

Action taken report – Diwali, 2019

- Request letter were sent to the Collector – cum – District Magistrate, Puducherry; Director General of Police, Puducherry; District Collector – cum – District Magistrate, Karaikal; Sr. Superintendent of Police (L&O), Puducherry; Deputy Collector (Revenue) – cum – Sub Divisional Magistrate, Puducherry; Deputy Collector (Revenue) – cum – Sub Divisional Magistrate, Karaikal; Regional Administrator – cum – Sub – Divisional Magistrate, Mahe; Regional Administrator – cum – Sub – Divisional Magistrate, Yanam; Superintendent of Police (North), Puducherry; Superintendent of Police (South) Puducherry; Superintendent of Police, Karaikal; Superintendent of Police, Mahe and the Inspector of Police, Yanam for necessary action to implement the order of Hon'ble Supreme Court strictly.
- The Director, Directorate of School Education was requested to circulate the order of the Hon'ble Supreme Court to instruct all Heads of institutions / teachers of schools to conduct awareness programmes for the students about the ill-effects of noise pollution.
- The Director, Directorate of Higher and Technical Education was requested to circulate the order of the Hon'ble Supreme Court and to instruct all Heads of institutions / lecturers / professors of Colleges / Educational Institutions to conduct awareness programmes for the students about the ill effects of noise pollution.
- The Director, Doordarshan and Station Director, All India Radio, were also requested to make necessary arrangements to telecast and broadcast press note according to the direction of Hon'ble Supreme Court through the respective medias of Doordarshan and AIR and also requested to telecast/broadcast the ill effects of noise due to bursting of crackers on the occasion of Diwali festival.
- The Director, Information and Publicity Department was requested to make necessary arrangements to publish the press note as directed by Hon'ble Supreme Court in the News Papers at free of cost covering all the regions of our Territory and was also requested to make necessary arrangements to publish the awareness material depicting the ill effects of bursting of crackers in the media at free of cost covering all the regions of our Territory.
- 14 days monitoring was carried out at two locations (Commencing 7 days prior to Diwali and ending 7 days after Diwali) as per the Hon'ble Supreme Court Direction and as instructed by Central Pollution Control Board.
- Ambient air quality monitoring and Noise Monitoring were carried out by the Lab staff of DSTE/PPCC on Normal day and on Diwali day as being carried out every year.

PUDUCHERRY POLLUTION CONTROL COMMITTEE
ENVIRONMENTAL ANALYTICAL LABORATORY

Format of Report: Diwali Monitoring 2019

| | | |
|-----------------------|---|--|
| City | : | Puducherry |
| Climate / Meteorology | : | 1. Clear (Normal Day) 2. Clear (Diwali Day) |
| Major Land use | : | Residential |
| Monitoring Location | : | Mudaliarpet |
| Area | : | Residential |
| Activity | : | Two Wheeler movement |
| Data / Observations | : | Noise Level during Diwali Festival 2019 |

| Location A | Normal Day(21.10.2019) | | | Diwali Day (27.10.2019) | | |
|--|------------------------|--------------|--------------|-------------------------|---------------|--------------|
| Time Duration | Lmin | Lmax | Leq dB(A) | Lmin | Lmax | Leq dB(A) |
| 18.00 to 19.00 Hr | 51.5 | 90.1 | 70.2 | 62.1 | 118.7 | 95.5 |
| 19.00 to 20.00 Hr | 50.7 | 91.7 | 73.2 | 59.5 | 108.9 | 88.8 |
| 20.00 to 21.00 Hr | 51.4 | 89.2 | 71.0 | 55.8 | 115.0 | 92.3 |
| 21.00 to 22.00 Hr | 49.7 | 87.3 | 68.7 | 53.3 | 118.9 | 88.7 |
| 22.00 to 23.00 Hr | 50.9 | 84.4 | 62.4 | 53.1 | 108.6 | 74.7 |
| 23.00 to 24.00 Hr | 50.7 | 83.7 | 62.7 | 51.0 | 83.4 | 60.0 |
| Average Lequivalent dB(A) between (18.00 to 24.00 hours) | - | - | 68.03 | - | - | 83.33 |
| Lmax between (18.00 to 24.00 hours) | - | 87.73 | - | - | 108.92 | - |
| Lmin between (18.00 to 24.00 hours) | 50.82 | - | - | 55.80 | - | - |

Observation:

- The Noise survey result reveals that there is an increase in ambient noise level on the day of Diwali in comparison to the normal day.
- The average L equivalent dB(A) monitored between 18.00 and 24.00 Hours is higher on Diwali day when compared to normal day.
- The main contributor to the ambient noise level in the said location is the two wheeler movement. Whereas, increase in the ambient noise level during Diwali festival is due to bursting of crackers and also due to two wheeler movement. However, the noise levels due to bursting of crackers were found to be within the Hon'ble Supreme Court directive on noise level of 125 dB(A).

Ambient Air Monitoring during Diwali Festival, 2019

| Ambient Air Quality during Diwali 2019 | | | | | | |
|---|-------------------------|-----------------|------------------|-------------------------|-----------------|------------------|
| Monitoring Location | Parameters Monitored | | | | | |
| | Normal Day (24.10.2019) | | | Diwali Day (27.10.2019) | | |
| | SO ₂ | NO ₂ | PM ₁₀ | SO ₂ | NO ₂ | PM ₁₀ |
| Anna Nagar, Puducherry | 6.1 | 17.3 | 45.0 | BDL | 10.2 | 175 |
| Monitoring Location | Parameters Monitored | | | | | |
| | Normal Day (18.10.2019) | | | Diwali Day (27.10.2019) | | |
| | SO ₂ | NO ₂ | PM ₁₀ | SO ₂ | NO ₂ | PM ₁₀ |
| Kovilpathu, Karaikal | BDL | BDL | 39.0 | 5.8 | 10.2 | 77 |
| NAAQ Standards | 80 | 80 | 100 | 80 | 80 | 100 |
| All values (24 hourly Average) are in $\mu\text{g}/\text{m}^3$ Parameters Detection Limit: SO ₂ – 4 $\mu\text{g}/\text{m}^3$ and NO ₂ - 9 $\mu\text{g}/\text{m}^3$ | | | | | | |

Remarks/Observation:

Puducherry:

Monitoring report reveals that the 24 hourly average concentration of Particulate Matter was found to be higher on the day of Diwali (175 $\mu\text{g}/\text{m}^3$) may be due to bursting of crackers in comparison to Normal day (45 $\mu\text{g}/\text{m}^3$). 24 Hourly concentration of Particulate Matter measured on Diwali 2019 is above the prescribed standard limit of 100 $\mu\text{g}/\text{m}^3$. The concentration of gaseous pollutants viz., SO₂ and NO₂ are within the prescribed standard limit of 80 $\mu\text{g}/\text{m}^3$.

Air Quality Index (AQI) on Diwali day falls under Moderate category and on Normal day in good category.

Karaikal:

Monitoring report reveals that the 24 hourly average concentration of Particulate Matter was found to be higher on the day of Diwali (77 $\mu\text{g}/\text{m}^3$) may be due to bursting of crackers in comparison to Normal day (39 $\mu\text{g}/\text{m}^3$). 24 Hourly concentration of Particulate Matter measured on Diwali 2019 is within the prescribed standard limit of 100 $\mu\text{g}/\text{m}^3$. The concentration of gaseous pollutants viz., SO₂ and NO₂ are within the prescribed standard limit of 80 $\mu\text{g}/\text{m}^3$.

Air Quality Index (AQI) on Diwali day falls under satisfactory category and on Normal day in good category.