

Status of Noise Level In Jaipur City
(January to June, 2021)



Rajasthan State Pollution Control Board

Foreword



Rajasthan State Pollution Control Board is entrusted with duties to enforce provisions of Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Noise Pollution (Regulation & Control) Rules, 2000, Authorization under the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016, Authorization under Bio-Medical Waste (Management and Handling) Rules, 2016 and Plastic Waste Management Rules, 2016. Measurement of noise is a very important step to prepare scientific action plan for control of noise pollution.

I am pleased to present the Rajasthan State Pollution Control Board the report on Status of Noise Level in Jaipur City from January to June, 2021 which 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 without their sincere support and efforts.

(Veenu Gupta)
Chairperson

Foreword



Noise pollution refers to sounds in the environment that are caused by human and that threaten the health or welfare of human or animal inhabitants. Rajasthan State Pollution Control Board shall collect, compile and publish technical and statistical data relating to noise pollution and measures devised for its effective prevention, control and abatement. Rajasthan State Pollution Control Board conducts study on Noise Level Monitoring in Jaipur City at 6 different locations throughout the year.

This report is a compilation of results and observations of the study conducted of Noise Level monitoring data of the Jaipur City from January to June, 2021. The data of previous year have also been incorporated so as to analyse the trend in noise levels on long term basis.

I sincerely acknowledge the effort of all officials associated with the work for monitoring of noise pollution levels. It would not have been possible to compile and complete this report on the issue without their sincere support and efforts.

(Anand Mohan)
Member Secretary



Background:

In order to assess the impact of predominating Noise Level in Jaipur city, Rajasthan State Pollution Control Board conducts study on Noise Level Monitoring in Jaipur City at 6 different locations throughout the year. This report is a compilation of results and observations of the study conducted from January to June, 2021.

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.

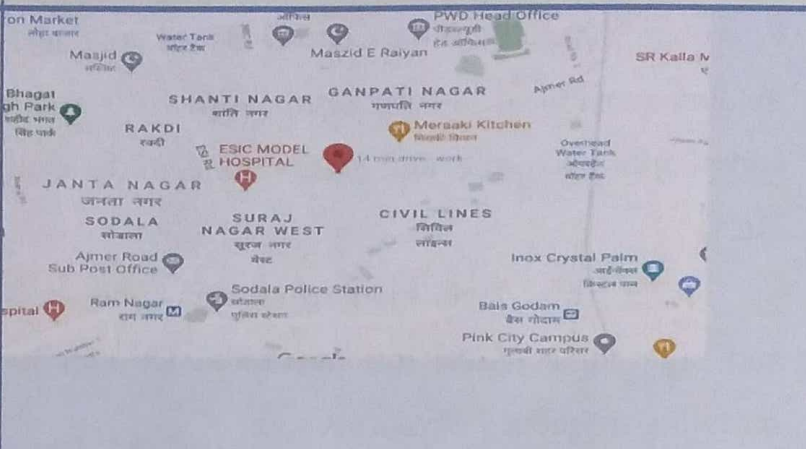
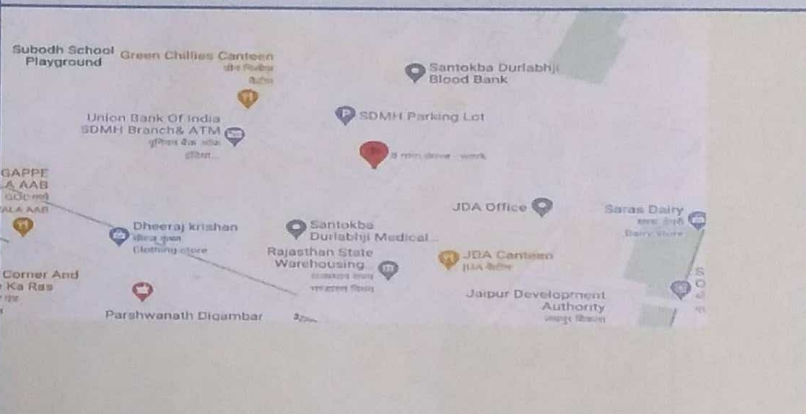
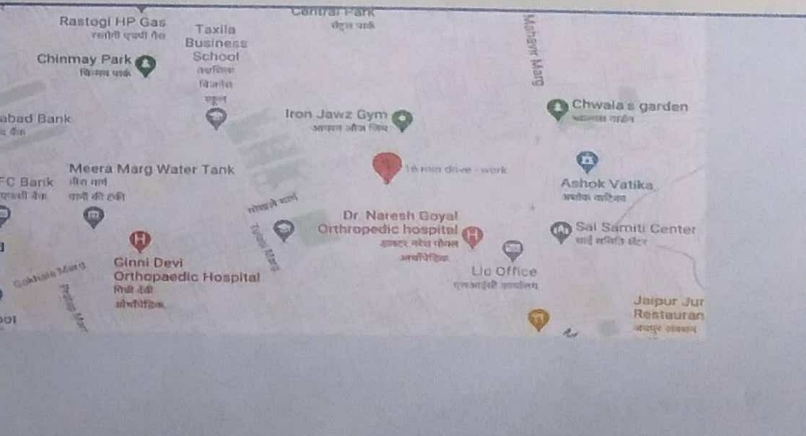


Monitoring Locations:

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.



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S. No.	Name of the Monitoring locations in Jaipur City	Locations on Google Map
1	Garden Behind Governor House, Civil Lines	
2	Santokba Durlabhji Memorial Hospital (near OPD)	
3	Nagar Nigam Office, Patel Marg, Mansarovar	
4	Science Park, Shastri Nagar	



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5	Gali No. 3, Raja Park	
6	Near Kotwali Thana, Chhoti Choupar	



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Monitoring Results:

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

Table 2

Monitoring Period in 2021	Monitoring Locations											
	Garden Behind Governor House, Civil Lines		SDMH (near OPD)		Nagar Nigam Office, Patel Marg, Mansarovar		Science Park, Shastri Nagar		Gali No. 3, Raja Park		Near Kotwali Thana, Chhoti Choupar	
	Silence Zone				Residential Zone				Commercial Zone			
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
January	59.4	48.2	61.4	66.3	58.6	50.1	67.2	56.6	70.3	66.8	70.5	65.1
February	67.2	47.4	62.7	61	55.9	49.9	62	51.1	67.6	63.2	71.3	68.9
March	65.3	47.1	60.7	65.2	56.6	50.2	60	52.8	65.2	60.5	71.5	68.9
April	Not Done						60.1	52.1	Not Done			
May	Not Done						Not Done		Not Done			
June	57.5	51.2	63	58	57.6	50.3	61.6	49.3	65.1	55.6	69.9	62.4
STANDARDS	50.0	40.0	50.0	40.0	55.0	45.0	55.0	45.0	65.0	55.0	65.0	55.0

Note:

- Noise Level in Leq dB (A) exceeded the prescribed standards are highlighted in yellow.
- Monitoring during April & May, 2021 could not be conducted due to State Lockdown in view of pandemic (Covid-19).



Interpretation:

Comparison of Noise level of all monitoring locations from January to June, 2021, in day time & night time are at Figure 1 & 2, respectively.

Fig. 1 Noise Level during Day time from January to June, 2021 of Jaipur City

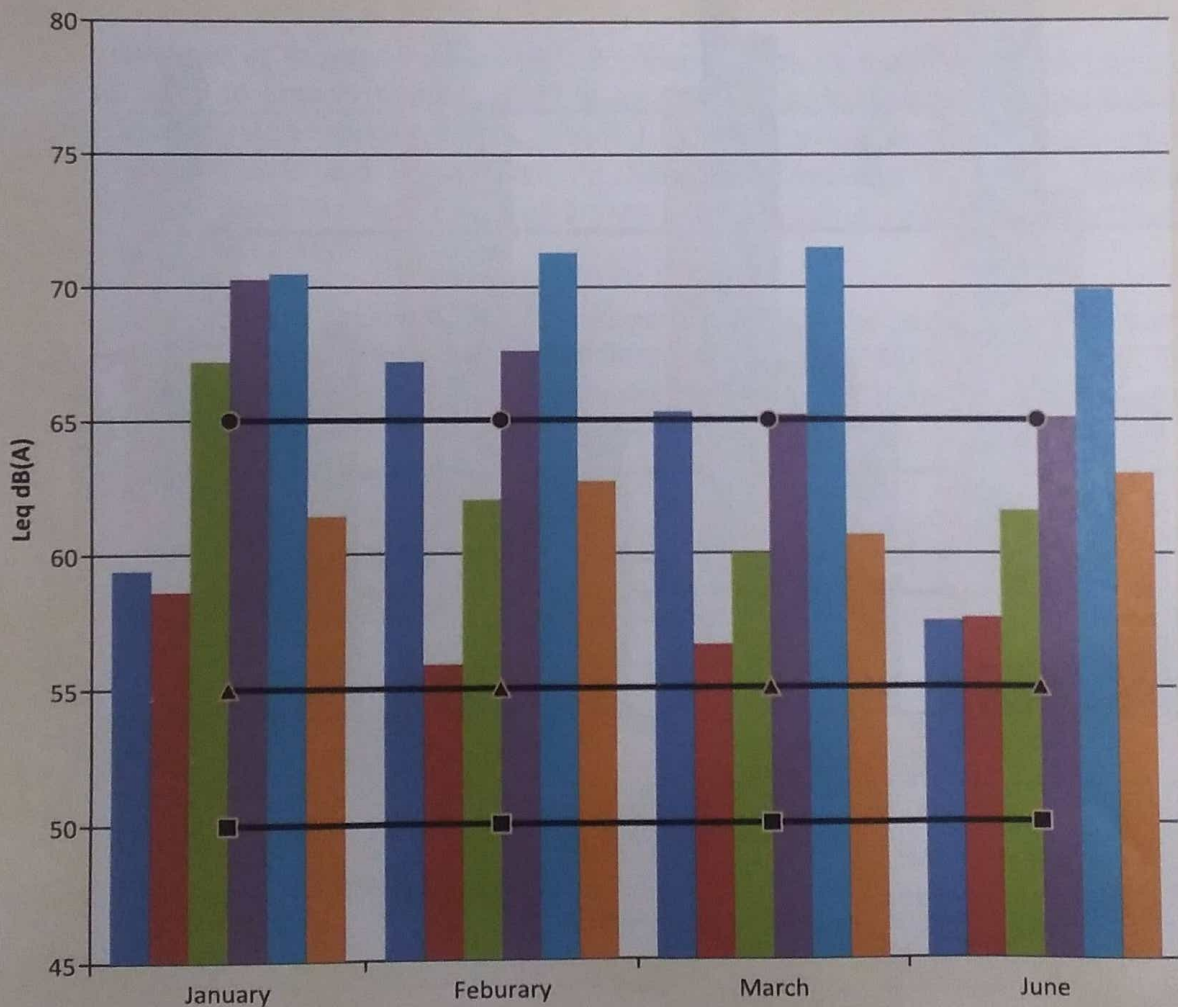
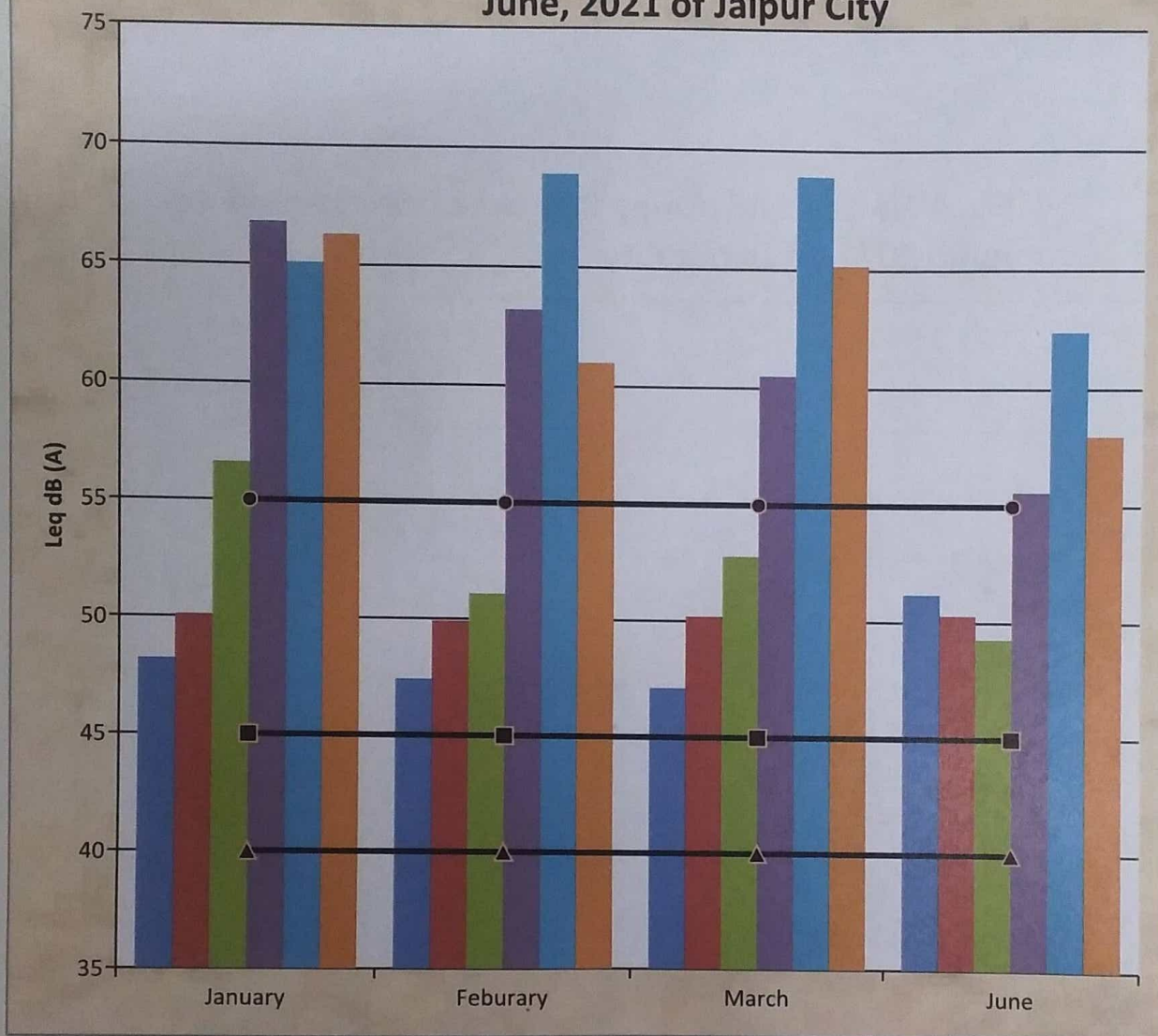




Fig. 2 Noise Level during Night time from January to June, 2021 of Jaipur City





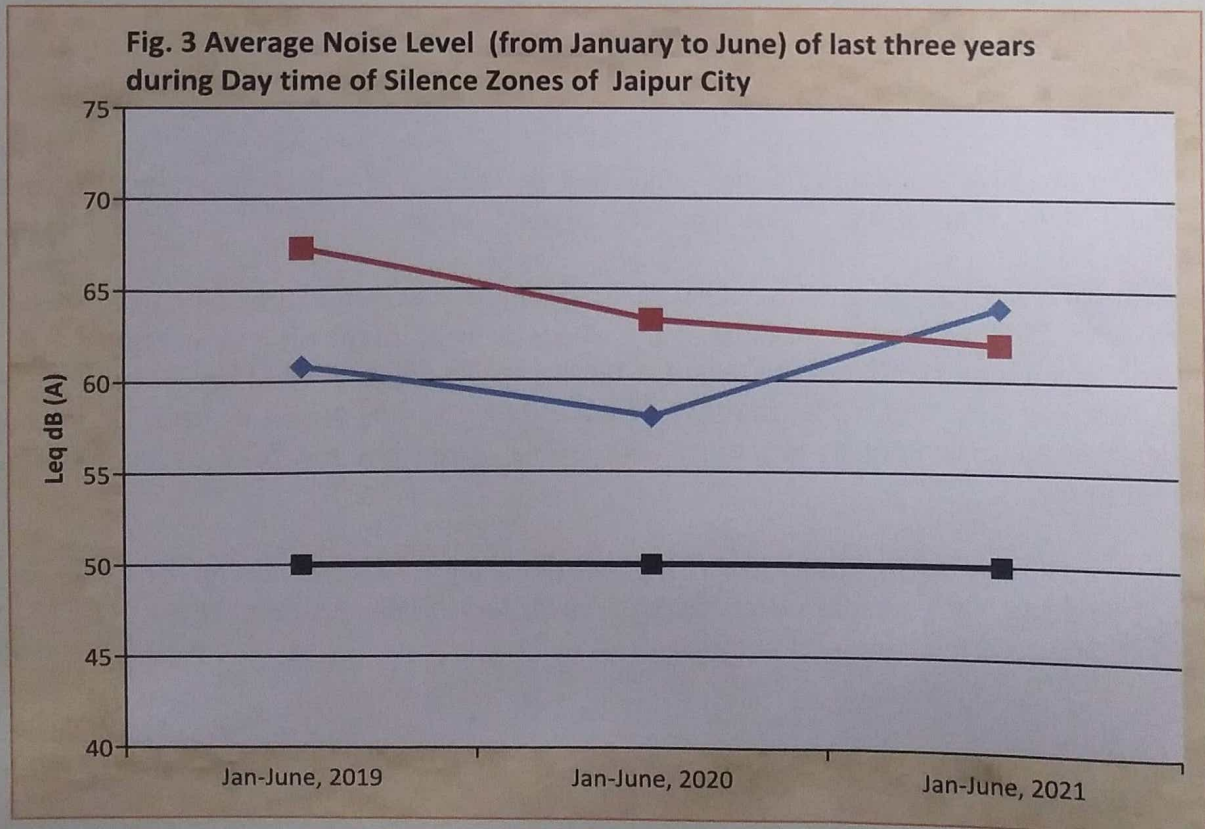
Zone wise comparison of average noise level from 2019 to 2021 (for period from January to June):-

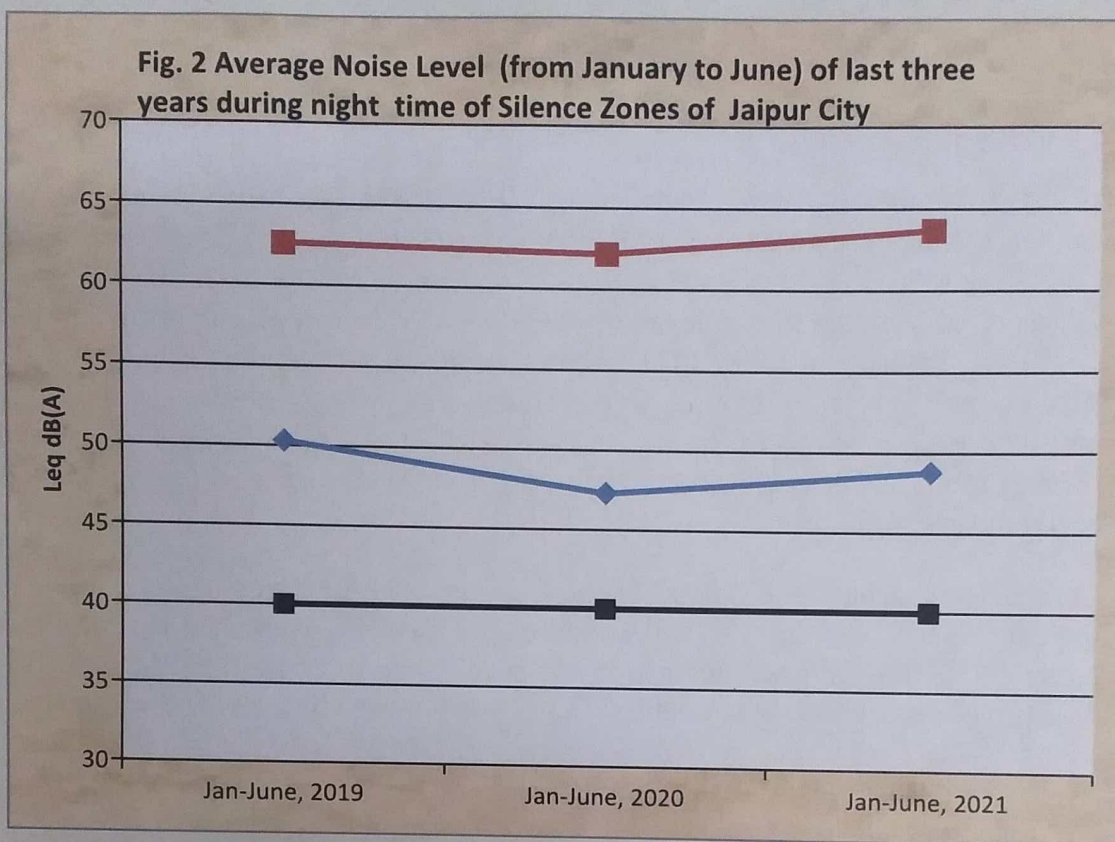
A. Silence Zones:-

There are two silence zones identified in Jaipur City- 1. Garden behind Governor House, Civil Lines 2. Santokba Durlabhji Memorial Hospital (SDMH).

Comparison of average Noise level of silence zones in Jaipur city from January to June, 2019 to January to June, 2021 in day time & night time is at Figure 3 & 4. At Garden behind Governor House, Civil Lines, a zig-zag trend has been observed during day time and night time. At Santokba Durlabhji Memorial Hospital, a decreasing trend has been observed during day time while a Zig -Zag trend has been observed during night time.

On comparison to Jan-June, 2019, highest decrease in the percentage of noise level in Leq dB (A) has been in observed at Santokba Durlabhji Memorial Hospital during day time (8 %) and highest increase in the percentage of noise level in Leq dB (A) has been in observed at Garden behind Governor House, Civil Lines during day time (5 %)





B. Residential Zones:-

There are two Residential zones identified in Jaipur City- 1. Nagar Nigam Office, Patel Marg, Mansarovar 2. Science Park, Shastri Nagar.

Comparison of average Noise level of Residential zones in Jaipur city from January to June, 2019 to January to June, 2021 in day time & night time is at Figure 5 & 6. At Nagar Nigam Office, Patel Marg, Mansarovar, a zig-zag trend has been observed during day time and night time. At Science Park, Shastri Nagar, a decreasing trend has been observed during day time while a Zig -Zag trend has been observed during night time.

On comparison to Jan-June, 2019, highest decrease in the percentage of noise level in Leq dB (A) has been in observed at Science Park, Shastri Nagar (18%).

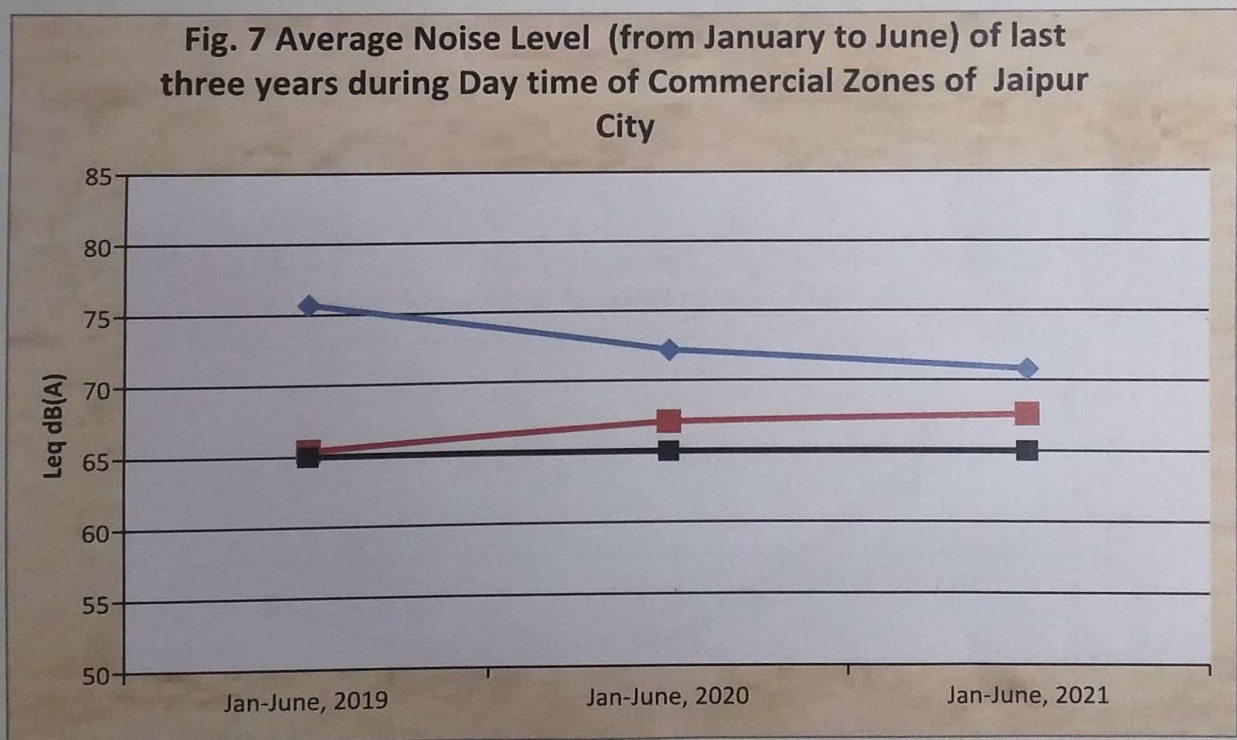


C. Commercial Zones:-

There are two Commercial zones identified in Jaipur City- 1. Gali No. 3, Raja Park
2. Near Kotwali Thana, Chhoti Choupar.

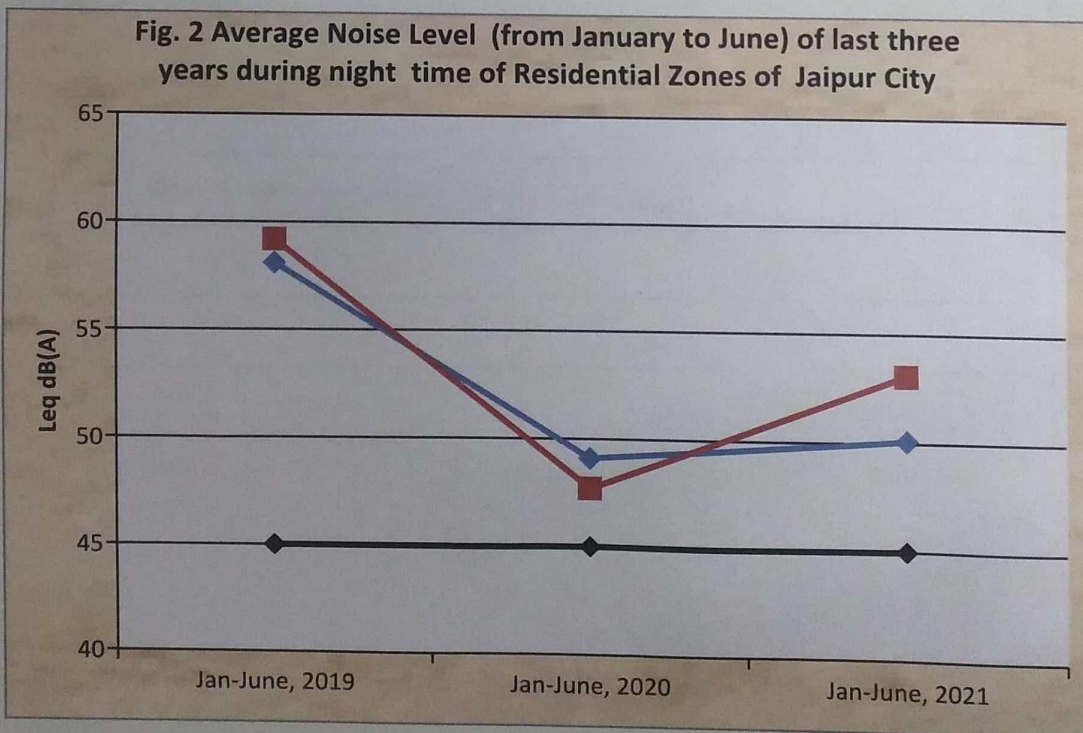
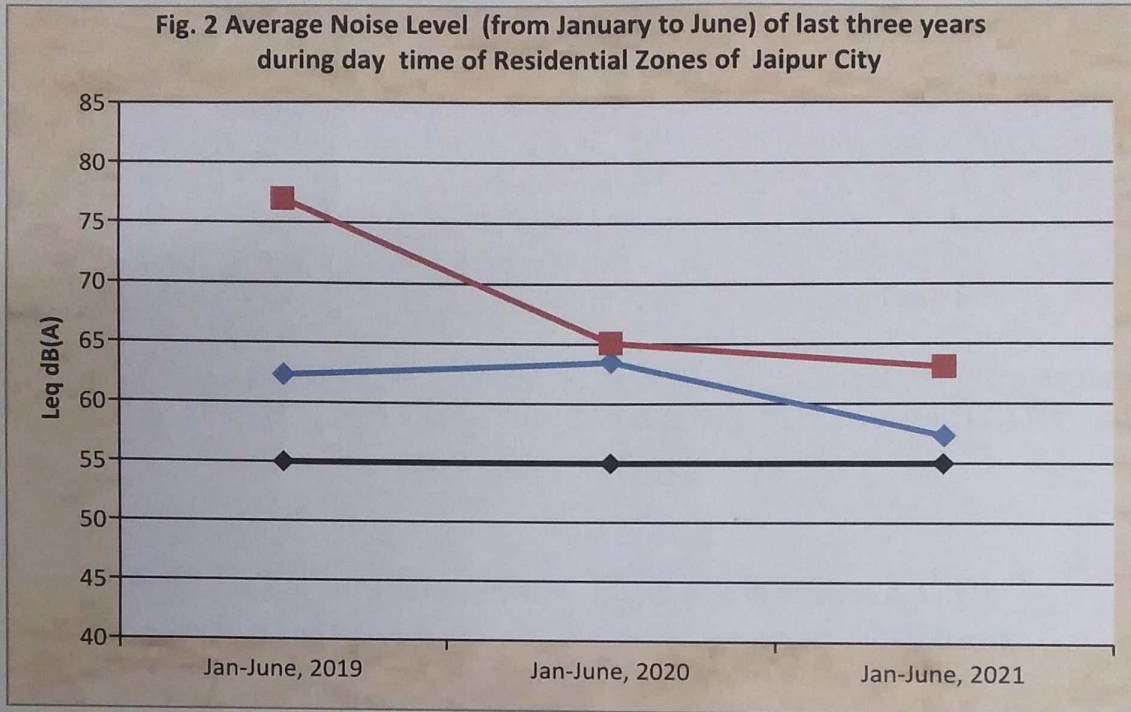
Comparison of average Noise level of Commercial zones in Jaipur city from January to June, 2019 to January to June, 2021 in day time & night time is at Figure 7 & 8. At Gali No. 3, Raja Park, an increasing trend has been observed during day time while a decreasing trend has been observed during night time. At Near Kotwali Thana, Chhoti Choupar, decreasing trend has been observed during day time while a Zig -Zag trend has been observed during night time.

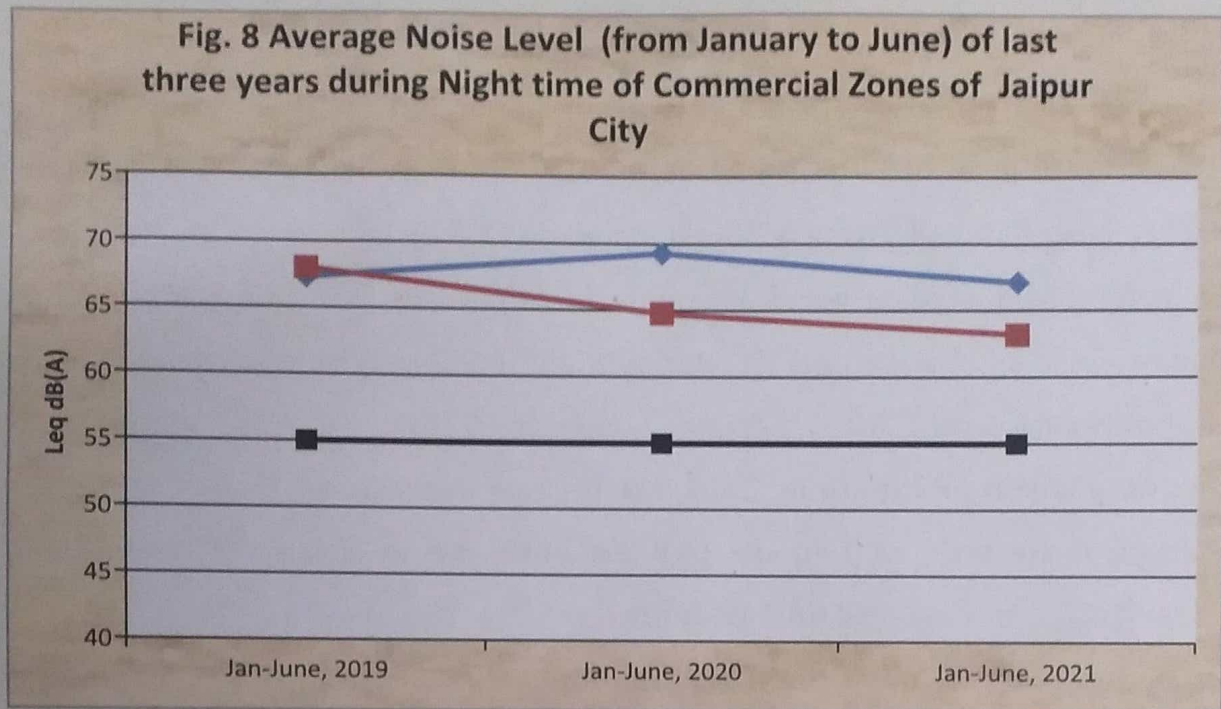
On comparison to Jan-June, 2019, highest decrease in the percentage of noise level in Leq dB (A) has been in observed at Gali No. 3, Raja Park (7%).





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Conclusion:

- On comparison of data at all locations in Jaipur city, it is observed that the highest noise level in Leq dB (A) during day time has been observed in March 2021 at Near Kotwali Thana, Chhoti Choupar (71.5 dB).
- On comparison of data at all locations in Jaipur city, it is observed that the highest noise level in Leq dB (A) during night time has been observed in March, 2021 at Near Kotwali Thana, Chhoti Choupar (68.9 dB).
- **On comparison to Jan-June, 2019, the highest decrease in the percentage of average noise level in Leq dB (A) has observed at Science Park, Shastri Nagar (18%) during day time in Jaipur.**
- **On comparison to Jan-June, 2019, the highest increase in the percentage of average noise level in Leq dB (A) has observed at Garden behind Governor House, Civil Lines (5%) during day time in Jaipur.**
- During the monitoring period, the noise level in Leq dB (A) has exceeded the prescribed standards under the provisions of Noise Pollution (Regulation & Control) Rules, 2000 during day and night time at all locations.
- On comparison of Average Noise level from Jan-June, 2019 to Jan-June, 2021, the average noise level decreased at Outside Outdoor of SDMH (day time-8%), Garden behind Governor House, Civil Lines (night time-3%), Nagar Nigam Office, Patel Marg, Mansarovar (day time-8% & night time-14%), Gali No. 3, Raja Park (night time-7%), Near Kotwali Thana, Chhoti Choupar (day time-6%), Science Park, Shastri Nagar (day time-18% & night time-10%); while the average noise level increased at Outside Outdoor of SDMH (night time-2%), Gali No. 3, Raja Park (day time-6%) and Garden behind Governor House, Civil Lines (day time-5%).



Chairperson

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