<b>04.11.2021</b>	<b>17.0</b>	<b>31.0</b>	<b>268.0</b>	<b>212.0</b>	<b>371.0</b>
05.11.2021	13.0	24.0	92.0	37.0	92.0
06.11.2021	12.0	19.0	42.0	25.0	42.0
07.11.2021	10.0	16.0	25.0	12.0	25.0
08.11.2021	Due to heavy rain				
09.11.2021	8.0	14.0	25.0	12.0	25.0
10.11.2021	9.0	11.0	18.0	10.0	18.0
11.11.2021	Due to heavy rain				
<b>Avg</b>	<b>10.4</b>	<b>16.8</b>	<b>40.4</b>	<b>19.2</b>	

\* 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**  
**28.10.2021 to 11.11.2021**

Annexure - V

**CHENNAI**

Name of the location: <b>Besant Nagar ( R )</b>						
Date	Metals in PM <sub>10</sub>			Proposed New Parameters Metals/ Elements in PM <sub>2.5</sub>		
	Pb ( $\mu\text{g}/\text{m}^3$ )	Ni (ng/m <sup>3</sup> )	As (ng/m <sup>3</sup> )	Al ( $\mu\text{g}/\text{m}^3$ )	Ba ( $\mu\text{g}/\text{m}^3$ )	Fe ( $\mu\text{g}/\text{m}^3$ )
	28.10.2021	0.01	3.95	BLQ	BLQ	BLQ
29.10.2021	0.01	4.03	BLQ	BLQ	BLQ	BLQ
30.10.2021	0.02	4.27	BLQ	BLQ	BLQ	BLQ
31.10.2021	0.01	3.63	BLQ	BLQ	BLQ	BLQ
01.11.2021	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
02.11.2021	0.03	2.83	BLQ	BLQ	BLQ	BLQ
03.11.2021	0.02	7.50	BLQ	5.63	11.41	BLQ
<b>04.11.2021</b>	<b>2.77</b>	<b>20.49</b>	<b>6.70</b>	<b>376.07</b>	<b>351.56</b>	<b>22.42</b>
05.11.2021	0.10	8.59	4.00	16.25	32.41	10.41
06.11.2021	0.06	6.54	BLQ	4.24	3.48	2.32
07.11.2021	Station Shutdown due to heavy rain and power failure					
08.11.2021	Station Shutdown due to heavy rain and power failure					
09.11.2021	0.09	BLQ	BLQ	BLQ	BLQ	BLQ
10.11.2021	Station Shutdown due to heavy rain and power failure					
11.11.2021	Station Shutdown due to heavy rain and power failure					

\* All Values (24 hourly Average) are in ( $\mu\text{g}/\text{m}^3$ ) and (ng/m<sup>3</sup>)

BLQ - Below Limit of Quantification



**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from**  
**28.10.2021 to 11.11.2021**

Annexure - V

**CHENNAI**

Name of the location: <b>T. Nagar ( C )</b>						
Date	Metals in PM <sub>10</sub>			Proposed New Parameters Metals/ Elements in PM <sub>2.5</sub>		
	Pb ( $\mu\text{g}/\text{m}^3$ )	Ni (ng/m <sup>3</sup> )	As (ng/m <sup>3</sup> )	Al ( $\mu\text{g}/\text{m}^3$ )	Ba ( $\mu\text{g}/\text{m}^3$ )	Fe ( $\mu\text{g}/\text{m}^3$ )
	28.10.2021	0.01	2.66	BLQ	BLQ	BLQ
29.10.2021	0.01	2.75	BLQ	BLQ	BLQ	BLQ
30.10.2021	0.01	3.48	BLQ	BLQ	BLQ	BLQ
31.10.2021	0.02	5.67	BLQ	BLQ	BLQ	3.84
01.11.2021	0.01	3.85	BLQ	BLQ	BLQ	BLQ
02.11.2021	0.04	5.54	BLQ	BLQ	BLQ	BLQ
03.11.2021	0.02	6.83	4.0	11.65	9.81	BLQ
<b>04.11.2021</b>	<b>2.62</b>	<b>14.28</b>	<b>5.4</b>	<b>232.73</b>	<b>206.64</b>	<b>11.25</b>
05.11.2021	0.14	10.28	3.5	14.33	25.44	8.72
06.11.2021	0.04	2.80	BLQ	4.48	BLQ	2.01
07.11.2021	0.01	2.23	BLQ	BLQ	BLQ	BLQ
08.11.2021	Station Shutdown due to heavy rain and power failure					
09.11.2021	0.02	BLQ	BLQ	BLQ	BLQ	BLQ
10.11.2021	0.07	BLQ	BLQ	BLQ	BLQ	BLQ
11.11.2021	Station Shutdown due to heavy rain and power failure					

\* All Values (24 hourly Average) are in ( $\mu\text{g}/\text{m}^3$ ) and (ng/m<sup>3</sup>)

BLQ - Below Limit of Quantification



**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from**  
**28.10.2021 to 11.11.2021**

Annexure - V

**CHENNAI**

Name of the location: <b>Nungambakkam ( R )</b>						
Date	Metals in PM <sub>10</sub>			Proposed New Parameters Metals/ Elements in PM <sub>2.5</sub>		
	Pb ( $\mu\text{g}/\text{m}^3$ )	Ni (ng/m <sup>3</sup> )	As (ng/m <sup>3</sup> )	Al ( $\mu\text{g}/\text{m}^3$ )	Ba ( $\mu\text{g}/\text{m}^3$ )	Fe ( $\mu\text{g}/\text{m}^3$ )
	28.10.2021	0.01	3.08	BLQ	BLQ	BLQ
29.10.2021	0.01	BLQ	BLQ	BLQ	BLQ	BLQ
30.10.2021	0.03	5.43	BLQ	BLQ	BLQ	BLQ
31.10.2021	0.02	7.18	BLQ	BLQ	BLQ	BLQ
01.11.2021	0.01	5.49	BLQ	BLQ	BLQ	BLQ
02.11.2021	0.01	6.20	2.9	BLQ	BLQ	BLQ
03.11.2021	0.04	7.65	4.3	25.47	8.62	5.32
<b>04.11.2021</b>	<b>4.08</b>	<b>15.09</b>	<b>5.9</b>	<b>359.05</b>	<b>325.26</b>	<b>15.39</b>
05.11.2021	0.14	8.00	BLQ	12.63	28.31	5.61
06.11.2021	0.05	3.85	BLQ	3.52	BLQ	3.96
07.11.2021	0.02	3.82	BLQ	BLQ	BLQ	BLQ
08.11.2021	Station Shutdown due to heavy rain and power failure					
09.11.2021	0.02	3.88	BLQ	BLQ	BLQ	BLQ
10.11.2021	0.05	2.43	BLQ	BLQ	BLQ	BLQ
11.11.2021	Station Shutdown due to heavy rain and power failure					

\* All Values (24 hourly Average) are in ( $\mu\text{g}/\text{m}^3$ ) and (ng/m<sup>3</sup>)

BLQ - Below Limit of Quantification





**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from**  
**28.10.2021 to 11.11.2021**

Annexure - V

**CHENNAI**

Name of the location: <b>Triplicane ( R )</b>						
Date	Metals in PM <sub>10</sub>			Proposed New Parameters Metals/ Elements in PM <sub>2.5</sub>		
	Pb ( $\mu\text{g}/\text{m}^3$ )	Ni (ng/m <sup>3</sup> )	As (ng/m <sup>3</sup> )	Al ( $\mu\text{g}/\text{m}^3$ )	Ba ( $\mu\text{g}/\text{m}^3$ )	Fe ( $\mu\text{g}/\text{m}^3$ )
	28.10.2021	0.01	4.27	BLQ	BLQ	BLQ
29.10.2021	0.01	4.19	BLQ	BLQ	BLQ	BLQ
30.10.2021	0.01	3.76	BLQ	BLQ	BLQ	BLQ
31.10.2021	0.03	6.01	BLQ	BLQ	BLQ	3.68
01.11.2021	0.02	5.66	BLQ	BLQ	BLQ	BLQ
02.11.2021	BLQ	BLQ	BLQ	BLQ	5.41	BLQ
03.11.2021	0.08	4.24	5.8	10.32	12.18	BLQ
<b>04.11.2021</b>	<b>2.26</b>	<b>15.33</b>	<b>6.5</b>	<b>334.41</b>	<b>305.77</b>	<b>13.24</b>
05.11.2021	0.11	7.94	2.7	8.41	21.22	4.21
06.11.2021	0.03	3.63	2.9	BLQ	BLQ	BLQ
07.11.2021	0.03	2.27	BLQ	BLQ	BLQ	BLQ
08.11.2021	Station Shutdown due to heavy rain and power failure					
09.11.2021	0.02	3.50	BLQ	BLQ	BLQ	BLQ
10.11.2021	0.03	3.97	BLQ	BLQ	BLQ	BLQ
11.11.2021	Station Shutdown due to heavy rain and power failure					

\* All Values (24 hourly Average) are in ( $\mu\text{g}/\text{m}^3$ ) and (ng/m<sup>3</sup>)

BLQ - Below Limit of Quantification



**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from**  
**28.10.2021 to 11.11.2021**

Annexure - V

**CHENNAI**

Name of the location: <b>Sowcarpet ( C )</b>						
Date	Metals in PM <sub>10</sub>			Proposed New Parameters Metals/ Elements in PM <sub>2.5</sub>		
	Pb ( $\mu\text{g}/\text{m}^3$ )	Ni ( $\text{ng}/\text{m}^3$ )	As ( $\text{ng}/\text{m}^3$ )	Al ( $\mu\text{g}/\text{m}^3$ )	Ba ( $\mu\text{g}/\text{m}^3$ )	Fe ( $\mu\text{g}/\text{m}^3$ )
	28.10.2021	0.01	1.35	BLQ	BLQ	BLQ
29.10.2021	0.01	BLQ	BLQ	BLQ	BLQ	BLQ
30.10.2021	0.03	5.49	BLQ	BLQ	BLQ	BLQ
31.10.2021	0.02	5.23	BLQ	BLQ	BLQ	BLQ
01.11.2021	0.04	3.76	BLQ	BLQ	BLQ	BLQ
02.11.2021	0.01	4.89	BLQ	BLQ	BLQ	BLQ
03.11.2021	0.14	13.32	6.2	32.64	28.6	7.41
<b>04.11.2021</b>	<b>3.75</b>	<b>16.15</b>	<b>7.4</b>	<b>481.35</b>	<b>473.78</b>	<b>21.21</b>
05.11.2021	0.11	6.02	BLQ	10.41	30.96	11.41
06.11.2021	0.10	4.10	BLQ	2.12	BLQ	4.11
07.11.2021	0.03	BLQ	BLQ	BLQ	BLQ	BLQ
08.11.2021	Station Shutdown due to heavy rain and power failure					
09.11.2021	0.07	4.28	BLQ	BLQ	BLQ	BLQ
10.11.2021	0.02	4.67	BLQ	BLQ	BLQ	BLQ
11.11.2021	Station Shutdown due to heavy rain and power failure					

\* All Values (24 hourly Average) are in ( $\mu\text{g}/\text{m}^3$ ) and ( $\text{ng}/\text{m}^3$ )

BLQ - Below Limit of Quantification



## Deepavali Monitoring 2021

### Chengalpet

#### City:

- Latitude & Longitude : 12°03'11"N 80°12'13"E
- Climate / Meteorology :  
Pre-Deepavali : Tropical  
Deepavali Day
- Population : 1,74,787 lakhs
- 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**  
Tambaram ( C )  
**Ambient Air quality Survey**  
Tambaram ( 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 - 2021**

**CHENGALPET**

Location: <b>Tambaram (C)</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	50.7	64.2	53.8	55.3	104.0	78.3
19:00 to 20:00 Hr	45.5	67.1	55.0	58.2	104.1	77.0
20:00 to 21:00 Hr	43.7	70.4	65.5	55.7	105.0	75.1
21:00 to 22:00 Hr	45.7	68.6	55.2	51.8	95.2	66.4
22:00 to 23:00 Hr	47.2	84.3	54.0	51.8	90.6	62.9
23:00 to 24:00 Hr	47.3	76.5	55.7	47.5	91.4	60.3



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2021**

**HOSUR**

Location: <b>INEL Transit House (R)</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	54.2	82.2	64.5	51.0	110.0	79.0
19:00 to 20:00 Hr	50.9	81.6	59.9	53.1	104.3	78.1
20:00 to 21:00 Hr	48.8	88.9	64.0	51.7	103.3	79.1
21:00 to 22:00 Hr	51.0	62.3	53.4	51.3	96.8	71.2
22:00 to 23:00 Hr	51.4	61.7	54.9	50.3	88.2	60.9
23:00 to 24:00 Hr	50.2	56.4	52.3	49.8	61.2	53.7

Location: <b>ESI Hospital (S)</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	59.3	76.9	65.0	55.0	93.2	66.8
19:00 to 20:00 Hr	55.3	68.5	59.9	56.4	93.1	69.9
20:00 to 21:00 Hr	57.4	81.0	68.1	53.0	91.9	64.6
21:00 to 22:00 Hr	56.0	62.1	59.0	50.3	82.2	60.2
22:00 to 23:00 Hr	56.0	76.1	62.1	51.8	71.1	61.1
23:00 to 24:00 Hr	57.5	74.4	63.8	49.0	76.8	60.4



**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from**  
**28.10.2021 to 11.11.2021**

Annexure - V

**CHENGALPET**

Name of the location: <b>Tambaram ( 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
28.10.2021	7.8	12.8	57.7	15.6	58.0
29.10.2021	9.9	13.1	61.1	17.7	61.0
30.10.2021	9.6	13.8	49.1	26.4	49.0
31.10.2021	10.6	12.7	42.0	21.5	42.0
01.11.2021	10.0	11.5	40.7	22.1	41.0
02.11.2021	10.0	11.4	50.9	13.2	51.0
03.11.2021	12.2	13.6	92.8	28.1	93.0
<b>Avg</b>	<b>10.0</b>	<b>12.7</b>	<b>56.3</b>	<b>20.6</b>	
<b>04.11.2021</b>	<b>23.6</b>	<b>30.2</b>	<b>265.9</b>	<b>85.9</b>	<b>216.0</b>
05.11.2021	10.7	12.2	60.1	14.4	60.0
06.11.2021	8.8	9.3	47.4	20.3	47.0
07.11.2021	Rain				
08.11.2021	Rain				
09.11.2021	6.0	3.6	32.3	9.5	32.0
10.11.2021	Rain				
11.11.2021	Rain				
<b>Avg</b>	<b>8.5</b>	<b>8.4</b>	<b>46.6</b>	<b>14.7</b>	

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







## Deepavali Monitoring 2021

### Coimbatore

#### City:

- Latitude & Longitude : 11°0'16.4016"N 76° 57'41.8752"E
- Climate / Meteorology : Partially Cloudy
- Population : More than 1 Million
- 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 – Vehicle  
Movements/No Crackers  
burst.  
Deepavali - Crackers Noise  
with Vehicle Movements.





**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2021**

**COIMBATORE**

Location: <b>Kavundampalayam (R )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	53.1	92.9	64.5	55.4	108.5	79.6
19:00 to 20:00 Hr	51.2	96.2	66.3	53.1	101.6	78.8
20:00 to 21:00 Hr	52.5	85.1	65.1	51.3	104.9	76.0
21:00 to 22:00 Hr	50.8	89.3	61.8	50.8	104.9	72.3
22:00 to 23:00 Hr	50.4	82.1	60.0	50.4	99.8	73.4
23:00 to 24:00 Hr	50.4	82.1	58.3	50.1	91.9	62.2

Location: <b>District Collectorate (M)</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	52.0	83.8	62.9	47.9	95.2	64.3
19:00 to 20:00 Hr	50.1	80.6	61.3	53.6	100.5	70.5
20:00 to 21:00 Hr	49.1	89.7	61.3	46.6	94.2	66.5
21:00 to 22:00 Hr	48.1	97.9	60.6	51.1	88.6	58.1
22:00 to 23:00 Hr	46.9	82.1	57.5	47.5	85.1	59.6
23:00 to 24:00 Hr	45.9	78.8	54.4	45.7	93.1	66.2



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2021**

**CUDDALORE**

Location: <b>Imperial Road ( C )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	49.1	70.1	62.1	58.1	91.0	68.6
19:00 to 20:00 Hr	48.3	71.4	59.3	59.0	90.5	67.5
20:00 to 21:00 Hr	56.5	70.6	58.1	57.4	85.9	68.1
21:00 to 22:00 Hr	53.6	62.1	56.3	57.9	87.3	66.8
22:00 to 23:00 Hr	51.2	52.5	52.2	54.3	82.1	63.4
23:00 to 24:00 Hr	50.5	53.5	51.2	52.0	75.2	60.2

Location: <b>Pudupalayam(R )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	54.1	64.4	61.2	56.1	92.5	78.1
19:00 to 20:00 Hr	56.3	64.0	59.3	58.2	92.8	76.3
20:00 to 21:00 Hr	57.9	62.2	58.6	58.5	93.2	77.0
21:00 to 22:00 Hr	58.2	59.3	58.2	59.0	91.5	75.5
22:00 to 23:00 Hr	49.0	54.6	52.1	57.3	90.1	74.0
23:00 to 24:00 Hr	50.2	55.8	53.1	51.3	81.4	72.3



**Tamil Nadu Pollution Control Board**

**Ambient Air Quality data during Deepavali festival from**

**28.10.2021 to 11.11.2021**

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
28.10.2021	6.8	17.4	49.0	19.0	32.0
29.10.2021	7.8	16.9	41.0	17.0	41.0
30.10.2021	6.3	15.6	31.0	15.0	31.0
31.10.2021	5.8	16.8	23.0	11.0	23.0
01.11.2021	7.0	20.5	27.0	12.0	27.0
02.11.2021	7.6	16.9	53.0	24.0	53.0
03.11.2021	11.4	24.7	157.0	66.0	138.0
<b>Avg</b>	<b>7.5</b>	<b>18.4</b>	<b>54.4</b>	<b>23.4</b>	
<b>04.11.2021</b>	<b>13.7</b>	<b>26.5</b>	<b>209.0</b>	<b>78.0</b>	<b>173.0</b>
05.11.2021	7.4	16.7	50.0	21.0	50.0
06.11.2021	6.8	17.4	68.0	28.0	68.0
07.11.2021	6.8	17.2	60.0	23.0	60.0
08.11.2021	7.9	19.0	35.0	22.0	37.0
09.11.2021	9.2	19.0	50.0	18.0	50.0
10.11.2021	7.1	19.0	50.0	22.0	50.0
11.11.2021	7.2	19.0	52.0	19.0	52.0
<b>Avg</b>	<b>7.5</b>	<b>18.2</b>	<b>52.1</b>	<b>21.9</b>	

\* 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**  
**28.10.2021 to 11.11.2021**

Annexure - V

**COIMBATORE**

Name of the location: <b>District Collector Office (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
28.10.2021	8.2	18.5	46.0	11.0	46.0
29.10.2021	7.7	19.1	49.0	30.0	50.0
30.10.2021	7.0	17.5	52.0	23.0	52.0
31.10.2021	7.8	17.4	32.0	15.0	32.0
01.11.2021	8.4	17.9	35.0	22.0	37.0
02.11.2021	7.8	18.8	57.0	32.0	57.0
03.11.2021	12.8	28.4	124.0	50.0	116.0
<b>Avg</b>	<b>8.5</b>	<b>19.7</b>	<b>56.4</b>	<b>26.1</b>	
<b>04.11.2021</b>	<b>12.1</b>	<b>25.0</b>	<b>203.0</b>	<b>88.0</b>	<b>193.0</b>
05.11.2021	7.6	18.0	45.0	23.0	45.0
06.11.2021	7.7	18.2	47.0	19.0	47.0
07.11.2021	7.3	17.2	41.0	17.0	41.0
08.11.2021	8.0	18.5	49.0	11.0	49.0
09.11.2021	8.4	22.1	52.0	21.0	52.0
10.11.2021	8.0	23.0	50.0	30.0	50.0
11.11.2021	8.0	22.4	50.0	26.0	50.0
<b>Avg</b>	<b>7.9</b>	<b>19.9</b>	<b>47.7</b>	<b>21.0</b>	

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



## Deepavali Monitoring 2021

### Cuddalore

#### City:

- Latitude & Longitude : Imperial Road :11° 74'41.19"N & 79° 75'89.98"E  
: Pudupalayam: 11°44'50.6"N & 79°45'55.4"E
- Climate / Meteorology :During Pre Deepavali day: 28.10.2021  
Calm, Clear sky on Deepavali day: 04.11.2021  
Calm, Over cast condition
- Population :26,05,914 (2011 census)
- Major Land use :Commercial / Residential

#### Monitoring Locations:

- Map showing all monitoring locations of the city : Available
- Description of monitoring site: Area /Zone : **Noise level survey**  
(Residential, Commercial and Silence) Imperial Road (C)  
Pudupalayam (R)  
**Ambient Air quality Survey**  
Imperial Road (C)  
Pudupalayam (R)
- Activities around the monitoring location /  
Sources of Noise Pollution : The monitoring locations  
are in Residential &  
Commercial area, all type of  
vehicle movements observed.







**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from**  
**28.10.2021 to 11.11.2021**

Annexure - V

**CUDDALORE**

Name of the location: <b>Imperial Road (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
28.10.2021	16.3	24.3	49.5	21.0	50.0
29.10.2021	13.5	19.1	48.3	18.0	48.0
30.10.2021	17.0	23.0	51.3	22.0	51.0
31.10.2021	13.8	19.5	46.5	17.0	46.0
01.11.2021	19.3	23.4	52.5	20.0	52.0
02.11.2021	21.7	24.5	50.0	21.0	50.0
03.11.2021	25.8	27.8	56.1	27.0	56.0
<b>Avg</b>	<b>18.2</b>	<b>23.1</b>	<b>50.6</b>	<b>20.9</b>	
<b>04.11.2021</b>	<b>36.5</b>	<b>38.1</b>	<b>92.6</b>	<b>41.0</b>	<b>93.0</b>
05.11.2021	18.4	20.6	36.5	18.0	36.0
06.11.2021	14.5	15.8	32.5	15.0	32.0
07.11.2021	16.2	17.5	35.3	21.0	35.0
08.11.2021	Due to Heavy Rain				
09.11.2021	Due to Heavy Rain				
10.11.2021	Due to Heavy Rain				
11.11.2021	Due to Heavy Rain				
<b>Avg</b>	<b>16.4</b>	<b>18.0</b>	<b>34.8</b>	<b>18.0</b>	

\* 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**  
**28.10.2021 to 11.11.2021**

**CUDDALORE**

Annexure - V

Name of the location: <b>Pudupalayam ( 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
28.10.2021	14.2	17.6	47.7	19.0	48.0
29.10.2021	12.2	17.4	45.9	15.0	46.0
30.10.2021	15.0	21.0	48.4	20.0	49.0
31.10.2021	17.2	21.5	45.1	16.0	45.0
01.11.2021	12.0	17.5	50.4	18.0	50.0
02.11.2021	18.1	22.8	47.0	17.0	47.0
03.11.2021	22.5	24.2	54.1	24.0	54.0
<b>Avg</b>	<b>15.9</b>	<b>20.3</b>	<b>48.4</b>	<b>18.4</b>	
<b>04.11.2021</b>	<b>33.7</b>	<b>35.1</b>	<b>87.1</b>	<b>38.0</b>	<b>87.0</b>
05.11.2021	14.1	17.3	33.4	16.0	33.0
06.11.2021	12.4	15.9	30.2	14.0	30.0
07.11.2021	15.6	18.4	33.4	19.0	33.0
08.11.2021	Due to Heavy Rain				
09.11.2021	Due to Heavy Rain				
10.11.2021	Due to Heavy Rain				
11.11.2021	Due to Heavy Rain				
<b>Avg</b>	<b>14.0</b>	<b>17.2</b>	<b>32.3</b>	<b>16.3</b>	

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



## Deepavali Monitoring 2021

### Dindigul

#### City:

- Latitude & Longitude : 11.3846N and 78.0018 E
- Climate / Meteorology : Partially Cloudy with Slight Drizzling
- Population : 21,59,775 (as per census 2011)
- 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 - 2021**

**DINDIGUL**

Location: Nagal Pudur ( R )	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	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	54.7	81.4	60.8	54.9	101.0	72.4
19:00 to 20:00 Hr	52.3	81.9	57.4	55.4	103.4	79.6
20:00 to 21:00 Hr	52.1	77.4	58.5	55.2	106.4	80.0
21:00 to 22:00 Hr	36.1	91.4	57.6	47.2	99.7	68.3
22:00 to 23:00 Hr	36.1	66.0	44.1	43.4	100.3	71.6
23:00 to 24:00 Hr	35.5	63.5	43.7	37.8	99.4	72.3

Location: Rajagopal Iyengar ( C )	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	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	62.0	97.3	73.6	57.4	100.0	74.8
19:00 to 20:00 Hr	60.7	93.1	72.4	60.1	102.7	77.5
20:00 to 21:00 Hr	58.8	97.7	71.4	56.4	96.5	73.1
21:00 to 22:00 Hr	55.4	96.5	70.1	52.2	101.2	69.5
22:00 to 23:00 Hr	50.6	93.7	67.4	48.8	101.4	69.1
23:00 to 24:00 Hr	47.0	101.9	66.5	46.8	93.6	64.4



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2021**

**VELLORE**

Location: <b>Gandhi Nagar (R)</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	49.3	79.9	61.2	39.5	87.6	76.3
19:00 to 20:00 Hr	47.9	78.5	58.7	48.2	80.9	78.2
20:00 to 21:00 Hr	48.6	78.9	59.2	52.3	79.5	76.2
21:00 to 22:00 Hr	47.3	76.2	58.6	58.4	84.8	69.4
22:00 to 23:00 Hr	46.2	75.7	57.8	47.9	78.9	61.3
23:00 to 24:00 Hr	45.6	73.2	55.3	47.4	69.2	53.1

Location: <b>SIDCO Industrial Estate (I)</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	49.1	78.6	60.9	47.8	75.4	70.3
19:00 to 20:00 Hr	48.7	77.5	59.4	48.3	79.5	73.4
20:00 to 21:00 Hr	46.5	74.9	58.6	49.6	85.2	75.6
21:00 to 22:00 Hr	45.2	70.4	56.5	50.4	80.5	69.5
22:00 to 23:00 Hr	43.5	68.2	54.3	48.9	79.4	62.3
23:00 to 24:00 Hr	42.3	66.6	51.8	44.3	64.6	50.2



**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from**  
**28.10.2021 to 11.11.2021**

Annexure - V

**DINDIGUL**

Name of the location: <b>Nagal Pudur ( 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
28.10.2021	12.2	17.6	56.9	25.2	57.0
29.10.2021	11.6	16.7	66.2	27.3	66.0
30.10.2021	15.4	20.6	74.8	30.2	75.0
31.10.2021	12.6	18.3	82.4	35.2	82.0
01.11.2021	12.4	17.2	59.1	25.4	59.0
02.11.2021	14.9	20.4	52.1	22.2	52.0
03.11.2021	15.4	21.7	68.9	29.1	69.0
<b>Avg</b>	<b>13.5</b>	<b>18.9</b>	<b>65.8</b>	<b>27.8</b>	
<b>04.11.2021</b>	<b>22.4</b>	<b>28.9</b>	<b>117.2</b>	<b>42.4</b>	<b>117.0</b>
05.11.2021	19.8	25.7	102.0	35.8	101.0
06.11.2021	15.2	20.7	82.9	32.3	83.0
07.11.2021	16.2	21.9	74.6	28.9	75.0
08.11.2021	15.1	20.9	68.9	26.3	69.0
09.11.2021	14.7	20.6	62.5	22.4	62.0
10.11.2021	15.7	21.5	62.8	27.4	63.0
11.11.2021	13.2	19.6	55.5	21.3	55.0
<b>Avg</b>	<b>15.7</b>	<b>21.6</b>	<b>72.7</b>	<b>27.8</b>	

\* 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**  
**28.10.2021 to 11.11.2021**

Annexure - V

**DINDIGUL**

Name of the location: <b>Near Rajagopal Iyyangar &amp; Sons ( 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
28.10.2021	15.7	21.7	70.6	31.3	71.0
29.10.2021	14.8	20.7	78.8	32.2	79.0
30.10.2021	18.2	24.4	90.2	36.3	90.0
31.10.2021	18.2	23.7	96.8	39.2	97.0
01.11.2021	16.5	22.6	65.2	29.4	65.0
02.11.2021	17.1	23.2	64.1	26.1	64.0
03.11.2021	19.2	25.7	82.7	31.3	83.0
<b>Avg</b>	<b>17.1</b>	<b>23.1</b>	<b>78.4</b>	<b>32.2</b>	
<b>04.11.2021</b>	<b>25.9</b>	<b>32.2</b>	<b>138.0</b>	<b>48.0</b>	<b>138.0</b>
05.11.2021	22.9	29.8	121.8	47.0	115.0
06.11.2021	19.6	25.7	109.0	41.9	106.0
07.11.2021	19.9	26.1	97.4	37.2	97.0
08.11.2021	16.7	22.6	88.1	34.2	88.0
09.11.2021	18.3	24.6	82.7	31.3	83.0
10.11.2021	17.6	24.1	84.8	32.3	85.0
11.11.2021	15.7	21.7	72.0	29.4	72.0
<b>Avg</b>	<b>18.7</b>	<b>24.9</b>	<b>93.7</b>	<b>36.2</b>	

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





## Deepavali Monitoring 2021

### Hosur

#### City:

- Latitude & Longitude : 12°43'N and 77°49'E
- Climate / Meteorology : Enclosed
- Population : 4.95 lakhs (approximately)
- Major Land use : Residential & Silence

#### Monitoring Locations:

- Map showing all monitoring locations of the city : Enclosed
- Description of monitoring site: Area /Zone : **Noise level survey**  
(Residential, Commercial and Silence) INEL Transit House (R)  
ESI Hospital (S)  
**Ambient Air quality Survey**  
INEL Transit House (R)  
ESI Hospital (S)

Activities around the monitoring location /  
Sources of Noise Pollution

- : 1. The INEL Transit House: Location is situated at SIPCOT housing colony approximately 1000 peoples are residing and most of them are working in the nearby industries. 300 meters from NH-7 1 km away from SIPCOT industrial complex 100 meters from Matriculation school (ST Josph Matriculation School) 75 mts from Hospital (Krishna Hospital) 100 mts from shopping complex (Pushpa Pandian Shopping Complex) 200 mts from Dharga lake this location is west side of the SIPCOT housing colony.
- 2.ESI Hospital location is very close to NH-7 i.e 50 mts from station point 1 km from sipcot industries, with 100 Beds. This location is 200 mts from EWS Quarters and petrol bunk, and Tinny hotels, shops are available.





**Tamil Nadu Pollution Control Board**

**Ambient Air Quality data during Deepavali festival from**

**28.10.2021 to 11.11.2021**

Annexure - V

**HOSUR**

Name of the location: <b>INEL Transit House ( 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
28.10.2021	14.0	21.4	29.2	14.6	29.0
29.10.2021	19.1	22.4	41.8	19.5	42.0
30.10.2021	15.2	22.1	35.6	18.4	36.0
31.10.2021	14.2	23.4	40.8	16.4	38.0
01.11.2021	14.2	21.5	37.9	18.5	41.0
02.11.2021	16.6	21.1	37.4	17.3	37.0
03.11.2021	20.0	22.1	61.2	30.6	61.0
<b>Avg</b>	<b>16.2</b>	<b>22.0</b>	<b>40.6</b>	<b>19.3</b>	
<b>04.11.2021</b>	<b>29.5</b>	<b>31.6</b>	<b>100.1</b>	<b>41.6</b>	<b>100.0</b>
05.11.2021	10.5	20.0	41.3	19.2	41.0
06.11.2021	9.0	18.8	60.7	29.0	61.0
07.11.2021	10.9	19.5	68.8	32.8	69.0
08.11.2021	9.5	11.9	66.1	22.2	66.0
09.11.2021	9.2	17.1	61.4	22.4	61.0
10.11.2021	9.8	13.1	57.6	23.3	58.0
11.11.2021	9.9	14.8	53.9	21.6	54.0
<b>Avg</b>	<b>9.8</b>	<b>16.5</b>	<b>58.5</b>	<b>24.3</b>	

\* 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**  
**28.10.2021 to 11.11.2021**

Annexure - V

**HOSUR**

Name of the location: <b>ESI Hospital ( 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
28.10.2021	15.4	21.3	28.3	12.0	28.0
29.10.2021	14.4	21.7	38.8	18.6	39.0
30.10.2021	15.3	22.8	45.7	26.8	46.0
31.10.2021	11.8	19.8	38.5	17.6	39.0
01.11.2021	12.6	19.7	39.4	18.4	39.0
02.11.2021	12.9	19.8	34.9	15.2	35.0
03.11.2021	18.6	20.1	40.4	21.7	100.0
<b>Avg</b>	<b>14.4</b>	<b>20.8</b>	<b>38.0</b>	<b>18.6</b>	
<b>04.11.2021</b>	<b>19.6</b>	<b>23.9</b>	<b>55.5</b>	<b>24.2</b>	<b>56.0</b>
05.11.2021	10.8	20.1	25.9	14.0	41.0
06.11.2021	9.0	18.8	50.0	27.0	50.0
07.11.2021	10.9	19.5	57.7	26.0	58.0
08.11.2021	9.5	11.9	50.7	18.0	51.0
09.11.2021	9.2	17.1	40.0	18.0	40.0
10.11.2021	9.8	13.1	53.6	19.0	54.0
11.11.2021	9.9	14.8	42.0	18.0	42.0
<b>Avg</b>	<b>9.9</b>	<b>16.5</b>	<b>45.7</b>	<b>20.0</b>	

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



## Deepavali Monitoring 2021

### Madurai

#### City:

- Latitude & Longitude : 9.88°N 78.06° E
- Climate / Meteorology : Pre Deepavali Day: Partially Cloudy  
On Deepavali Day: Cloudy
- Population : 10,17,865 (as per 2020)
- Major Land use : Residential and 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) Thiru Nagar ( R )  
Birla Visram ( M )  
**Ambient Air quality Survey**  
Thiru Nagar ( R )  
Birla Visram ( M )
- Activities around the monitoring location / Sources of Noise Pollution : Vehicle Movement and bursting of crackers on Deepavali day.





**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from**  
**28.10.2021 to 11.11.2021**

Annexure - V

**MADURAI**

Name of the location: <b>Thiru 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
28.10.2021	9.0	13.0	47.0	16.0	47.0
29.10.2021	10.0	14.0	46.0	15.0	46.0
30.10.2021	11.0	15.0	43.0	13.0	43.0
31.10.2021	8.0	10.0	40.0	12.0	40.0
01.11.2021	11.0	13.0	52.0	18.0	52.0
02.11.2021	13.0	14.0	56.0	16.0	56.0
03.11.2021	14.0	16.0	60.0	20.0	61.0
<b>Avg</b>	<b>10.9</b>	<b>13.6</b>	<b>49.1</b>	<b>15.7</b>	
<b>04.11.2021</b>	<b>28.0</b>	<b>32.0</b>	<b>132.0</b>	<b>40.0</b>	<b>121.0</b>
05.11.2021	18.0	23.0	58.0	28.0	58.0
06.11.2021	16.0	21.0	53.0	23.0	53.0
07.11.2021	15.0	20.0	50.0	20.0	50.0
08.11.2021	14.0	15.0	46.0	18.0	46.0
09.11.2021	13.0	14.0	42.0	16.0	42.0
10.11.2021	14.0	16.0	44.0	18.0	44.0
11.11.2021	18.0	15.0	48.0	19.0	48.0
<b>Avg</b>	<b>15.4</b>	<b>17.7</b>	<b>48.7</b>	<b>20.3</b>	

\* 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**  
**28.10.2021 to 11.11.2021**

Annexure - V

**MADURAI**

Name of the location: <b>Birla Visram (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
28.10.2021	12.0	16.0	63.0	22.0	63.0
29.10.2021	13.0	17.0	61.0	21.0	61.0
30.10.2021	14.0	16.0	64.0	20.0	64.0
31.10.2021	12.0	14.0	60.0	19.0	60.0
01.11.2021	15.0	18.0	69.0	26.0	69.0
02.11.2021	16.0	20.0	71.0	25.0	71.0
03.11.2021	18.0	21.0	74.0	26.0	74.0
<b>Avg</b>	<b>14.3</b>	<b>17.4</b>	<b>66.0</b>	<b>22.7</b>	
<b>04.11.2021</b>	<b>36.0</b>	<b>40.0</b>	<b>166.0</b>	<b>44.0</b>	<b>144.0</b>
05.11.2021	21.0	24.0	63.0	34.0	63.0
06.11.2021	20.0	22.0	58.0	30.0	58.0
07.11.2021	19.0	21.0	54.0	24.0	54.0
08.11.2021	16.0	18.0	51.0	22.0	51.0
09.11.2021	15.0	17.0	50.0	20.0	50.0
10.11.2021	16.0	18.0	52.0	23.0	52.0
11.11.2021	19.0	19.0	63.0	24.0	63.0
<b>Avg</b>	<b>18.0</b>	<b>19.9</b>	<b>55.9</b>	<b>25.3</b>	

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





**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2021**

**MADURAI**

Location: <b>Thirunagar ( R )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	50.3	87.4	66.4	58.3	120.2	88.6
19:00 to 20:00 Hr	47.1	85.3	64.7	63.4	119.1	90.3
20:00 to 21:00 Hr	57.2	84.6	69.3	56.2	116.3	84.4
21:00 to 22:00 Hr	43.1	82.1	60.5	55.5	100.2	76.5
22:00 to 23:00 Hr	45.6	70.9	55.1	53.4	94.1	72.2
23:00 to 24:00 Hr	36.5	63.5	47.6	44.6	84.8	63.1

Location: <b>Birla Visram ( M )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	51.6	93.7	71.3	53.3	103.0	75.7
19:00 to 20:00 Hr	49.3	86.4	65.1	62.6	105.5	84.7
20:00 to 21:00 Hr	57.2	84.7	68.6	61.1	109.4	86.8
21:00 to 22:00 Hr	44.6	86.1	63.7	54.0	105.5	78.2
22:00 to 23:00 Hr	45.7	76.2	59.6	47.9	100.3	70.7
23:00 to 24:00 Hr	43.0	64.4	51.5	51.1	78.7	62.1



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2021**

**SALEM**

Location: <b>Sri Saradha Balamandhir Boys Matric Hr. Sec. School ( R )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	42.8	82.0	57.0	47.8	99.4	64.9
19:00 to 20:00 Hr	41.2	79.1	57.4	53.8	97.5	80.4
20:00 to 21:00 Hr	41.4	84.2	50.2	59.9	80.7	63.5
21:00 to 22:00 Hr	37.2	76.5	41.9	56.4	103.7	64.0
22:00 to 23:00 Hr	34.3	80.8	36.9	59.5	96.2	62.8
23:00 to 24:00 Hr	33.2	68.3	34.6	57.0	90.8	62.8

Location: <b>Siva Tower (C&amp;I )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	55.8	86.1	64.7	61.1	96.7	72.7
19:00 to 20:00 Hr	52.1	92.3	65.9	62.6	103	75.5
20:00 to 21:00 Hr	53.6	88.1	64.0	60.2	120.3	80.6
21:00 to 22:00 Hr	52.6	87.0	62.1	57.7	108.5	72.1
22:00 to 23:00 Hr	51.3	85.1	59.8	54.7	101.1	69.0
23:00 to 24:00 Hr	48.6	82.4	55.9	53.9	86.1	61.4



## Deepavali Monitoring 2021

### Salem

#### City:

- Latitude & Longitude : 11.65°N and 78.16 E
- Climate / Meteorology : Salem in general is characterized with scanty rain fall and a dry climate. Salem has moderate - dry weather throughout except during the monsoon season. The highest temp is normally recorded during May. There is a light improvement in the climate during June - July period. The North-east monsoon sets in vigorously only during September - November and by December, the rain disappears rendering the climate clear but pleasant.
- Population : 9,19,150 (as on 2011 census results)
- City Area : 124 Sq.km (48 Sq. miles)
- Major Land use : **Salem District:** Agriculture, Industries Mining Forestry Body Building of Goods Transport Vehicles.  
**Salem City:** 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

1.The residential location is purely residential area with Schools and Hospitals  
2. The Commercial and Industrial location is Automobile Work Shops, Sales centres of Automobile spares are located in Meyyanur Main Road. Reliance Mall is situated nearer to the station. Residential houses are located nearby this station. Hotels are also found nearby this station.





**Tamil Nadu Pollution Control Board**

**Ambient Air Quality data during Deepavali festival from**

**28.10.2021 to 11.11.2021**

Annexure - V

**SALEM**

Name of the location: <b>Sri Saradha Balamandhir Boys Metric 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
28.10.2021	7.4	12.0	35.0	24.0	40.0
29.10.2021	6.4	11.8	36.0	20.0	36.0
30.10.2021	8.6	14.1	39.0	26.0	43.0
31.10.2021	9.8	18.1	41.0	29.0	48.0
01.11.2021	7.4	16.0	33.0	19.0	33.0
02.11.2021	10.6	22.8	23.0	13.0	29.0
03.11.2021	13.5	24.2	48.0	27.0	48.0
<b>Avg</b>	<b>9.1</b>	<b>17.0</b>	<b>36.4</b>	<b>22.6</b>	
<b>04.11.2021</b>	<b>11.4</b>	<b>19.9</b>	<b>72.0</b>	<b>40.0</b>	<b>72.0</b>
05.11.2021	15.9	32.0	104.0	60.0	104.0
06.11.2021	14.7	29.8	90.0	48.0	90.0
07.11.2021	12.8	24.6	76.0	36.0	76.0
08.11.2021	5.4	11.3	25.0	14.0	25.0
09.11.2021	6.9	12.4	33.0	16.0	33.0
10.11.2021	6.6	11.8	30.0	18.0	30.0
11.11.2021	5.4	10.5	20.0	11.0	20.0
<b>Avg</b>	<b>9.7</b>	<b>18.9</b>	<b>54.0</b>	<b>29.0</b>	

\* 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  
28.10.2021 to 11.11.2021

SALEM

Annexure - V

Name of the location: Siva Tower ( C&I)					
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
28.10.2021	5.9	8.2	45.0	19.0	45.0
29.10.2021	6.3	9.6	42.0	18.0	42.0
30.10.2021	7.9	10.1	49.0	20.0	49.0
31.10.2021	8.6	11.3	47.0	18.0	47.0
01.11.2021	6.7	9.3	37.0	16.0	37.0
02.11.2021	6.3	12.2	24.0	12.0	24.0
03.11.2021	7.6	14.1	42.0	26.0	43.0
<b>Avg</b>	<b>7.0</b>	<b>10.7</b>	<b>40.9</b>	<b>18.4</b>	
<b>04.11.2021</b>	<b>11.2</b>	<b>24.0</b>	<b>79.0</b>	<b>42.0</b>	<b>79.0</b>
05.11.2021	16.5	32.6	118.0	65.0	117.0
06.11.2021	14.2	29.6	96.0	57.0	96.0
07.11.2021	12.6	22.3	88.0	48.0	88.0
08.11.2021	6.3	10.6	35.0	16.0	35.0
09.11.2021	5.9	11.3	38.0	14.0	38.0
10.11.2021	6.0	12.5	44.0	18.0	44.0
11.11.2021	5.4	8.4	25.0	12.0	25.0
<b>Avg</b>	<b>9.6</b>	<b>18.2</b>	<b>63.4</b>	<b>32.9</b>	

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



## Deepavali Monitoring 2021

### Trichy

#### City:

- Latitude & Longitude : 10° 50'N and 78° 46' E
- Climate / Meteorology : Cloudy on Pre Deepavali and Partial Cloudy on Deepavali day
- Population : 3000000
- 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) A. Thillai Nagar (R)

#### **Ambient Air quality Survey**

Ramalinga Nagar (R)  
Gandhi Market (C )

- Activities around the monitoring location /  
Sources of Noise Pollution

: Location A (NLS):  
Residential area all type of  
vehicles movement observed.







**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from**  
**28.10.2021 to 11.11.2021**

Annexure - V

**TRICHY**

Name of the location: <b>Gandhi Market ( 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
28.10.2021	10.3	15.4	62.0	19.0	62.0
29.10.2021	8.0	13.0	60.0	16.0	60.0
30.10.2021	9.5	13.7	55.0	15.0	55.0
31.10.2021	8.5	14.3	42.0	13.0	42.0
01.11.2021	11.4	15.0	64.0	20.0	64.0
02.11.2021	8.0	12.0	48.0	14.0	48.0
03.11.2021	11.0	15.0	66.0	21.0	66.0
<b>Avg</b>	<b>9.5</b>	<b>14.1</b>	<b>56.7</b>	<b>16.9</b>	
<b>04.11.2021</b>	<b>13.0</b>	<b>17.0</b>	<b>80.0</b>	<b>29.0</b>	<b>80.0</b>
05.11.2021	9.2	14.4	49.0	17.0	49.0
06.11.2021	9.9	14.3	54.0	15.0	54.0
07.11.2021	10.1	15.2	52.0	14.0	57.0
08.11.2021	8.0	13.1	47.0	13.0	47.0
09.11.2021	Rain				
10.11.2021	8.4	12.2	46.0	16.0	46.0
11.11.2021	9.3	14.0	59.0	18.0	59.0
<b>Avg</b>	<b>9.2</b>	<b>13.9</b>	<b>51.2</b>	<b>15.5</b>	

\* 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**

**28.10.2021 to 11.11.2021**

Annexure - V

**TRICHY**

Name of the location: <b>Ramalinga Nagar ( R )</b>					
Date	Regulatory Parameters				
	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	AQI
28.10.2021	8.2	12.9	51.0	16.0	51.0
29.10.2021	7.6	11.7	42.0	13.0	42.0
30.10.2021	8.0	11.0	47.0	15.0	47.0
31.10.2021	7.0	10.0	38.0	11.0	38.0
01.11.2021	6.0	9.0	32.0	10.0	32.0
02.11.2021	8.0	13.0	45.0	12.0	45.0
03.11.2021	9.0	14.0	49.0	19.0	49.0
<b>Avg</b>	<b>7.7</b>	<b>11.7</b>	<b>43.4</b>	<b>13.7</b>	
<b>04.11.2021</b>	<b>10.0</b>	<b>15.0</b>	<b>56.0</b>	<b>21.0</b>	<b>56.0</b>
05.11.2021	9.2	13.3	52.0	17.0	52.0
06.11.2021	8.2	12.0	46.0	16.0	46.0
07.11.2021	9.5	14.4	50.0	13.9	50.0
08.11.2021	8.2	13.7	48.0	14.0	48.0
09.11.2021	Rain				
10.11.2021	7.4	12.2	44.0	13.0	44.0
11.11.2021	8.2	13.4	47.0	17.0	47.0
<b>Avg</b>	<b>8.5</b>	<b>13.2</b>	<b>47.8</b>	<b>15.2</b>	

\* All Values (24 hourly Average) are in ( $\mu\text{g}/\text{m}^3$ )



## Deepavali Monitoring 2021

### Trichy-Thanjavur

#### City:

- Latitude & Longitude : 10° 45'49.7"N and 79°07'58.3" E
- Climate / Meteorology : Cloudy on Pre Deepavali and Partial Cloudy on Deepavali day
- Population : 2500000
- 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) A. Arulanandhammal Nagar(R)  
  
**Ambient Air quality Survey**  
A. Arokkiya Nagar (R)  
Nanjikottai Road,  
Karunavathi Nagar (M)
- Activities around the monitoring location / Sources of Noise Pollution : Location A (NLS):  
Residential area all type of vehicles movement observed.





**Tamil Nadu Pollution Control Board**

**Ambient Air Quality data during Deepavali festival from**

**28.10.2021 to 11.11.2021**

Annexure - V

**TRICHY - THANJAVUR**

Name of the location: Arokkiya 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
28.10.2021	7.5	9.4	26.0	9.0	26.0
29.10.2021	8.8	10.3	23.0	8.0	23.0
30.10.2021	8.9	10.3	27.0	10.0	27.0
31.10.2021	8.1	9.7	29.0	11.0	29.0
01.11.2021	7.6	9.2	22.0	7.0	22.0
02.11.2021	7.0	8.9	24.0	8.0	24.0
03.11.2021	10.7	12.4	59.0	26.0	59.0
<b>Avg</b>	<b>8.4</b>	<b>10.0</b>	<b>30.0</b>	<b>11.3</b>	
<b>04.11.2021</b>	<b>14.9</b>	<b>17.1</b>	<b>67.0</b>	<b>40.0</b>	<b>67.0</b>
05.11.2021	9.2	11.0	34.0	12.0	34.0
06.11.2021	7.7	9.7	31.0	13.0	31.0
07.11.2021	8.1	10.0	28.0	10.0	28.0
08.11.2021	6.7	8.8	20.0	6.0	20.0
09.11.2021	Rain				
10.11.2021	7.4	9.2	25.0	7.0	25.0
11.11.2021	8.0	9.7	22.0	6.0	22.0
<b>Avg</b>	<b>7.9</b>	<b>9.7</b>	<b>26.7</b>	<b>9.0</b>	

\* 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**

**28.10.2021 to 11.11.2021**

Annexure - V

**TRICHY - THANJAVUR**

Name of the location: <b>Karunavathi Nagar (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
28.10.2021	9.3	10.4	38.0	15.0	38.0
29.10.2021	11.4	12.8	40.0	17.0	40.0
30.10.2021	10.7	12.0	37.0	12.0	37.0
31.10.2021	7.4	8.8	41.0	14.0	41.0
01.11.2021	10.1	11.8	32.0	11.0	32.0
02.11.2021	7.6	9.3	30.0	10.0	30.0
03.11.2021	11.9	14.1	64.0	38.0	64.0
<b>Avg</b>	<b>9.8</b>	<b>11.3</b>	<b>40.3</b>	<b>16.7</b>	
<b>04.11.2021</b>	<b>16.4</b>	<b>18.4</b>	<b>76.0</b>	<b>46.0</b>	<b>77.0</b>
05.11.2021	11.4	13.6	41.0	13.0	41.0
06.11.2021	8.8	10.8	43.0	14.0	43.0
07.11.2021	11.0	13.0	39.0	11.0	39.0
08.11.2021	10.1	11.8	26.0	8.0	26.0
09.11.2021	Rain				
10.11.2021	9.7	11.7	33.0	10.0	33.0
11.11.2021	11.1	13.0	29.0	8.0	29.0
<b>Avg</b>	<b>10.4</b>	<b>12.3</b>	<b>35.2</b>	<b>10.7</b>	<b>35.2</b>

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



## Deepavali Monitoring 2021

### Tirunelveli

#### City:

- Latitude & Longitude : 8.73°N and 77.70° E
- Climate / Meteorology : Cloudy with raining days.  
Pre Deepavali day: 28.10.21 to 03.11.21,  
Cloudy and occasionally rainy  
on Deepavali days 04.11.21 Cloudy  
occasionally rainy  
Post Deepavali day 05.11.21 to 11.11.21  
Cloudy with rain
- Population : 9.56
- 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) Vannarpettai ( C )  
Pettai ( S )  
**Ambient Air quality Survey**  
Town ( R ) – Movement of all  
types of vehicles  
Pettai ( S ) – Residential,  
School, Hospital along with  
movements of all kinds of  
vehicles.
- Activities around the monitoring location /  
Sources of Noise Pollution : All the two places crackers  
were bursted only on  
Deepavali day (04.11.2021)  
monitoring during 19.00 to  
19.00 to 20.00 hrs.







**Tamil Nadu Pollution Control Board**

**Ambient Air Quality data during Deepavali festival from**

**28.10.2021 to 11.11.2021**

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
28.10.2021	7.7	14.9	47.5	24.4	48.0
29.10.2021	7.0	13.6	47.0	22.1	47.0
30.10.2021	5.2	11.9	32.0	5.5	32.0
31.10.2021	7.5	15.1	35.0	6.1	35.0
01.11.2021	6.4	13.8	36.0	18.8	36.0
02.11.2021	7.5	15.0	57.0	15.2	57.0
03.11.2021	8.1	16.2	49.0	6.9	49.0
<b>Avg</b>	<b>7.1</b>	<b>14.4</b>	<b>43.4</b>	<b>14.1</b>	
<b>04.11.2021</b>	<b>10.2</b>	<b>20.1</b>	<b>62.9</b>	<b>15.1</b>	<b>63.0</b>
05.11.2021	11.4	18.3	44.6	8.6	45.0
06.11.2021	8.2	17.1	45.3	6.3	45.0
07.11.2021	6.4	14.6	36.2	12.1	36.0
08.11.2021	6.0	12.5	38.6	5.3	39.0
09.11.2021	Heavy rain				
10.11.2021	Heavy rain				
11.11.2021	7.4	16.1	47.4	16.0	47.0
<b>Avg</b>	<b>7.9</b>	<b>15.7</b>	<b>42.5</b>	<b>9.6</b>	

\* 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**  
**28.10.2021 to 11.11.2021**

Annexure - V

**TIRUNELVELI**

Name of the location: <b>Town ( 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
28.10.2021	6.4	15.5	59.7	14.7	60.0
29.10.2021	8.4	16.6	56.0	10.7	56.0
30.10.2021	9.2	18.8	59.0	13.8	59.0
31.10.2021	7.9	15.5	35.0	18.6	35.0
01.11.2021	8.5	16.4	59.0	5.9	59.0
02.11.2021	7.9	17.0	62.0	16.7	62.0
03.11.2021	7.0	15.5	64.0	8.5	64.0
<b>Avg</b>	<b>7.9</b>	<b>16.5</b>	<b>56.4</b>	<b>12.7</b>	
<b>04.11.2021</b>	<b>10.0</b>	<b>18.5</b>	<b>65.4</b>	<b>17.1</b>	<b>65.0</b>
05.11.2021	10.9	19.6	55.6	11.9	55.0
06.11.2021	9.6	19.9	60.1	14.3	60.0
07.11.2021	10.0	15.6	49.0	6.4	49.0
08.11.2021	9.0	18.0	46.6	5.4	47.0
09.11.2021	5.5	10.9	36.9	12.9	37.0
10.11.2021	10.4	20.4	50.9	7.1	51.0
11.11.2021	9.9	20.0	50.2	5.4	50.0
<b>Avg</b>	<b>9.3</b>	<b>17.8</b>	<b>49.9</b>	<b>9.1</b>	

\* 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**  
**28.10.2021 to 11.11.2021**

Annexure - V

**TIRUNELVELI - 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
28.10.2021	7.5	17.1	27.0	14.3	27.0
29.10.2021	7.7	14.6	24.0	2.1	24.0
30.10.2021	6.4	13.5	33.0	3.7	33.0
31.10.2021	7.7	14.2	26.0	6.3	26.0
01.11.2021	7.0	13.4	29.0	5.2	29.0
02.11.2021	7.5	14.7	43.0	6.6	43.0
03.11.2021	8.0	17.1	50.0	8.5	50.0
<b>Avg</b>	<b>7.4</b>	<b>14.9</b>	<b>33.1</b>	<b>6.7</b>	
<b>04.11.2021</b>	<b>8.9</b>	<b>20.4</b>	<b>73.7</b>	<b>17.3</b>	<b>74.0</b>
05.11.2021	8.4	16.5	37.8	<b>3.2</b>	38.0
06.11.2021	9.2	15.8	43.1	3.2	43.0
07.11.2021	7.5	15.4	40.0	6.7	40.0
08.11.2021	6.7	12.8	40.0	4.7	40.0
09.11.2021	Heavy Rain				
10.11.2021	8.9	14.7	40.2	7.0	40.0
11.11.2021	6.7	15.4	32.1	4.7	32.0
<b>Avg</b>	<b>7.9</b>	<b>15.1</b>	<b>38.9</b>	<b>4.9</b>	

\* 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**

**28.10.2021 to 11.11.2021**

Annexure - V

**TIRUNELVELI - Nagercoil**

Name of the location: <b>Nagercoil 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
28.10.2021	5.9	14.9	47.0	12.7	47.0
29.10.2021	5.2	13.8	28.0	4.5	28.0
30.10.2021	6.3	13.4	44.0	12.8	44.0
31.10.2021	5.5	12.2	21.0	2.5	21.0
01.11.2021	4.6	12.8	40.0	4.6	40.0
02.11.2021	6.5	13.9	35.0	9.1	35.0
03.11.2021	7.2	13.4	37.6	4.8	38.0
<b>Avg</b>	<b>5.9</b>	<b>13.5</b>	<b>36.1</b>	<b>7.3</b>	
<b>04.11.2021</b>	<b>8.2</b>	<b>15.1</b>	<b>59.6</b>	<b>9.5</b>	<b>60.0</b>
05.11.2021	5.2	11.8	43.0	3.9	42.0
06.11.2021	7.2	13.5	38.9	6.2	39.0
07.11.2021	5.4	12.5	34.0	3.5	34.0
08.11.2021	5.7	12.8	36.9	4.7	37.0
09.11.2021	Heavy Rain				
10.11.2021	4.9	12.7	38.1	4.5	38.0
11.11.2021	5.0	12.2	34.7	4.5	35.0
<b>Avg</b>	<b>5.5</b>	<b>12.6</b>	<b>37.6</b>	<b>4.6</b>	

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



## Deepavali Monitoring 2021

### Nagercoil

#### City:

- Latitude & Longitude : 8.1833° N and 77.4119° E
- Climate / Meteorology : Partially cloudy
- Population : 2,24,849 (as per 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) **Ambient Air quality Survey**  
Nagercoil

Activities around the monitoring location /  
Sources of Noise Pollution

:Vehicle movement and  
bursting of crackers were  
observed on Deepavali day.





## Deepavali Monitoring 2021

### Tiruppur

#### City:

- Latitude & Longitude : 11.1085° N and 77.3411° E
- Climate / Meteorology : Clear sky
- Population : 24,71,222 as per 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) 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**

**Ambient Air Quality data during Deepavali festival from**

**28.10.2021 to 11.11.2021**

Annexure - V

**TIRUPPUR**

Name of the location: <b>Kumaran Complex ( 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
28.10.2021	36.5	<9	213.0	75.0	175.0
29.10.2021	29.4	<9	230.0	66.0	187.0
30.10.2021	23.7	<9	157.0	70.0	138.0
31.10.2021	23.0	10.5	111.0	64.0	113.0
01.11.2021	25.3	<9	168.0	68.0	145.0
02.11.2021	26.4	<9	216.0	72.0	177.0
03.11.2021	15.1	<9	155.0	23.0	137.0
<b>Avg</b>	<b>25.6</b>	<b>10.5</b>	<b>178.6</b>	<b>62.6</b>	
<b>04.11.2021</b>	<b>14.6</b>	<9	<b>248.0</b>	<b>18.0</b>	<b>199.0</b>
05.11.2021	5.7	<9	107.0	8.0	105.0
06.11.2021	16.2	<9	108.0	12.0	105.0
07.11.2021	16.9	<9	119.0	19.0	113.0
08.11.2021	13.9	<9	127.0	14.0	118.0
09.11.2021	8.8	<9	205.0	34.0	170.0
10.11.2021	8.4	<9	137.0	12.0	125.0
11.11.2021	10.8	<9	94.0	24.0	94.0
<b>Avg</b>	<b>11.5</b>	<b>&lt;9</b>	<b>128.1</b>	<b>17.6</b>	

\* 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**

**28.10.2021 to 11.11.2021**

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
28.10.2021	22.6	11.2	236.0	44.0	191.0
29.10.2021	17.9	15.4	258.0	49.0	208.0
30.10.2021	20.9	12.6	258.0	53.0	208.0
31.10.2021	11.3	10.0	161.0	38.0	141.0
01.11.2021	26.0	10.8	154.0	40.0	136.0
02.11.2021	28.2	9.8	178.0	52.0	152.0
03.11.2021	11.9	<9	452.0	72.0	428.0
<b>Avg</b>	<b>19.8</b>	<b>11.6</b>	<b>242.4</b>	<b>49.7</b>	
<b>04.11.2021</b>	<b>16.9</b>	<b>&lt;9</b>	<b>135.0</b>	<b>40.0</b>	<b>123.0</b>
05.11.2021	12.0	<9	250.0	26.0	200.0
06.11.2021	10.9	10.5	121.0	27.0	114.0
07.11.2021	12.0	<9	70.0	8.0	70.0
08.11.2021	10.4	<9	139.0	9.0	126.0
09.11.2021	10.4	<9	112.0	17.0	108.0
10.11.2021	10.4	<9	104.0	27.0	103.0
11.11.2021	10.6	<9	86.0	28.0	86.0
<b>Avg</b>	<b>11.0</b>	<b>10.5</b>	<b>126.0</b>	<b>20.3</b>	

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



## Deepavali Monitoring 2021

### Thoothukudi

#### City:

- Latitude & Longitude : 8°47'47" N and 78° 7'1" E
- Climate / Meteorology : Frequent rain in Thoothukudi during Pre Deepavali and Deepavali. The sky was cloudy with calm wind.
- Population : 17.5 Lakhs (Census 2011)
- Major Land use : Thoothukudi is 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) Raju Nagar (R )  
**Ambient Air quality Survey**  
Raju Nagar ( R )  
Celseeni Colony ( R )
- Activities around the monitoring location / Sources of Noise Pollution : Residential area where movement's automobile were observed.





**Tamil Nadu Pollution Control Board**

**Ambient Air Quality data during Deepavali festival from**

**28.10.2021 to 11.11.2021**

Annexure - V

**THOOTHUKUDI**

Name of the location: <b>Raju 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
28.10.2021	2.4	9.0	50.8	36.5	62.0
29.10.2021	2.2	7.7	51.7	18.8	52.0
30.10.2021	2.1	6.2	35.4	12.3	35.0
31.10.2021	2.0	6.0	30.8	25.1	42.0
01.11.2021	2.9	7.8	56.8	16.0	57.0
02.11.2021	2.5	7.6	64.8	17.8	65.0
03.11.2021	2.5	8.1	104.4	36.2	103.0
<b>Avg</b>	<b>2.4</b>	<b>7.5</b>	<b>56.4</b>	<b>23.2</b>	
<b>04.11.2021</b>	<b>4.2</b>	<b>10.3</b>	<b>189.8</b>	<b>155.6</b>	<b>328.0</b>
05.11.2021	3.3	6.7	46.1	12.2	46.0
06.11.2021	2.4	7.1	40.3	16.0	40.0
07.11.2021	2.5	7.3	41.1	13.5	41.0
08.11.2021	2.2	6.4	39.5	12.9	39.0
09.11.2021	2.9	7.9	47.4	15.2	47.0
10.11.2021	2.9	7.4	49.9	22.7	50.0
11.11.2021	4.7	8.7	65.7	21.6	66.0
<b>Avg</b>	<b>3.0</b>	<b>7.3</b>	<b>47.1</b>	<b>16.3</b>	

\* 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**

**28.10.2021 to 11.11.2021**

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
28.10.2021	2.4	8.3	53.3	24.0	53.0
29.10.2021	3.1	5.1	57.4	19.4	57.0
30.10.2021	2.6	5.8	58.3	14.6	58.0
31.10.2021	2.2	5.7	41.7	9.3	42.0
01.11.2021	2.4	8.7	51.2	18.7	51.0
02.11.2021	2.9	6.2	80.2	13.7	80.0
03.11.2021	3.1	8.9	126.3	22.1	117.0
<b>Avg</b>	<b>2.7</b>	<b>7.0</b>	<b>66.9</b>	<b>17.4</b>	
<b>04.11.2021</b>	<b>4.2</b>	<b>10.0</b>	<b>251.9</b>	<b>181.1</b>	<b>347.0</b>
05.11.2021	2.5	7.9	44.5	17.6	45.0
06.11.2021	2.8	7.4	46.5	16.5	47.0
07.11.2021	2.8	7.7	47.5	19.4	47.0
08.11.2021	2.1	6.3	43.0	13.6	43.0
09.11.2021	2.8	7.0	47.7	13.6	48.0
10.11.2021	3.9	7.3	78.9	28.1	79.0
11.11.2021	2.9	6.9	80.0	14.3	80.0
<b>Avg</b>	<b>2.8</b>	<b>7.2</b>	<b>55.4</b>	<b>17.6</b>	

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



## Deepavali Monitoring 2021

### Vellore

#### City:

- Latitude & Longitude : 12.95°N 79.14°E
- Climate / Meteorology : Rainy and slightly cold
- Population : 5,01,966 as per 2014
- Major Land use : **Residence**

#### 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 (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

:Location A: Residential area with houses, schools, college and some government offices.

Location B: Predominantly residential with slight commercial activity.







**Tamil Nadu Pollution Control Board**  
**Ambient Air Quality data during Deepavali festival from**  
**28.10.2021 to 11.11.2021**

Annexure - V

**VELLORE**

Name of the location: <b>SIDCO Industrial Estate ( 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
28.10.2021	7.1	16.0	134.0	42.0	123.0
29.10.2021	5.2	13.9	106.0	31.0	104.0
30.10.2021	6.2	13.6	119.0	33.0	113.0
31.10.2021	6.7	14.8	76.0	18.0	76.0
01.11.2021	5.5	11.9	59.0	13.0	59.0
02.11.2021	6.8	14.3	74.0	25.0	74.0
03.11.2021	7.1	16.1	97.0	24.0	97.0
<b>Avg</b>	<b>6.4</b>	<b>14.4</b>	<b>95.0</b>	<b>26.6</b>	
<b>04.11.2021</b>	<b>11.2</b>	<b>19.4</b>	<b>139.0</b>	<b>58.0</b>	<b>126.0</b>
05.11.2021	7.6	13.5	69.0	21.0	69.0
06.11.2021	4.7	11.8	34.0	9.0	34.0
07.11.2021	4.5	11.3	26.0	8.0	26.0
08.11.2021	4.4	10.9	22.0	7.0	22.0
09.11.2021	8.6	17.5	98.0	25.0	98.0
10.11.2021	8.0	16.8	97.0	19.0	97.0
11.11.2021	6.5	13.8	56.0	13.0	56.0
<b>Avg</b>	<b>6.3</b>	<b>13.7</b>	<b>57.4</b>	<b>14.6</b>	

\* 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**

**28.10.2021 to 11.11.2021**

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
28.10.2021	7.5	16.7	141.0	47.0	127.0
29.10.2021	6.2	15.8	91.0	27.0	91.0
30.10.2021	6.9	16.4	172.0	38.0	148.0
31.10.2021	5.9	13.8	63.0	14.0	163.0
01.11.2021	7.5	13.4	66.0	19.0	66.0
02.11.2021	9.1	16.0	108.0	29.0	105.0
03.11.2021	10.1	17.5	109.0	26.0	106.0
<b>Avg</b>	<b>7.6</b>	<b>15.7</b>	<b>107.1</b>	<b>28.6</b>	
<b>04.11.2021</b>	<b>12.4</b>	<b>20.5</b>	<b>144.0</b>	<b>43.0</b>	<b>129.0</b>
05.11.2021	5.6	12.0	55.0	19.0	55.0
06.11.2021	5.4	12.1	43.0	12.0	43.0
07.11.2021	4.8	10.8	31.0	9.0	31.0
08.11.2021	4.5	10.5	18.0	6.0	18.0
09.11.2021	7.1	16.1	73.0	18.0	73.0
10.11.2021	6.7	15.2	82.0	18.0	82.0
11.11.2021	7.7	17.6	70.0	22.0	70.0
<b>Avg</b>	<b>6.0</b>	<b>13.5</b>	<b>53.1</b>	<b>14.9</b>	
* All Values (24 hourly Average) are in (µg/m <sup>3</sup> )					

**Inference of Deepavali Report – 2021 in the State of Tamil Nadu Inference of monitoring of ambient noise and air pollution during Deepavali Festival – 2021 are furnished in the following Table – I and Table – II.**

**TABLE – I**

Sl. No.	City	NLS	
		Pre - Deepavali Day (29.10.2021)	Deepavali Day (04.11.2021)
		Leq dB(A)	Leq dB(A)
1.	Chennai	59	73
2.	Chengalpet	57	70
3.	Coimbatore	60	68
4.	Cuddalore	57	71
5.	Dindigul	50	72
6.	Hosur	61	67
7.	Madurai	62	78
8.	Nagercoil	54	62
9.	Salem	54	69
10.	Tirunelveli	53	68
11.	Trichy	63	72
12.	Thanjavur	58	74
13.	Tiruppur	58	63
14.	Thoothukudi	59	72
15.	Vellore	58	68

**Note:** The values reported should not be compared with prescribed noise level standards for designated areas as the values collected cannot be matched with time period (Daytime 6.00 a.m to 10.00 p.m and night time 10.00 p.m. to 6.00 a.m) as prescribed in the standards. From the above table, the Noise level values ranged from 50 (dBA to 62 dBA for Pre-Deepavali (29.10.2021) and from 63 dBA to 78 dBA for Deepavali (04.11.2021) in Tamil Nadu.

**TABLE - II**

Sl. No.	City	AAQ							
		Pre - Deepavali Day (28.10.2021 to 03.11.2021)		Deepavali Day (04.11.2021)				Post -Deepavali Day (05.11.2021 to 11.11.2021)	
		PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</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> )	AOI	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	
<b>I.</b>	<b>Chennai</b>								
1.	Besant Nagar (R)	44	19	187	175	<b>342</b>	<b>VP</b>	50	21
2.	T.Nagar (C)	56	28	280	231	<b>385</b>	<b>VP</b>	43	19
3.	Nungabakkam (R)	49	23	283	210	<b>369</b>	<b>VP</b>	37	18
4.	Triplicane (R)	48	22	267	222	<b>378</b>	<b>VP</b>	40	19
5.	Sowcarpet (M)	58	29	268	212	<b>371</b>	<b>VP</b>	40	19
<b>II.</b>	<b>Chengalpet</b>								
6.	Tambaram (C)	56	21	266	86	<b>216</b>	<b>P</b>	47	15
<b>III.</b>	<b>Coimbatore</b>								
7.	Koundampalayam (R)	54	23	209	78	<b>173</b>	<b>M</b>	52	22
8.	District Collector Office (M)	56	26	203	88	<b>193</b>	<b>M</b>	48	21
<b>IV.</b>	<b>Cuddalore</b>								
9.	Imperial Road (C)	51	21	93	41	<b>93</b>	<b>S</b>	35	18
10.	Pudupalayam(R)	48	18	87	38	<b>87</b>	<b>S</b>	32	16
<b>V.</b>	<b>Dindigul</b>								
11.	Nagal Pudur (R)	66	28	117	42	<b>117</b>	<b>M</b>	73	28
12.	Rajagopal Iyengar & Sons (C)	78	32	138	48	<b>138</b>	<b>M</b>	94	36
<b>VI.</b>	<b>Hosur</b>								
13.	Inel Transit House (R)	41	19	100	42	<b>100</b>	<b>S</b>	59	24
14.	ESI Hospital (S)	38	19	56	24	<b>56</b>	<b>S</b>	46	20
<b>VII</b>	<b>Madurai</b>								
15.	Thirunagar (R)	49	16	132	40	<b>121</b>	<b>M</b>	49	20
16.	Birla Vishra (M)	66	23	166	44	<b>144</b>	<b>M</b>	56	25
<b>VIII.</b>	<b>Nagercoil</b>								
17.	Water Tank Road (M)	33	7	74	17	<b>74</b>	<b>S</b>	39	5
18.	Scott Christian college(R)	36	7	60	10	<b>60</b>	<b>S</b>	38	5

<b>IX.</b>	<b>Salem</b>								
19.	Sri Saradha Balamandhir School (R )	36	23	72	40	<b>72</b>	<b>S</b>	54	29
20.	Siva Tower (C)	41	18	79	42	<b>79</b>	<b>S</b>	63	33
<b>X.</b>	<b>Thanjavur</b>								
21.	Arokiya Nagar (R)	30	11	67	40	<b>67</b>	<b>S</b>	27	9
22.	Karunavathi Nagar (M)	40	17	76	46	<b>77</b>	<b>S</b>	35	11
<b>XI.</b>	<b>Thoothukudi</b>								
23.	Raju Nagar (R )	56	23	190	156	<b>328</b>	<b>VP</b>	47	16
24.	Cellsini Colony (R )	67	17	252	181	<b>347</b>	<b>VP</b>	55	18
<b>XII.</b>	<b>Tirunelveli</b>								
25.	Pettai (I)	43	14	63	15	<b>63</b>	<b>S</b>	43	10
26.	Town (R )	56	13	65	17	<b>65</b>	<b>S</b>	50	9
<b>XIII.</b>	<b>Tiruppur</b>								
27.	Rayapuram (R )	242	50	135	40	<b>123</b>	<b>M</b>	126	20
28.	Kumaran Complex (C)	179	63	248	18	<b>199</b>	<b>M</b>	128	18
<b>XIV.</b>	<b>Trichy</b>								
29.	Gandhi market (C)	57	17	80	29	<b>80</b>	<b>S</b>	51	16
30.	Ramalinga Nagar (R )	43	14	56	21	<b>56</b>	<b>S</b>	48	15
<b>XV.</b>	<b>Vellore</b>								
31.	Gandhi Nagar (R)	107	29	144	43	<b>129</b>	<b>M</b>	53	15
32.	SIDCO (I)	95	27	139	58	<b>126</b>	<b>M</b>	57	15

**R – Residential, I – Industrial, C – Commercial and M – Mixed.**

**Air Quality Index (AQI) value**

**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 cities namely Cuddalore, Hosur, Nagercoil, Salem, Thanjavur, Tirunelveli and Trichy revealed that almost 7 Locations falls under **Satisfactory** category (AQI-51 to 100) 5 cities namely Coimbatore, Dindigul, Madurai, Tiruppur and Vellore falls under the **Moderate** category (AQI-101 to 200) and 1 at Tambaram in Chengulpet District has an AQI value of 216 falls under **Poor** Category and 5 stations in Chennai and two stations at Thoothukudi had a very high values of AQI (301-400) falling under **Very Poor** category.





**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2021**

**TIRUNELVELI**

Location: <b>Pettai ( S )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	36.5	76.4	48.6	49.2	88.6	64.3
19:00 to 20:00 Hr	34.0	73.2	48.1	50.3	92.4	60.1
20:00 to 21:00 Hr	33.6	71.9	48.7	47.6	89.7	56.7
21:00 to 22:00 Hr	37.4	71.3	45.9	46.5	74.3	52.3
22:00 to 23:00 Hr	33.4	69.2	43.5	45.1	78.6	50.1
23:00 to 24:00 Hr	36.9	73.4	49.8	40.3	68.5	48.3

Location: <b>Vannarpettai ( C )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	55.8	79.1	65.2	53.4	90.3	68.5
19:00 to 20:00 Hr	62.1	82.3	67.6	55.6	94.7	70.6
20:00 to 21:00 Hr	58.9	80.6	62.3	54.1	88.6	64.9
21:00 to 22:00 Hr	51.0	76.1	56.1	50.7	76.4	60.1
22:00 to 23:00 Hr	50.4	68.0	54.9	48.9	72.1	54.7
23:00 to 24:00 Hr	48.3	61.3	51.5	44.1	66.3	52.1



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2021**

**TIRUNELVELI - Nagercoil**

Location: Nagercoil	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
18:00 to 19:00 Hr	54.9	86.2	59.3	48.4	82.7	60.4
19:00 to 20:00 Hr	51.3	86.2	63.1	48.0	86.8	62.1
20:00 to 21:00 Hr	38.7	83.9	61.5	37.7	88.9	59.5
21:00 to 22:00 Hr	34.3	76.6	48.6	38.2	85.3	63.0
22:00 to 23:00 Hr	39.1	58.7	44.3	37.3	84.9	64.1
23:00 to 24:00 Hr	36.7	77.0	47.2	37.9	83.5	63.9





**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2021**

**TRICHY**

Location: <b>Thillai Nagar ( R )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}dB(A)$	$L_{min}$	$L_{max}$	$L_{eq}dB(A)$
18:00 to 19:00 Hr	38.9	91.2	70.1	63.9	83.4	72.9
19:00 to 20:00 Hr	53.4	77.2	65.8	60.6	90.3	74.4
20:00 to 21:00 Hr	61.2	68.2	66.1	54.4	100.1	77.8
21:00 to 22:00 Hr	60.0	79.8	70.8	56.4	80.9	71.3
22:00 to 23:00 Hr	43.2	66.1	53.2	63.6	75.2	69.1
23:00 to 24:00 Hr	46.6	58.3	50.2	56.2	70.7	65.3



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2021**

**TRICHY - Thanjavur**

Location: <b>Arulanandhammal Nagar ( R )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	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	42.5	89.9	61.1	46.2	103.7	80.5
19:00 to 20:00 Hr	40.4	85.6	59.0	50.9	103.2	76.0
20:00 to 21:00 Hr	42.7	86.7	59.7	50.0	106.8	80.4
21:00 to 22:00 Hr	41.5	78.4	56.2	47.6	108.3	79.1
22:00 to 23:00 Hr	40.8	78.8	56.1	41.3	97.6	66.9
23:00 to 24:00 Hr	41.6	72.9	57.9	41.7	88.2	63.3



**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2021**

**THOOTHUKUDI**

Location: <b>Raju Nagar (R)</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	42.4	91.8	64.1	47.1	108.9	81.4
19:00 to 20:00 Hr	43.6	85.8	59.4	46.9	102.6	77.3
20:00 to 21:00 Hr	41.7	75.2	56.8	46.2	99.9	73.8
21:00 to 22:00 Hr	48.7	76.3	58.7	41.5	109.7	76.6
22:00 to 23:00 Hr	41.7	75.2	58.3	41.2	107.4	70.8
23:00 to 24:00 Hr	43.3	78.1	55.9	40.8	86.2	54.7

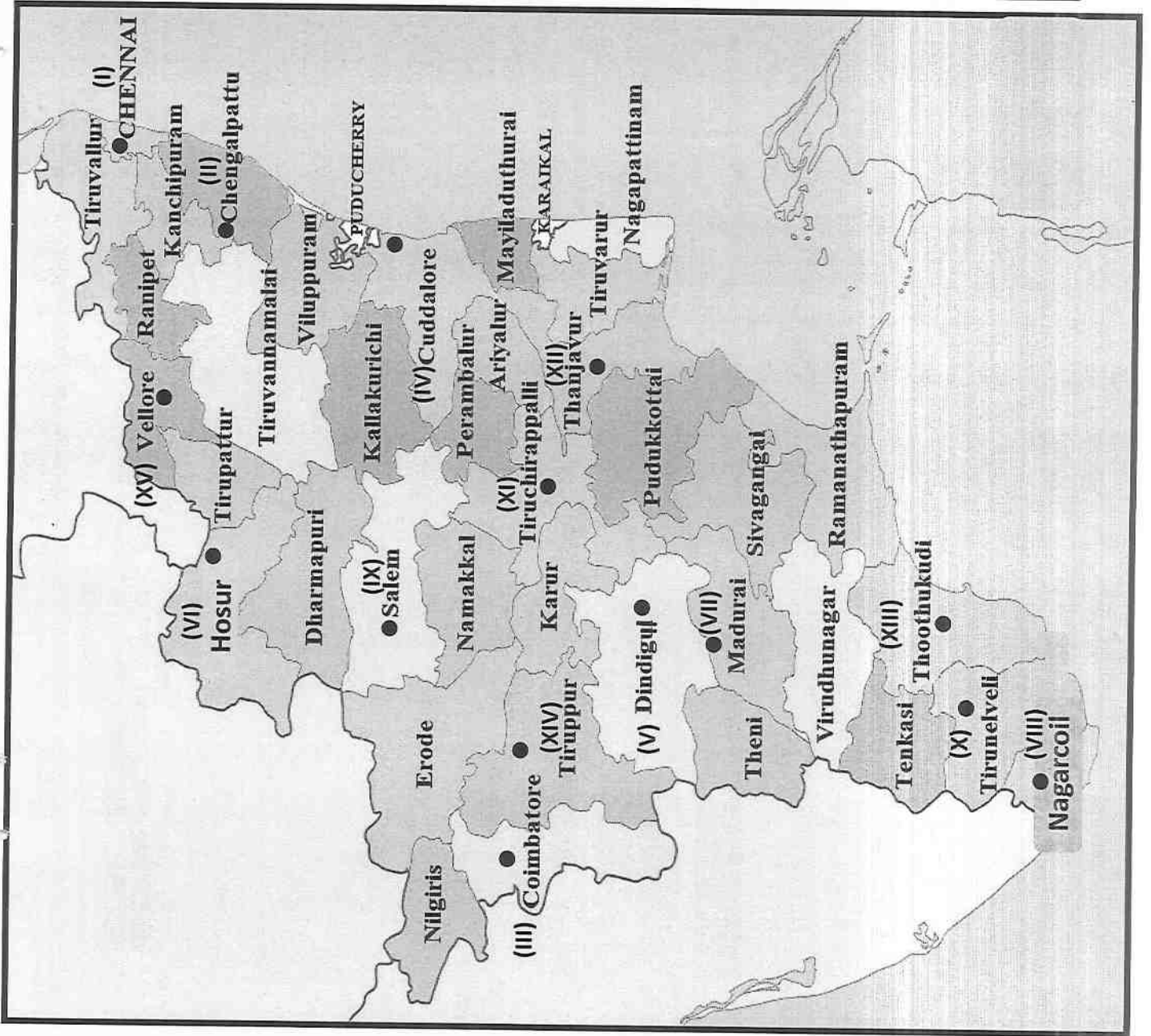


**Tamil Nadu Pollution Control Board**  
**Noise level during Deepavali festival - 2021**

**TIRUPPUR**

Location: <b>Rayapuram ( R )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	32.9	99.6	64.6	48.8	67.7	56.6
19:00 to 20:00 Hr	33.1	91.6	63.6	51.4	81.2	62.6
20:00 to 21:00 Hr	44.4	81.0	53.2	48.2	99.8	74.0
21:00 to 22:00 Hr	32.7	86.0	53.1	43.6	104.9	93.7
22:00 to 23:00 Hr	33.1	86.0	52.6	47.5	81.9	62.3
23:00 to 24:00 Hr	31.2	84.0	51.9	42.3	79.6	61.2

Location: <b>Kumaran Complex ( C )</b>	Pre - Deepavali Day (29.10.2021)			Deepavali Day (04.11.2021)		
	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)	$L_{min}$	$L_{max}$	$L_{eq}$ dB(A)
Time duration						
18:00 to 19:00 Hr	59.4	69.4	66.5	39.9	73.8	51.0
19:00 to 20:00 Hr	44.4	87.3	57.8	47.0	67.5	61.3
20:00 to 21:00 Hr	50.5	81.0	62.9	44.6	74.2	61.5
21:00 to 22:00 Hr	52.8	86.5	58.1	41.4	71.3	53.4
22:00 to 23:00 Hr	32.7	86.0	53.6	38.3	80.3	58.3
23:00 to 24:00 Hr	33.1	79.6	53.3	49.5	80.2	63.6



Sl. No	Name of the city
I	Chennai
II	Chengalpet
III	Coimbatore
IV	Cuddalore
V	Dindigul
VI	Hosur
VII	Madurai
VIII	Nagarcoil
IX	Salem
X	Tirunelveli
XI	Trichy
XII	Thanjavur
XIII	Thoothukudi
XIV	Tiruppur
XV	Vellore





**TAMILNADU POLLUTION CONTROL BOARD**  
**Ambient Air Quality and Noise Level Survey - Deepavali - 2021**  
**SAMPLING LOCATIONS**

Name of the City	No. of stations	AAQ Stations	Name of the City	No. of stations	NLS Stations
1. Chennai	1	Besant Nagar ( R )	1. Chennai	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 )
2. Chengalpet	6	Tambaram ( R )	2. Chengalpet	6	Tambaram ( R )
	7	Kavundampalayam( R )		7	Kavundampalayam( R )
3. Coimbatore	8	District Collectorate ( C )	3. Coimbatore	8	District Collectorate ( C )
	10	Imperial Road ( C )		9	Imperial Road ( C )
4. Cuddalore	11	Pudupalayam ( R )	4. Cuddalore	10	Pudupalayam ( R )
	12	Nagal Pudur ( R )		11	Nagal Pudur ( R )
5. Dindigul	13	Near Rajagopal Iyyangar & Sons ( C )	5. Dindigul	12	Near Rajagopal Iyyangar & Sons ( C )
	14	ESI Hospital ( S )		13	ESI Hospital ( S )
6. Hosur	15	INEL Transit House ( R )	6. Hosur	14	INEL Transit House ( R )
	16	Thirunagar ( R )		15	Thirunagar ( R )
7. Madurai	17	Birla Vishram ( M )	7. Madurai	16	Birla Vishram ( M )
	18	Water Tank Road (M)		17	Nagercoil
8. Nagercoil	19	Scott Christian College (R)	8. Nagercoil	18	Sri Saradha Balamandhir Boys Matric Hr. Sec. School ( R )
	20	Sri Saradha Balamandhir Boys Matric Hr. Sec. School ( R )		19	Siva Tower ( C&I )
9. Salem	21	Siva Tower ( C&I )	9. Salem	20	Siva Tower ( C&I )
	22	Town ( R )		21	Pettai ( S )
10. Tirunelveli	23	Pettai ( S )	10. Tirunelveli	22	Thillai Nagar ( R )
	24	Ramalinga Nagar ( R )		23	A. Arulandharmal Nagar(R)
11. Trichy	25	Gandhi Market ( C )	11. Trichy	24	Kumaran Complex ( C )
	26	A. Arokkia Nagar ( R )		25	Rayapuram ( R )
12. Thanjavur	27	Karunavathi Nagar (M)	12. Thanjavur	26	Raju Nagar ( R )
	28	Kumaran Complex ( C )		27	Gandhi Nagar ( R )
13. Tiruppur	29	Rayapuram ( R )	13. Tiruppur	28	Sidco Industrial Estate(I)
	30	Raju Nagar ( R )		29	Sidco Industrial Estate(I)
14. Thoothukudi	31	Ceiseeni Colony ( R )	14. Thoothukudi	30	Raju Nagar ( R )
	32	Gandhi Nagar ( R )		31	Ceiseeni Colony ( R )
15. Vellore	33	Sidco Industrial Estate(I)	15. Vellore	32	Gandhi Nagar ( R )
				33	Sidco Industrial Estate(I)

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





**Inference of Deepavali Report – 2021 in the State of Tamil Nadu Inference of monitoring of ambient noise and air pollution during Deepavali Festival – 2021 are furnished in the following Table – I and Table – II.**

**TABLE – I**

Sl. No.	City	NLS	
		Pre - Deepavali Day (29.10.2021)	Deepavali Day (04.11.2021)
		Leq dB(A)	Leq dB(A)
1.	Chennai	59	73
2.	Chengalpet	57	70
3.	Coimbatore	60	68
4.	Cuddalore	57	71
5.	Dindigul	50	72
6.	Hosur	61	67
7.	Madurai	62	78
8.	Nagercoil	54	62
9.	Salem	54	69
10.	Tirunelveli	53	68
11.	Trichy	63	72
12.	Thanjavur	58	74
13.	Tiruppur	58	63
14.	Thoothukudi	59	72
15.	Vellore	58	68

**Note:** The values reported should not be compared with prescribed noise level standards for designated areas as the values collected cannot be matched with time period (Daytime 6.00 a.m to 10.00 p.m and night time 10.00 p.m. to 6.00 a.m) as prescribed in the standards. From the above table, the Noise level values ranged from 50 (dBA to 62 dBA for Pre-Deepavali (29.10.2021) and from 63 dBA to 78 dBA for Deepavali (04.11.2021) in Tamil Nadu.



**TABLE - II**

Sl. No.	City	AAQ							
		Pre - Deepavali Day (28.10.2021 to 03.11.2021)		Deepavali Day (04.11.2021)				Post -Deepavali Day (05.11.2021 to 11.11.2021)	
		PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</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		PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )
<b>I.</b>	<b>Chennai</b>								
1.	Besant Nagar (R)	44	19	187	175	<b>342</b>	<b>VP</b>	50	21
2.	T.Nagar (C)	56	28	280	231	<b>385</b>	<b>VP</b>	43	19
3.	Nungabakkam (R)	49	23	283	210	<b>369</b>	<b>VP</b>	37	18
4.	Triplicane (R)	48	22	267	222	<b>378</b>	<b>VP</b>	40	19
5.	Sowcarpet (M)	58	29	268	212	<b>371</b>	<b>VP</b>	40	19
<b>II.</b>	<b>Chengalpet</b>								
6.	Tambaram (C)	56	21	266	86	<b>216</b>	<b>P</b>	47	15
<b>III.</b>	<b>Coimbatore</b>								
7.	Koundampalayam (R)	54	23	209	78	<b>173</b>	<b>M</b>	52	22
8.	District Collector Office (M)	56	26	203	88	<b>193</b>	<b>M</b>	48	21
<b>IV.</b>	<b>Cuddalore</b>								
9.	Imperial Road (C)	51	21	93	41	<b>93</b>	<b>S</b>	35	18
10.	Pudupalayam(R )	48	18	87	38	<b>87</b>	<b>S</b>	32	16
<b>V.</b>	<b>Dindigul</b>								
11.	Nagal Pudur (R)	66	28	117	42	<b>117</b>	<b>M</b>	73	28
12.	Rajagopal Iyengar & Sons (C )	78	32	138	48	<b>138</b>	<b>M</b>	94	36
<b>VI.</b>	<b>Hosur</b>								
13.	Inel Transit House (R)	41	19	100	42	<b>100</b>	<b>S</b>	59	24
14.	ESI Hospital (S)	38	19	56	24	<b>56</b>	<b>S</b>	46	20
<b>VII</b>	<b>Madurai</b>								
15.	Thirunagar (R)	49	16	132	40	<b>121</b>	<b>M</b>	49	20
16.	Birla Vishra (M)	66	23	166	44	<b>144</b>	<b>M</b>	56	25
<b>VIII.</b>	<b>Nagercoil</b>								
17.	Water Tank Road (M)	33	7	74	17	<b>74</b>	<b>S</b>	39	5
18.	Scott Christian college(R)	36	7	60	10	<b>60</b>	<b>S</b>	38	5

<b>IX.</b>	<b>Salem</b>								
19.	Sri Saradha Balamandhir School (R)	36	23	72	40	<b>72</b>	<b>S</b>	54	29
20.	Siva Tower (C)	41	18	79	42	<b>79</b>	<b>S</b>	63	33
<b>X.</b>	<b>Thanjavur</b>								
21.	Arokiya Nagar (R)	30	11	67	40	<b>67</b>	<b>S</b>	27	9
22.	Karunavathi Nagar (M)	40	17	76	46	<b>77</b>	<b>S</b>	35	11
<b>XI.</b>	<b>Thoothukudi</b>								
23.	Raju Nagar (R)	56	23	190	156	<b>328</b>	<b>VP</b>	47	16
24.	Cellsini Colony (R)	67	17	252	181	<b>347</b>	<b>VP</b>	55	18
<b>XII.</b>	<b>Tirunelveli</b>								
25.	Pettai (I)	43	14	63	15	<b>63</b>	<b>S</b>	43	10
26.	Town (R)	56	13	65	17	<b>65</b>	<b>S</b>	50	9
<b>XIII.</b>	<b>Tiruppur</b>								
27.	Rayapuram (R)	242	50	135	40	<b>123</b>	<b>M</b>	126	20
28.	Kumaran Complex (C)	179	63	248	18	<b>199</b>	<b>M</b>	128	18
<b>XIV.</b>	<b>Trichy</b>								
29.	Gandhi market (C)	57	17	80	29	<b>80</b>	<b>S</b>	51	16
30.	Ramalinga Nagar (R)	43	14	56	21	<b>56</b>	<b>S</b>	48	15
<b>XV.</b>	<b>Vellore</b>								
31.	Gandhi Nagar (R)	107	29	144	43	<b>129</b>	<b>M</b>	53	15
32.	SIDCO (I)	95	27	139	58	<b>126</b>	<b>M</b>	57	15

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**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.

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## **Interpretation of Heavy Metals in Chennai during Pre-Deepavali and Deepavali 2021 in five locations.**

### **1a. Besant Nagar in PM<sub>10</sub> (Residential)**

In Besant Nagar location Nickel was found to be 20.49 ng/m<sup>3</sup> on Deepavali day when compared to Pre-Deepavali period the value of Nickel ranges from BLQ (Below the limit of Quantification) to 7.5 ng/m<sup>3</sup> while during post Deepavali period due to heavy rain this year the values ranged from BLQ (Below the limit of Quantification) to 4.24 ng/m<sup>3</sup> indicating that the metal has been completely washed out in air.

### **1a. Besant Nagar in PM<sub>2.5</sub> (Residential)**

In Besant Nagar location Aluminium and Barium was found to be 376.07 ng/m<sup>3</sup> and 351.56 ng/m<sup>3</sup> respectively on Deepavali day when compared to Pre-Deepavali where the values were BLQ (Below the limit of Quantification) for both the metals. The value of Aluminium dropped from BLQ (Below the limit of Quantification) to 4.24 ng/m<sup>3</sup> and the value of Barium dropped BLQ (Below the limit of Quantification) to 3.48 ng/m<sup>3</sup> during the post Deepavali period due to heavy rain this year indicating that the metal has been completely washed out in air.

### **2a. T. Nagar in PM<sub>10</sub> (Commercial)**

In T. Nagar location the value of Nickel was found to be 14.28 ng/m<sup>3</sup> on Deepavali day when compared to Pre-Deepavali period the value of Nickel ranges from 2.66 ng/m<sup>3</sup> to 6.83 ng/m<sup>3</sup> while during post Deepavali period due to heavy rain this year the values ranged from BLQ (Below the limit of Quantification) to 10.28 ng/m<sup>3</sup> indicating that the metal has been completely washed out in air.

### **2b. T. Nagar in PM<sub>2.5</sub> (Commercial)**

In T. Nagar location Aluminium and Barium was found to be 232.73 ng/m<sup>3</sup> and 206.64 ng/m<sup>3</sup> respectively on Deepavali day when compared to Pre-Deepavali where the values were 9.81 ng/m<sup>3</sup> and 11.65 ng/m<sup>3</sup> for both the metals. The value of Aluminium dropped to BLQ (Below the limit of Quantification) from 14.33 ng/m<sup>3</sup> and the value of Barium dropped to BLQ (Below the limit of Quantification) from 25.44 ng/m<sup>3</sup> during the post Deepavali period due to heavy rain this year indicating that the metal has been completely washed out in air.

### **3a. Nungambakkam in PM<sub>10</sub> (Residential)**

In Nungambakkam location the value of Nickel was found to be 15.09 ng/m<sup>3</sup> on Deepavali day when compared to Pre-Deepavali period the value of Nickel ranges from 3.08 ng/m<sup>3</sup> to 7.65 ng/m<sup>3</sup> while during Post Deepavali period due to heavy rain this year the values dropped from 2.43 ng/m<sup>3</sup> to 8.00 ng/m<sup>3</sup> indicating that the metal takes five days to reach the background level of 2.0-3.0 ng/m<sup>3</sup>.

### **3b. Nungambakkam in PM<sub>2.5</sub> (Residential)**

In Nungambakkam location Aluminium and Barium was found to be 395.05 ng/m<sup>3</sup> and 325.26 ng/m<sup>3</sup> respectively on Deepavali day when compared to Pre-Deepavali where the values were 8.62 ng/m<sup>3</sup> and 25.47 ng/m<sup>3</sup> respectively. The value of Aluminium and Barium dropped from to BLQ (Below the limit of Quantification) from 12.63 ng/m<sup>3</sup> for Aluminium and from BLQ (Below the limit of Quantification) to 28.31 ng/m<sup>3</sup> during the post Deepavali period due to heavy rain this year indicating that the metal has been completely washed out in air.

### **4a. Triplicane in PM<sub>10</sub> (Residential)**

In Triplicane location the value of Nickel was found to be 15.33 ng/m<sup>3</sup> on Deepavali day when compared to Pre-Deepavali. The value of Nickel ranges from BLQ (Below the limit of Quantification) to 6.01 ng/m<sup>3</sup> While during Post Deepavali period due to heavy rain this year the values dropped to 2.27 ng/m<sup>3</sup> indicating that the metal takes five days to reach the background level of 2.0-3.0 ng/m<sup>3</sup>.

### **2b. Triplicane in PM<sub>2.5</sub> (Residential)**

In Triplicane location Aluminium and Barium was found to be 334.41 ng/m<sup>3</sup> and 305.77 ng/m<sup>3</sup> respectively on Deepavali day when compared to Pre-Deepavali where the values were 10.32 ng/m<sup>3</sup> and 12.18 ng/m<sup>3</sup> respectively. The value of Aluminium and Barium dropped to BLQ (Below the limit of Quantification) during the Post Deepavali period due to heavy rain this year indicating that the metal has been completely washed out within a week.

#### **5a. Sowcarpet in PM<sub>10</sub> (Commercial)**

In Sowcarpet location Nickel was found to be 16.15 ng/m<sup>3</sup> on Deepavali day when compared to Pre-Deepavali. The value of Nickel ranges from BLQ (Below the limit of Quantification) to 13.32 ng/m<sup>3</sup> While during Post Deepavali period due to heavy rain this year the values dropped to 4.67 ng/m<sup>3</sup> indicating that the metal takes more than five days to arrive the background level of 2.0-3.0 ng/m<sup>3</sup> in spite of heavy rain.

#### **5b. Sowcarpet in PM<sub>2.5</sub> (Commercial)**

In Sowcarpet location Aluminium and Barium was found to be 481.35 ng/m<sup>3</sup> and 473.78 ng/m<sup>3</sup> respectively on Deepavali day when compared to Pre-Deepavali where the values were maximum 32.64 ng/m<sup>3</sup> and 28.6 ng/m<sup>3</sup> respectively. The value of Aluminium and Barium dropped to BLQ (Below the limit of Quantification) during the Post Deepavali period due to heavy rain this year indicating that the metal has been completely washed out in the air.

