

STATUS OF NOISE LEVEL IN JAIPUR CITY (JANUARY TO JUNE, 2020)



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, 2020 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.

(Pawan Kumar Goyal)
Chairperson



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, 2020.

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.

Table 1

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



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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 2020	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, ChhotiChoupar	
	<i>Silence Zone</i>				<i>Residential Zone</i>				<i>Commercial Zone</i>			
	<i>Day Time</i>	<i>Night Time</i>	<i>Day Time</i>	<i>Night Time</i>	<i>Day Time</i>	<i>Night Time</i>	<i>Day Time</i>	<i>Night Time</i>	<i>Day Time</i>	<i>Night Time</i>	<i>Day Time</i>	<i>Night Time</i>
January	61.1	47.9	62.9	62.6	56.6	49.2	69.3	41.3	65.5	62.1	72.2	59.3
February	60.0	47.4	64.4	62.6	60.0	47.3	67.3	44.2	70.1	66.2	77.5	74.6
March	59.8	48.3	64.4	63.8	62.3	50.2	62.5	48.2	66.6	67.8	69.3	66.5
April	51.3	42.1	59.4	54.4	53.3	49.2	54.7	51.2	59.9	52.1	60.2	53.6
May	53.1	ND	61.5	60.7	52.3	ND	61.8	ND	66.0	ND	67.1	ND
June	52.4	48.2	64.8	63.9	69.9	ND	63.2	ND	68.6	ND	70.7	ND
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



Interpretation:

Comparison of Noise level of all monitoring locations from January to June, 2020, in day time & night time are at Figure 1 & 2, respectively.

Fig. 1 Noise Level during Day time from January to June, 2020 of Jaipur City

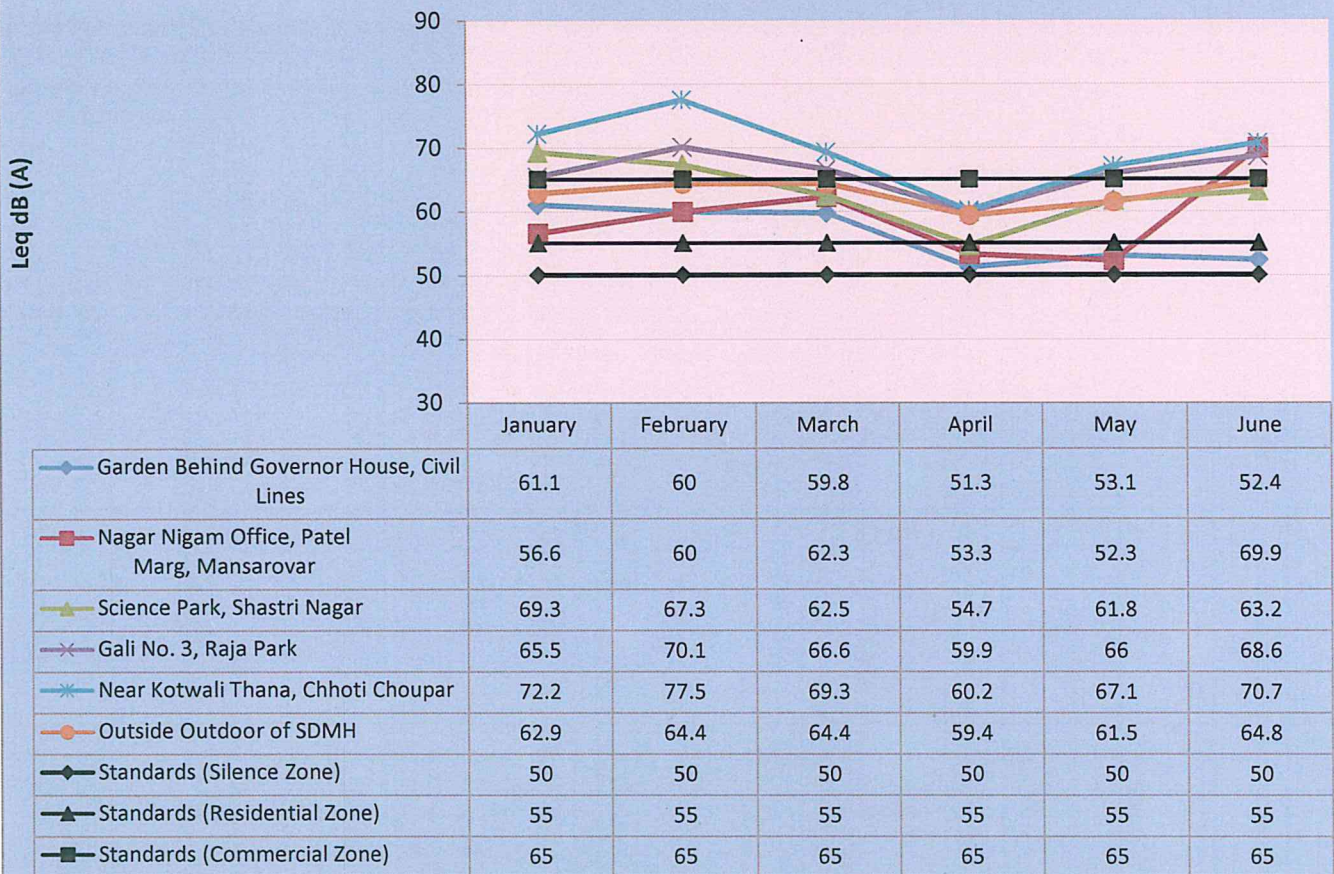
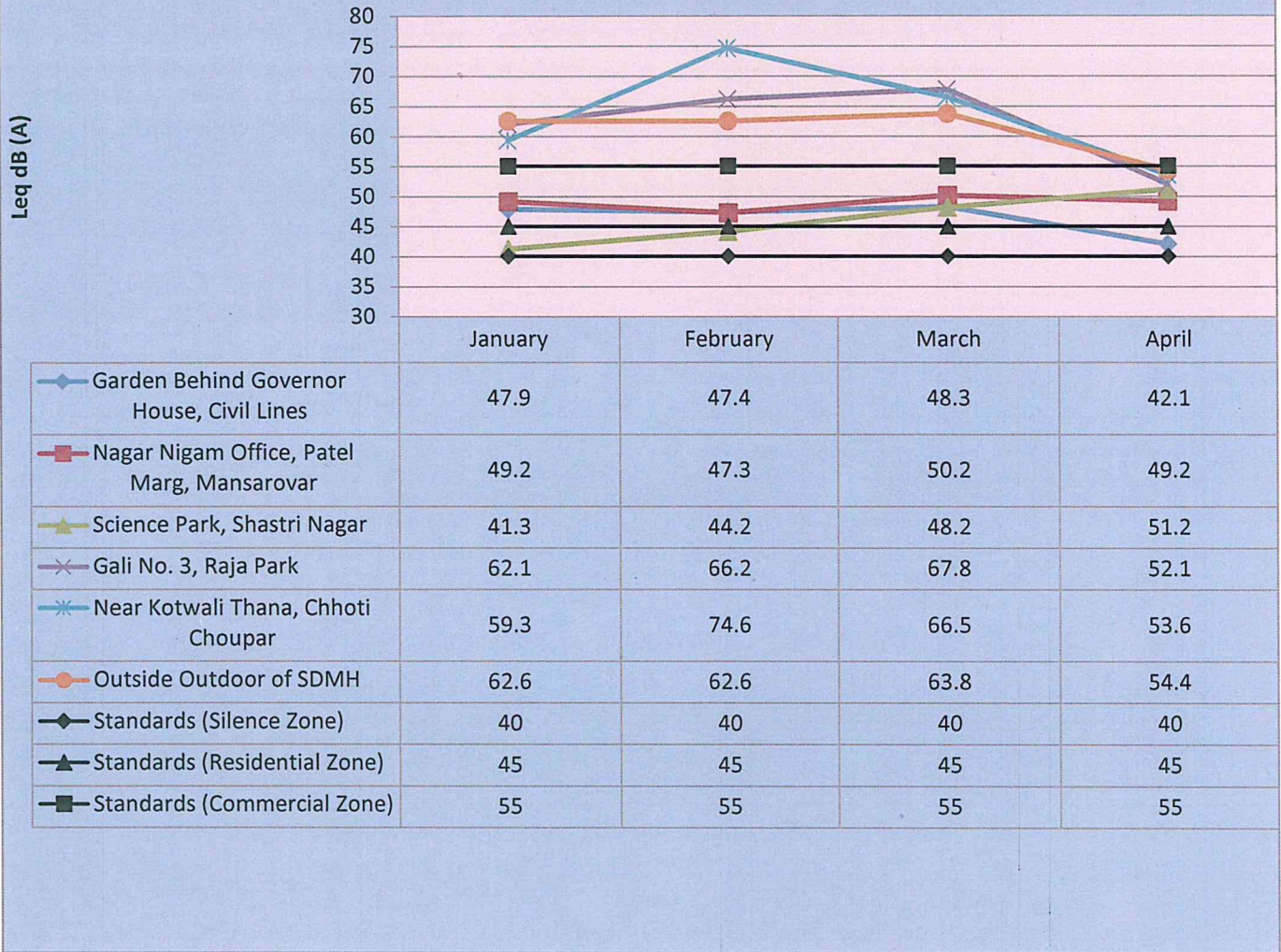




Fig. 2 Noise Level during Night time from January to April, 2020 of Jaipur City



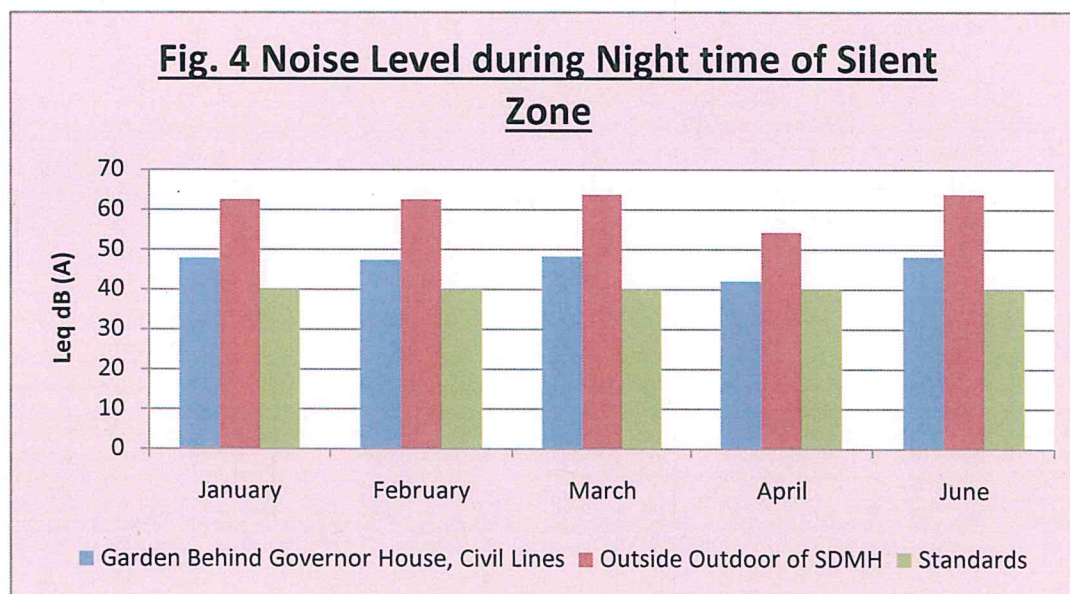
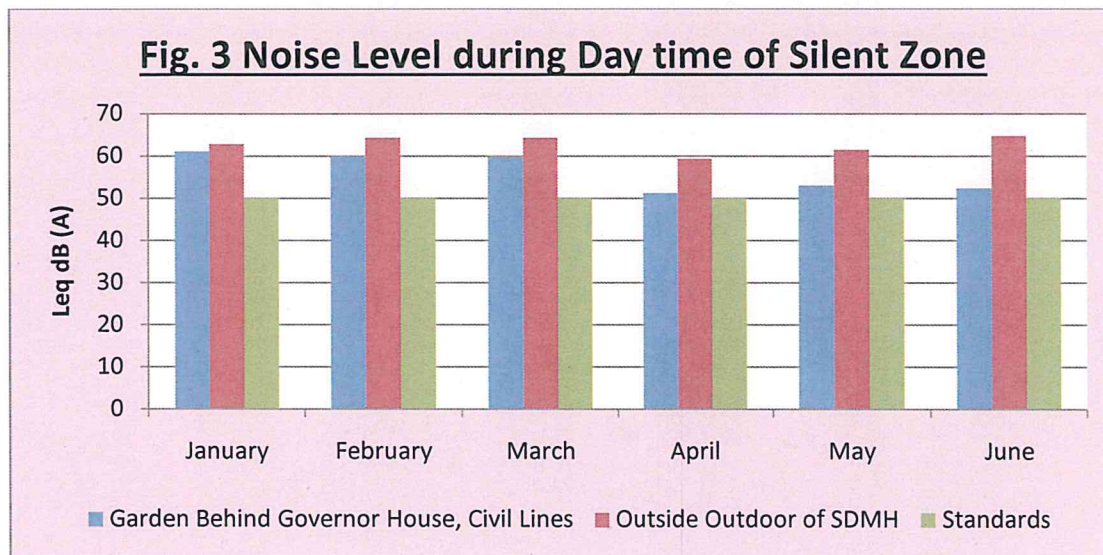
Note: - Monitoring during May & June, 2020 in night time could not be conducted due to pandemic (Covid-19). Therefore, comparison for these months could not be depicted.



Zone wise Comparison of noise level of all monitoring locations from January to June, 2020:-

A. Silent Zone :-

Comparison of Noise level in silent zone in Jaipur city from January to June, 2020, in day time & night time are at Figure 3 & 4, respectively.

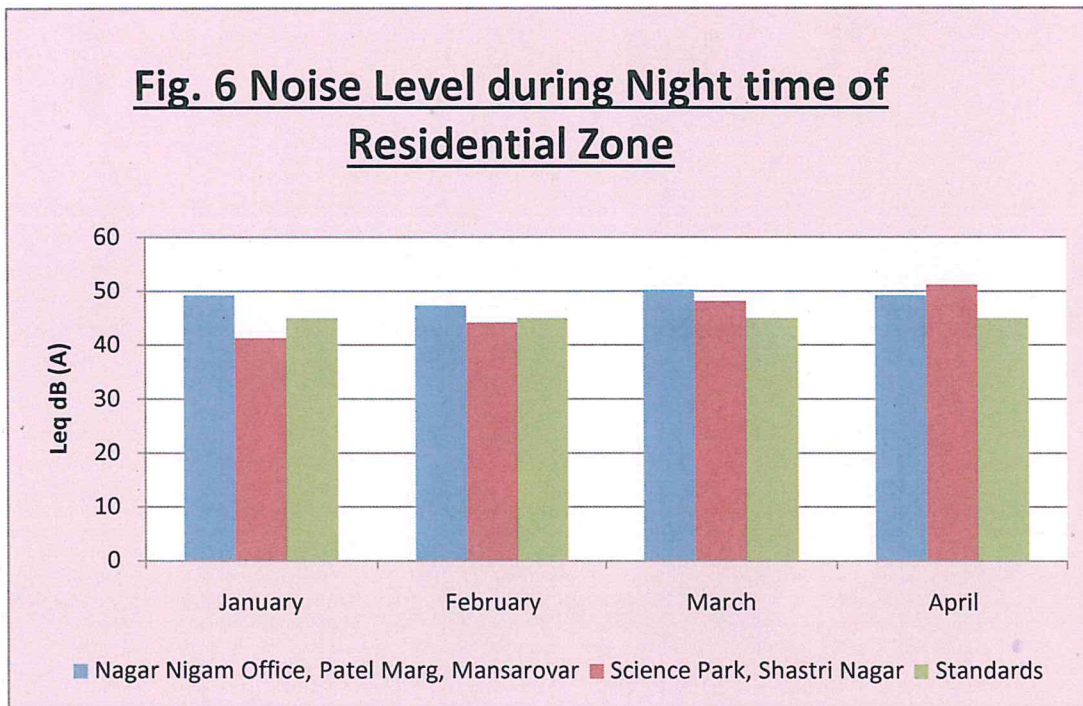
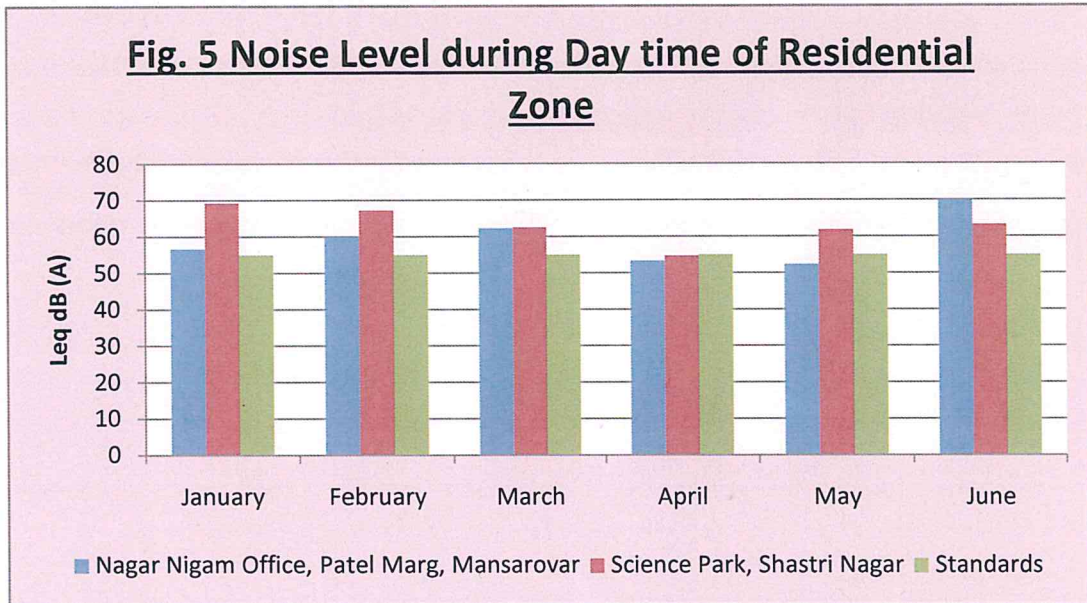


Note: - Monitoring during May, 2020 in night time could not be conducted due to pandemic (Covid-19).



B. Residential Zone :-

Comparison of Noise level in residential zone in Jaipur city from January to June, 2020, in day time & night time are at Figure 5&6, respectively.

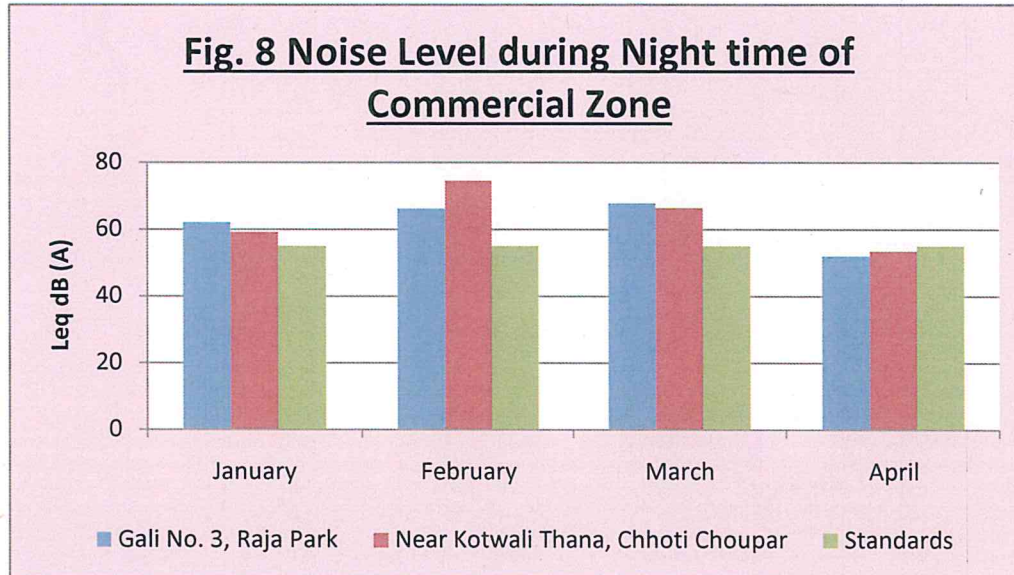
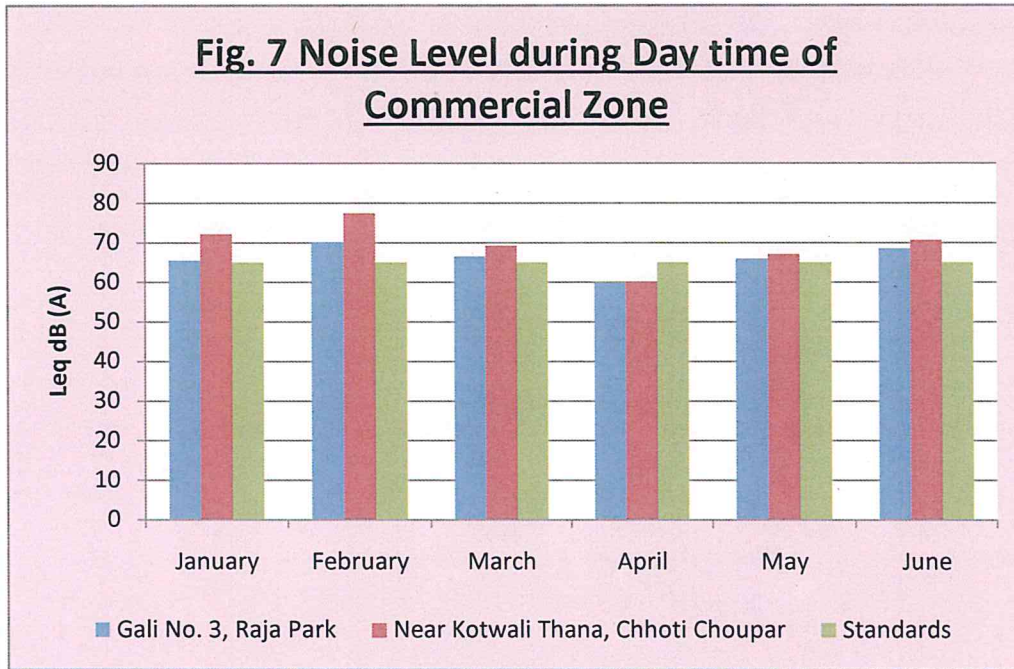


Note: - Monitoring during May & June, 2020 in night time could not be conducted due to pandemic (Covid-19).



C. Commercial Zone :-

Comparison of Noise level in commercial zone in Jaipur city from January to June, 2020, in day time & night time are at Figure 7&8, respectively.



Note: - Monitoring during May & June, 2020 in night time could not be conducted due to pandemic (Covid-19).



Comparison of Noise level 2019 & 2020 (from January to June month):

Comparisons of concentration of Noise Level in Leq dB(A) of all monitoring locations in Jaipur City for the period of January 2019-June 2019 and January 2020-June 2020 during day time and night time , are at Fig.9 and Fig.10 respectively .

In Comparison to 2019, concentration of noise level in Leq dB (A) of all monitoring locations in Jaipur city decreased except Mansarovar (Day time), Raja Park (Day time) & Chotichoupar (Night time). Therefore, a decreasing trend is observed in concentration of noise level from 2019 to 2020 for month January to June in Jaipur city.

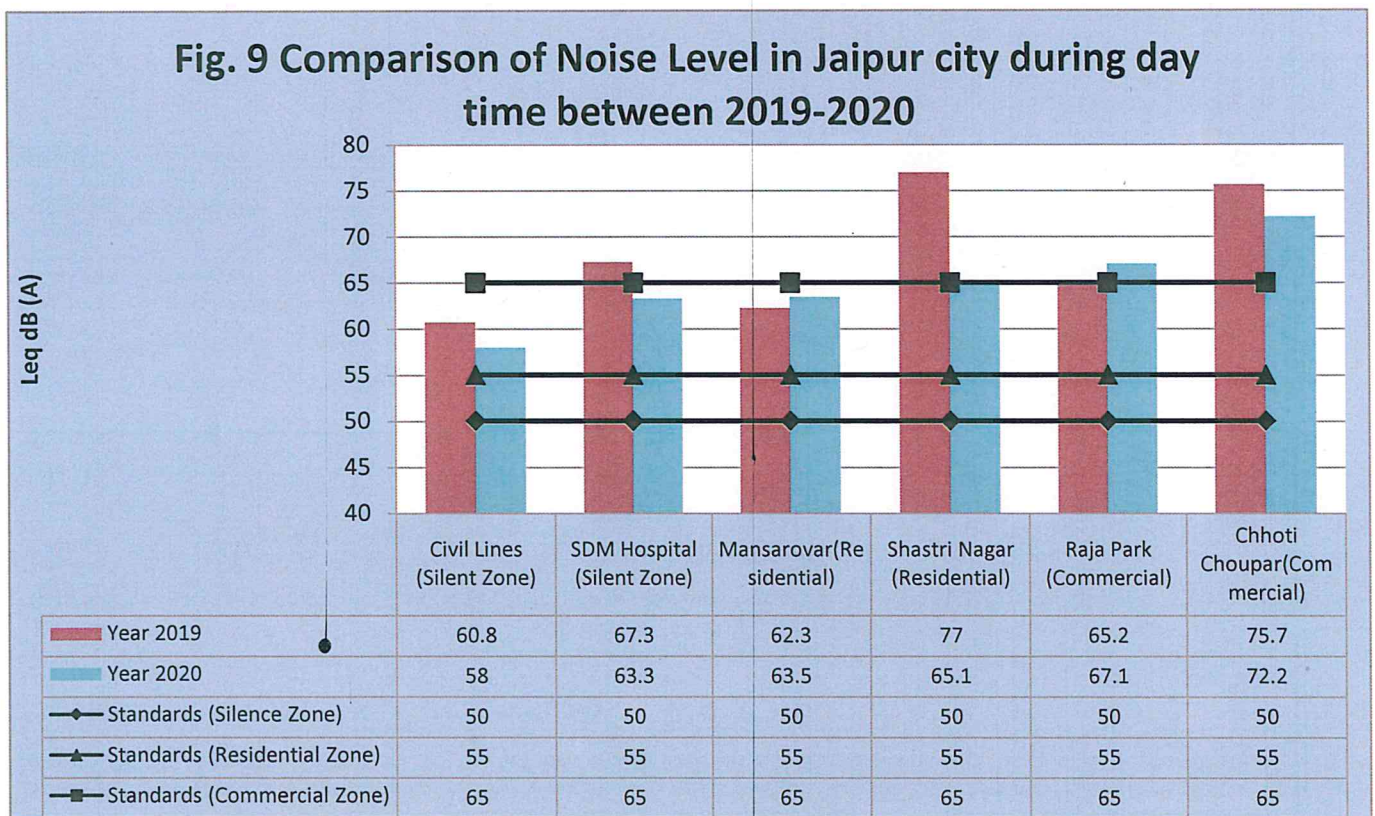
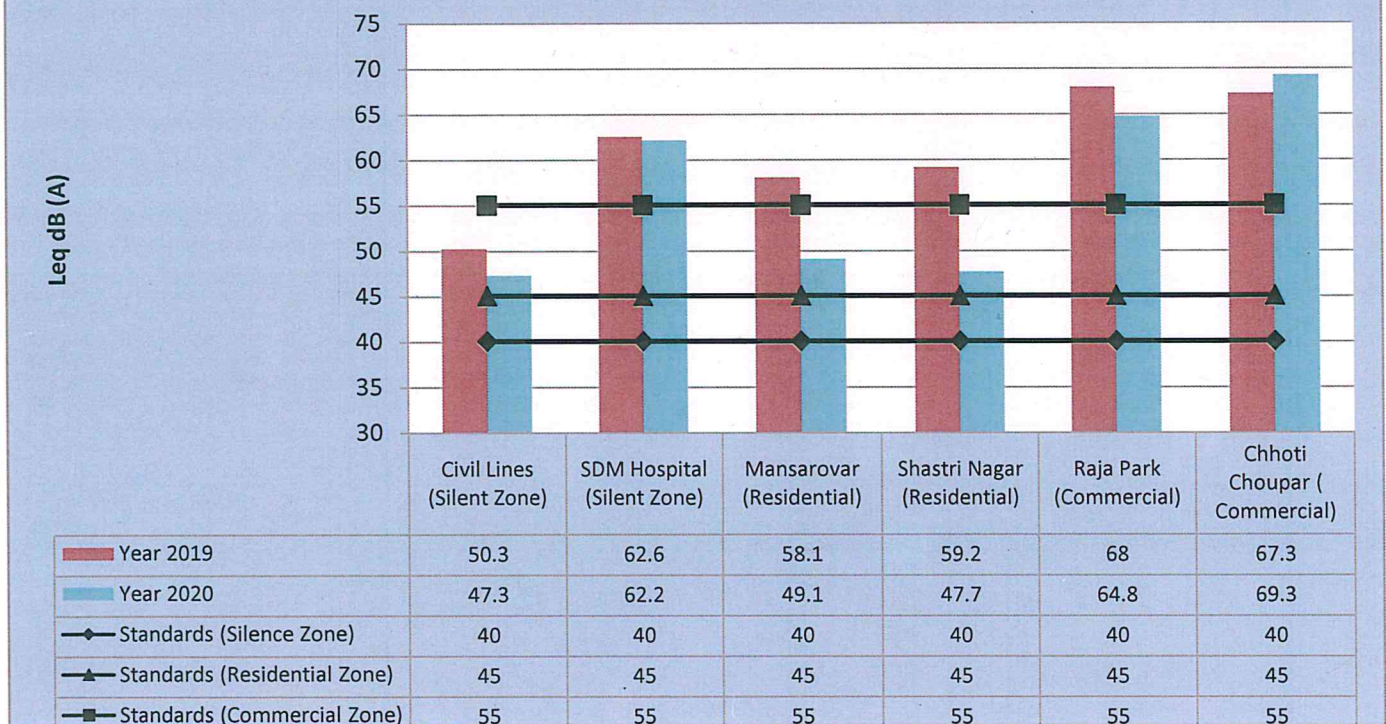




Fig. 10 Comparison of Noise Level in Jaipur city during night time between 2019-2020



Conclusion:

On comparison of data at all locations in Jaipur city, it is observed that the concentration of noise level in Leq dB(A) has decreased from day to night except Gali No. 3, Raja Park in March, 2020.

The concentration of noise level in LeqdB(A) has exceeded the prescribed standards both during day and night time throughout the entire monitoring period i.e. from January to June, 2020 at SDMH near OPD.

It is also observed that a decreasing trend in concentration of noise level in Leq dB(A) during the period from March to April, 2020 has been observed at all locations (both day and night time), except at Science Park, Shastri Nagar during night time.



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