

## Noise Pollution

### Status of Ambient Noise Level in Delhi - 2005

The ambient noise monitoring was conducted at eight locations in Delhi during September-October, 2005. The objective of this study was to assess traffic noise exposure on residents living adjacent to major roads in Delhi.

#### Ambient Noise levels in Delhi

S. No.	Monitoring Site	Date	Time	Noise Levels		
				L <sub>eq</sub> dB(A)	L <sub>10</sub> dB(A)	L <sub>90</sub> dB(A)
1	Bhagirathi Water Treatment Plant Gokulpuri	5.9.2005	Night time	66.9	70.1	55.5
		6.9.2005	Day time	67.1	69.8	61.3
2	Tarang Apartment, IP Extension	7.9.2005	Night time	62.7	65.5	55.9
		8.9.2005	Day time	62.2	64.5	57.9
3.	Narauji Nagar F- Block	19.9.2005	Night time	63.2	66.6	55.1
		20.9.2005	Day time	64.4	66.2	60.1
4.	CSIR Apartment, Ashram Chowk	21.9.2005	Night time	69.1	71.2	64.0
		22.9.2005	Day time	69.0	71.0	65.4
5.	DOERA, Shankar Vihar	26.9.2005	Night time	68.3	70.2	62.3
		27.9.2005	Day time	66.2	68.4	62.3
6.	Shalimar Bagh	28.9.2005	Night time	69.4	73.0	58.9
		29.9.2005	Day time	70.1	73.0	63.5
7.	Paschim Vihar	05.10.2005	Night time	63.0	66.5	52.6
		6.10.2005	Day time	67.1	69.4	60.9

Note: Night time -10:00PM - 06:00 AM, Day time - 06:00 AM - 10:00 PM  
 \*Ambient Noise Standards for Residential area: Day Time: 55 dB(A) Night Time : 45 dB(A)

The ambient noise standards prescribed in the Noise Pollution (Regulation & Control) Rules, 2000, specify the ambient noise standard for residential area for day time (06:00 A.M to 10:00 P.M) and night time (10:00 P.M to 06:00 A.M) as 55 dB(A) and 45 dB(A) respectively. The monitoring results indicated that the ambient noise levels

for both day time as well as night time at all eight locations are much higher than the prescribed standards.

### Ambient Noise Monitoring at Proposed Commonwealth Games Village near Akshardham Temple

On the request of Delhi Development Authority (DDA), the Central Pollution Control Board conducted noise monitoring to assess noise levels at the proposed site for Commonwealth Games-2010 near Akshardham Temple during 20.10.2005 to 23.10.2005. The proposed site is situated on the east of River Yamuna between National Highway (NH) 24 and the Railway Track behind Akshardham Temple.

The noise parameters recorded were  $L_{eq}$ ,  $L_{10}$ ,  $L_{50}$  and  $L_{90}$  for 16 hrs (day time – 6:00 a.m. to 10:00 p.m.) and for 8 hrs (night time – 10:00 p.m. to 6:00 a.m.) for all the six locations. Day time Sound Levels at locations 1 & 3 only conformed to the day time ambient noise standard of 55 dBA, whereas day time sound levels at other locations marginally exceeded the day time ambient noise standards. Night time sound levels at all the locations exceeded the night time ambient noise standard of 45 dBA. DDA was recommended to look into the possibility of providing Sound Barriers and taking other administrative steps to reduce noise pollution.

### Ambient Noise Levels at the Proposed Site for the Commonwealth Games – 2010

S. No.	Date of monitoring	Day Time* Noise Level in dB(A)			Night Time** Noise Level in dB(A)			Remarks
		$L_{eq}$	$L_{10}$	$L_{90}$	$L_{eq}$	$L_{10}$	$L_{90}$	
1.	20 to 21 Oct 05	52.4	55.4	45.3	53.5	55.5	49.2	Night -time noise levels are much more due to heavy traffic
2.	20 to 21 Oct 05	55.6	58.7	49.0	56.3	58.5	51.9	Night -time noise level are much more due to heavy traffic
3.	21 to 22 Oct 05	52.5	53.5	44.2	51.0	53.1	47.5	-
4.	21 to 22 Oct 05	55.8	57.8	47.9	53.2	54.6	49.1	-
5.	22 to 23 Oct 05	59.2	60.1	50.9	56.6	69.3	59.1	The data do not represent traffic noise due to Sunday. Some local noise was also present.
6.	22 to 23 Oct 05	56.7	58.3	45.3	54.7	55.2	46.0	

**Note:** Ambient Noise standards in terms of  $L_{eq}$  for residential area is 55 dB(A) for Day Time and 45 dB(A) for Night Time.

\*Day Time : 06:00 A.M to 10:00 P.M \*\*Night Time: 10:00 P.M to 06:00 A.M