

Pollution Control, Board, Assam

Bamunimaidam, Guwahati-781021

Ambient Noise Level (in dB[A] during Deepawali Festival-2023 of Guwahati City

Pollution Control Board, Assam (PCBA) has been carrying out ambient noise levels monitoring at various locations in Guwahati city as well as in other selected towns of Assam as per the monitoring protocol provided by the Central Pollution Control Board, Delhi, since the last many years to assess the impact of firecrackers bursting on ambient air quality and ambient noise levels. This year, Ambient Noise Level monitoring was carried out at three (3) different places in Guwahati city viz.

- (1) Ulubari (Residential area),
- (2) Ganeshguri (Commercial area)
- (3) Panbazar (Silence area)

The data obtained through this monitoring before Deepawali and during Deepawali day-2023 is presented below:

Location	Ulubari, Guwahati					
Date	06.11.23 (before Deepawali)			12.11.23 (during Deepawali)		
Time:	L _{min}	L _{max}	Leq	L _{min}	L _{max}	Leq
6.00 PM to 7.00 PM	58.7	84.7	70.7	61.3	72.7	65.3
7.00 PM to 8.00 PM	56.5	85.3	66.1	56.1	101.0	72.9
8.00 PM to 9.00 PM	55.8	81.3	66.5	58.9	105.4	74.6
9.00 PM to 10.00 PM	53.2	83.9	64.3	57.0	105.1	79.6
10.00 PM to 11.00 PM	53.8	87.5	65.4	56.2	96.2	73.1
11.00 PM to 12.00 AM	52.6	82.3	62.7	55.5	81.2	66.3
Average Leq dB(A)			66.0			72.0
Ambient Noise Standards in dB (A)						
During day time (between 6.00 AM & 10PM)			During night time (between 10.00 PM & 6.00 AM)			
Industrial Zone	75		Industrial Zone	70		
Commercial Zone	65		Commercial Zone	55		
Residential Zone	55		Residential Zone	45		
Silence Zone	50		Silence Zone	40		

Location	Ganeshguri, Guwahati					
Date	06.11.23 (before Deepawali)			12.11.23 (during Deepawali)		
Time:	L _{min}	L _{max}	Leq	L _{min}	L _{max}	Leq
6.00 PM to 7.00 PM	58.9	95.6	70.6	58.0	96.8	69.7
7.00 PM to 8.00 PM	58.0	89.8	69.6	57.6	114.5	75.9
8.00 PM to 9.00 PM	57.5	94.6	68.0	59.0	100.7	71.4
9.00 PM to 10.00 PM	56.3	87.7	67.1	56.1	100.8	72.0
10.00 PM to 11.00 PM	55.1	87.1	65.2	56.7	102.3	70.9
11.00 PM to 12.00 AM	48.7	65.8	54.8	54.5	101.1	70.1
Average Leq dB(A)			65.9			71.7
Ambient Noise Standards in dB (A)						
During day time (between 6.00 AM & 10PM)			During night time (between 10.00 PM & 6.00 AM)			
Industrial Zone	75		Industrial Zone	70		
Commercial Zone	65		Commercial Zone	55		
Residential Zone	55		Residential Zone	45		
Silence Zone	50		Silence Zone	40		

Member Secretary
Pollution Control Board
Assam, Guwahati-21

[Signature]
13. 11. 2023

Location	Panbazar, Guwahati					
Date	06.11.23 (before Deepawali)			12.11.23 (during Deepawali)		
Time:	L _{min}	L _{max}	Leq	L _{min}	L _{max}	Leq
6.00 PM to 7.00 PM	45.9	77.6	59.1	48.1	100.6	74.8
7.00 PM to 8.00 PM	45.0	79.2	62.2	47.2	121.9	87.9
8.00 PM to 9.00 PM	44.9	81.8	58.0	46.7	102.9	76.4
9.00 PM to 10.00 PM	40.6	79.6	57.0	45.2	109.8	79.7
10.00 PM to 11.00 PM	39.1	84.1	57.2	44.7	112.1	81.8
11.00 PM to 12.00 AM	38.8	72.6	53.4	37.8	100.2	72.5
Average Leq dB(A)			57.8			78.9

Ambient Noise Standards in dB (A)			
During day time (between 6.00 AM & 10PM)		During night time (between 10.00 PM & 6.00 AM)	
Industrial Zone	75	Industrial Zone	70
Commercial Zone	65	Commercial Zone	55
Residential Zone	55	Residential Zone	45
Silence Zone	50	Silence Zone	40

Comparison of Ambient Noise Level (in dB(A)) of 2022 and 2023 of Guwahati City during Deepawali Festival

Location	Before Deepawali		During Deepawali	
	18.10.2022	06.11.2023	25.10.2022	12.11.2023
	Average Leq dB(A)		Average Leq dB(A)	
Ulubari	62.2	66.0 ↑	73.6	72.0 ↓
Ganeshguri	64.1	65.9 ↑	74.6	71.7 ↓
Panbazar	57.6	57.8 ↑	74.6	78.9 ↑

From the results, it is observed that this year, before Deepawali (i.e. on 06-11-2023) the Ambient Noise Level of all the three(3) locations of Guwahati City were higher compared to last year (i.e. 18-10-2022). But during Deepawali day (i.e. 12-11-2023), the Ambient Noise Level of Ulubari and Ganeshguri is observed to be lower compared to 2022 (i.e. 25-10-2022) except Panbazar. However, the Ambient Noise Levels of all these locations are observed to be above the prescribed standard for Residential, Commercial and Silence areas.


 Member Secretary
 Pollution Control Board
 Assam, Guwahati-21