

Status of Noise Level in Jaipur City



Prepared By
**RAJASTHAN STATE POLLUTION CONTROL
BOARD**

PREFACE

Rajasthan State Pollution Control Board acknowledges the efforts of all the Board Officials associated with this work for monitoring the noise level at different locations in Jaipur city as per the provisions of Noise Pollution (Regulation & Control) Rules, 2000. It would not have been possible to compile this report on Status of Noise Level in Jaipur City without their sincere support and efforts.

CONTRIBUTIONS

Overall Supervision : Sh. B.R.Chauhan, CSO

Co-ordinators : Sh. S.N.Tikkiwal, SSO

Report Preparation & : Ms Prasputita Nanda, JSO

Data Compilation Dr. Vimal Poswal, JSO

Monitoring Team : Ms. Sheeba, SO, Dr. Manoj Meena, JSO,
Ms. Prasputita Nanda, JSO, Dr. Vimal Poswal,
JSO, Ms. Suman Jhajharia, JSO, Dr Sanjeev
Kumar Sharma, JSO, Ms Vandana Chaturvedi,
JSO, Dr. Narain Bhoot, JSO, Sh OP Shardul,
JSO, Ms Perna Lamba, JSO, Ms. Garima
Mishra, JSO, Sh. Gaurav Singh, Intern.



Status of Noise Level in Jaipur City

Background:

In order to assess the impact of predominating Noise Level in Jaipur city, Noise Level Monitoring was conducted at 6 different locations in Jaipur City from September to November, 2017.

The Noise level monitoring was conducted day time (1100 hrs to 2200 hrs) and night time (2200 hrs onwards) for half hour interval at each location with sampling frequency of one second.

Monitoring Locations:

In order to maintain uniformity in monitoring, Residential, Commercial, and Silence zones were selected in respect of Noise Standards prescribed under the provisions of Noise Pollution (Regulation & Control) Rules, 2000. The monitoring network consisted of a total of 6 noise monitoring locations in Jaipur City.

S. No.	Name of the monitoring locations in Jaipur City	Category of Area / Zone
1	Garden Behind Governor House, Civil Lines	Silence
2	Nagar Nigam Office, Patel Marg, Mansarovar	Residential
3	Science Park, Shastri Nagar	Residential
4	Gali No. 3, Raja Park	Commercial
5	Near Kotwali Thana, Chhoti Choupar	Commercial
6	Outside Outdoor of SDMH	Silence

Monitoring Results:

The comparative statement of noise level monitoring conducted in Jaipur City is as under:



Status of Noise Level in Jaipur City

Table 2

Comparative Statement of Noise Level in Leq dB(A) of Jaipur City												
Monitoring Period	Monitoring Location											
	Garden Behind Governor House, Civil Lines		Nagar Nigam Office, Patel Marg, Mansarovar		Science Park, Shastri Nagar		Gali No. 3, Raja Park		Near Kotwali Thana, Chhoti Choupar		Outside Outdoor of SDMH	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
September, 2017	61.6	57.4	55.0	54.0	72.0	63.4	71.4	70.0	74.1	68.6	69.3	62.6
October, 2017	62.7	56.6	59.1	52.2	72.1	63.6	70.3	60.9	71.6	62.1	82.3	79.6
November, 2017	60.1	56.5	64.4	61.8	74.2	58.1	73.1	72.7	77.5	70.5	71.5	64.8
December, 2017	63.4	54.8	68.7	63.5	76.2	60.1	67.2	67.8	79.6	73.7	70.5	64.4

Noise level Standards in Leq dB(A)

Category of Area / Zone	Day	Night
Silence	50.0	40.0
Residential	55.0	45.0
Commercial	65.0	55.0

Interpretation:

Comparison of Noise level of all monitoring locations from September to December, 2017 is at **Figure 1 & 2** and Comparison of Noise level of all monitoring locations from Day time to Night time is at **Figure 3 to Figure 6**.

Fig. 1 - Noise Level during Day time from September to December in Jaipur City

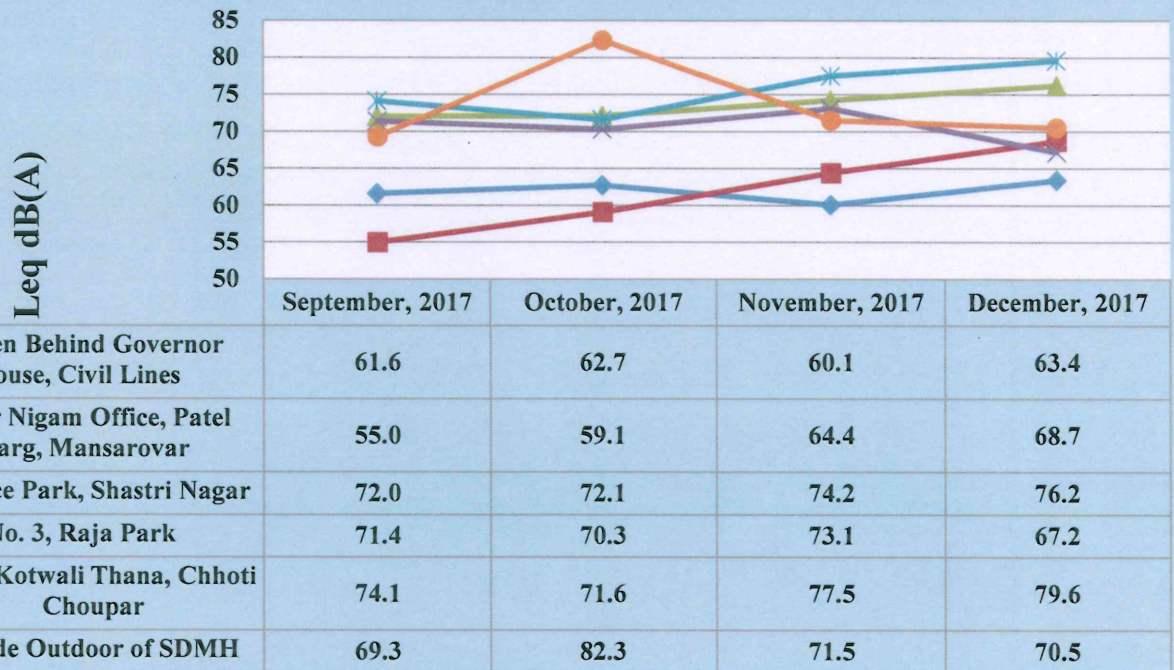


Fig.2 - Noise Level during Night time from September to December in Jaipur City

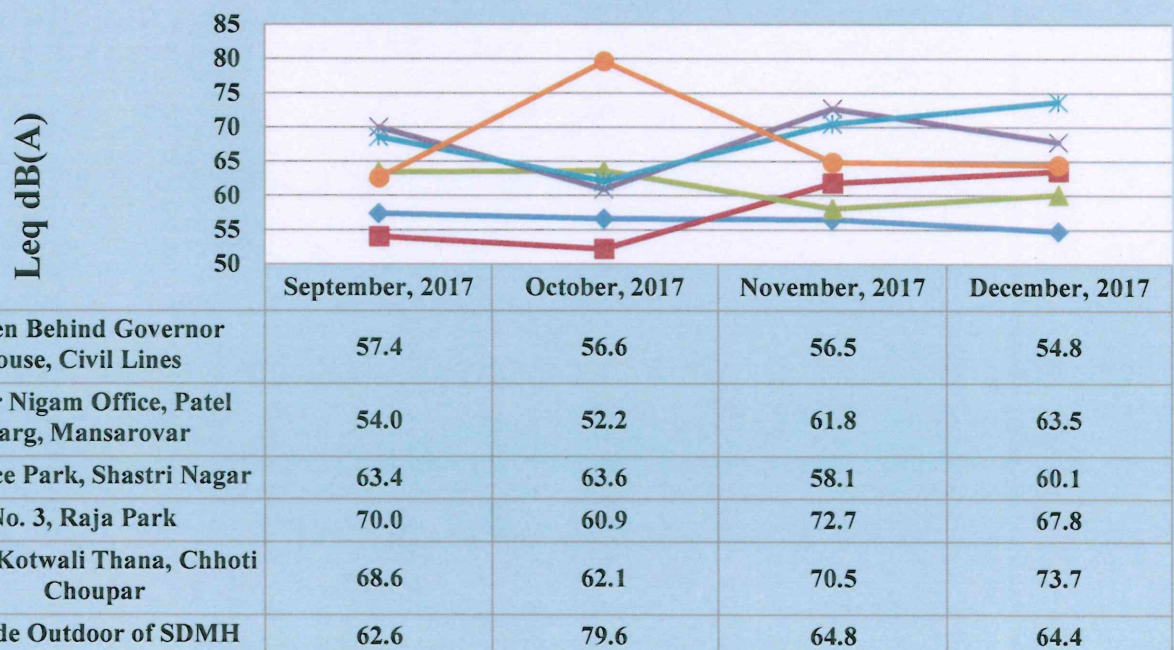


Fig. 3 - Noise Level in Jaipur City during Day & Night time in September

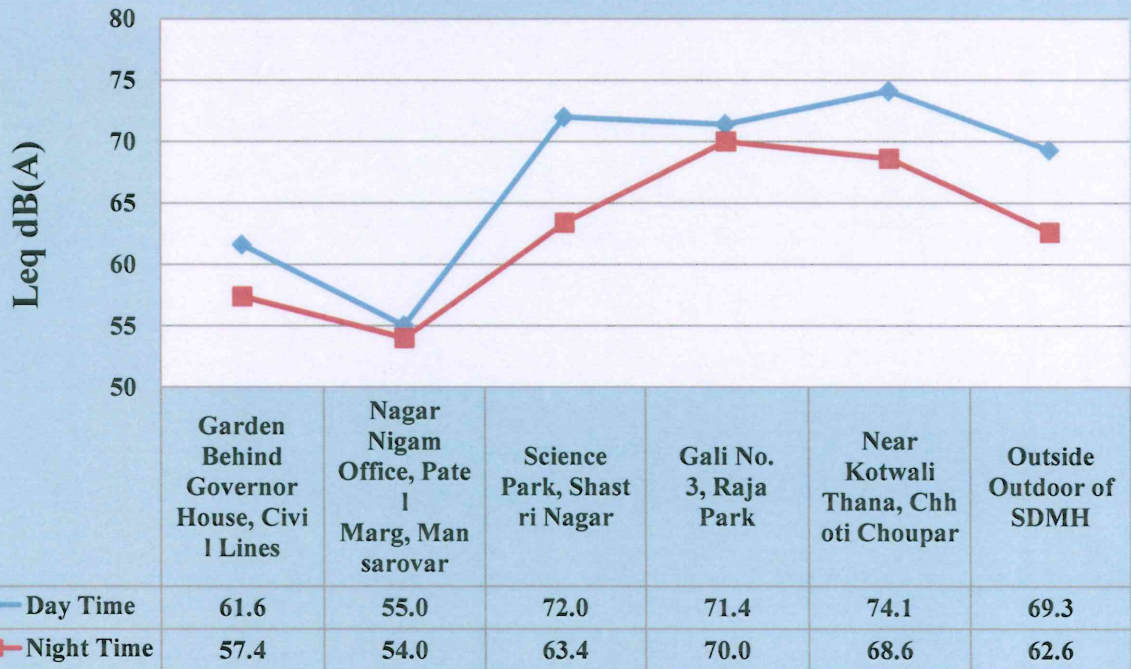


Fig. 4 - Noise Level in Jaipur City during Day & Night time in October

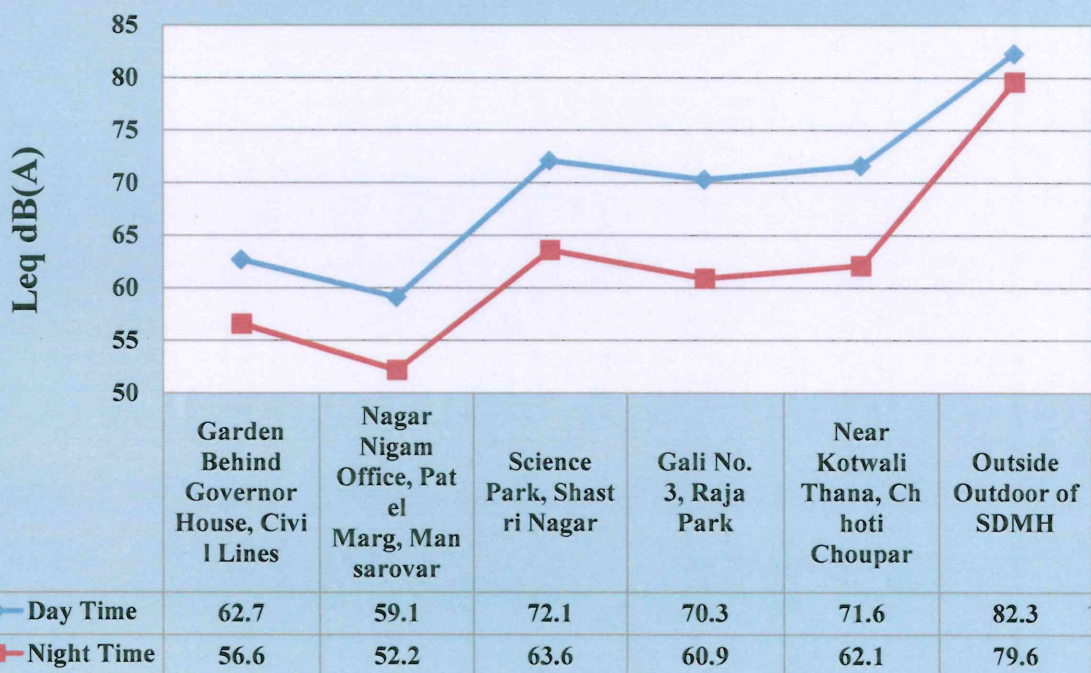


Fig. 5 - Noise Level in Jaipur City during Day & Night time in November

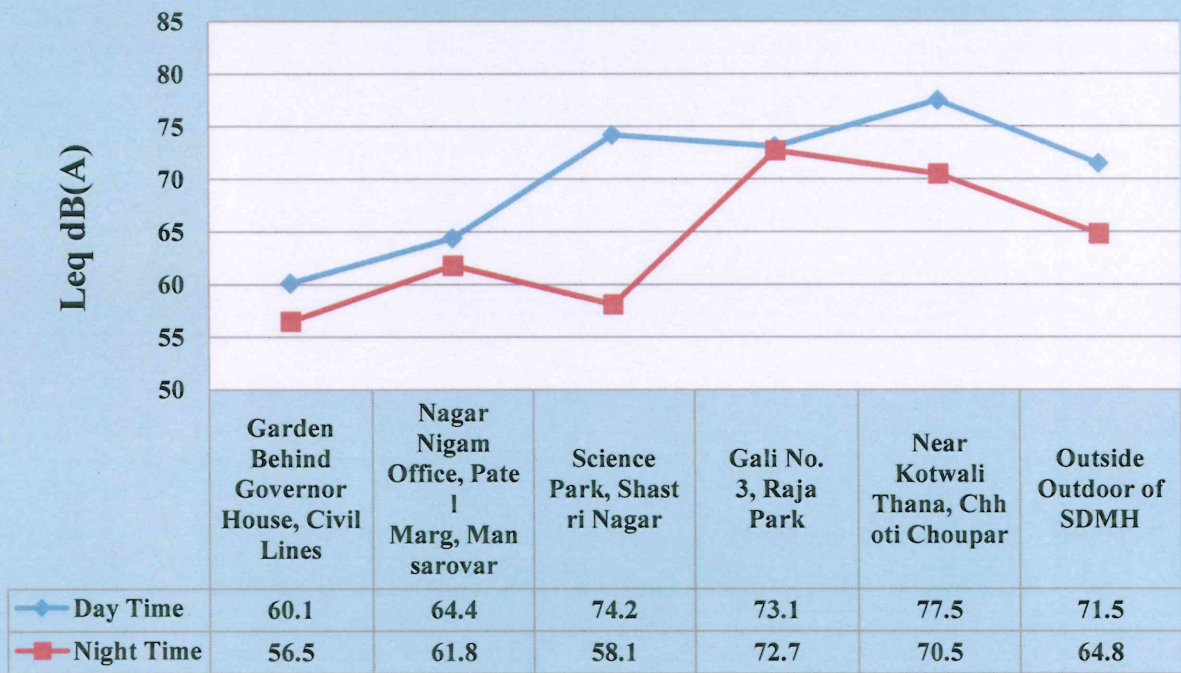
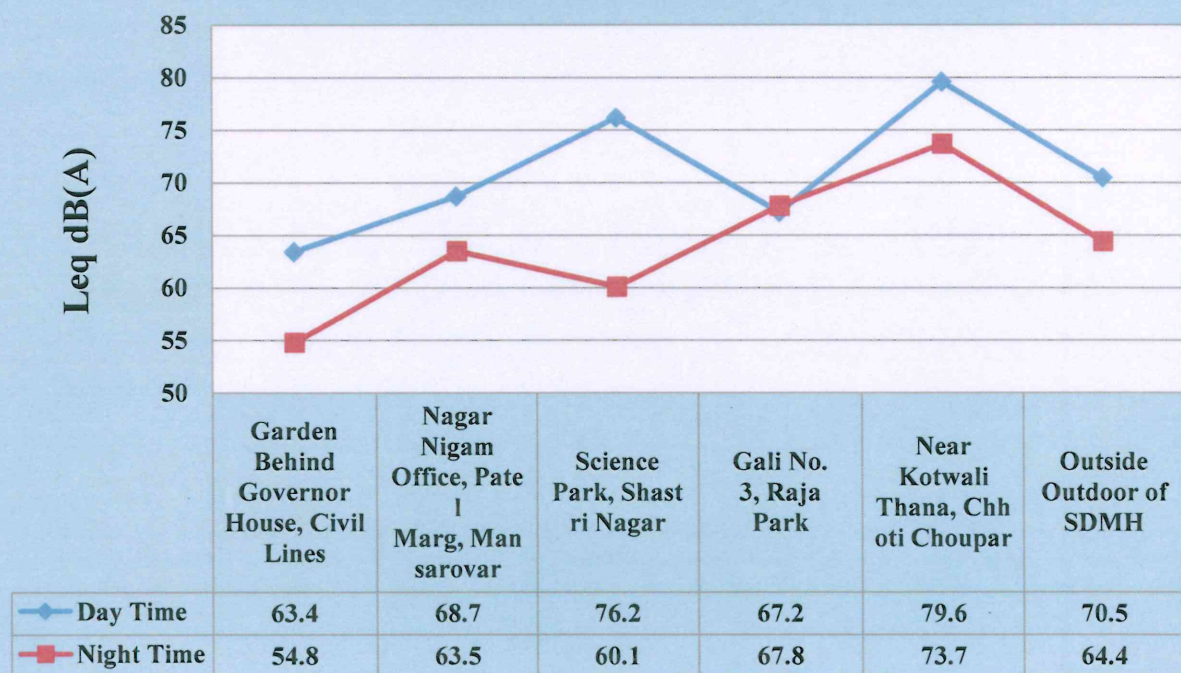


Fig. 6 - Noise Level in Jaipur City during Day & Night time in December





Conclusion:

During the monitoring period, the concentration of Leq dB(A) has exceeded the prescribed standards both during day and night time except at Nagar Nigam Office, Patel Marg, Mansarovar during day time in September, 2017.

It has also been observed that there is no specific trend in data during the entire monitoring period i.e. from September to November at all monitoring locations except at Garden behind Governor House, Civil Lines during night time where the concentration of noise level has decreased from September to November. When the trend of noise level observed during day is compared to the noise level observed during night time, it is found that the concentration of noise level decreases from day time to night time at all locations except at Gali No. 3, Raja Park in December, 2017.

For further details, contact:

Smt. Aparna Arora,
Chairperson,
Rajasthan State Pollution Control Board,
Email:- chairperson@rpcb.nic.in

Sh. K. C. A. Arun Prasad,
Member Secretary,
Rajasthan State Pollution Control Board,
Email:- member-secretary@rpcb.nic.in
Contact No.: 0141-5159600, 5159699
Fax: 5159697

Sh. B.R.Chauhan,
Chief Scientific Officer,
Rajasthan State Pollution Control Board,
lab.rpcb@gmail.com
Contact No.: 0141-5159607