

# Status of Noise Level In Jaipur City (July to December, 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 July to December, 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.

(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 July to December, 2020. 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.

(Dr. Gobind Sagar Bharadwaj)  
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 July to December, 2020.

The Noise level monitoring was conducted day time (1100 hrs to 2200 hrs) and night time (2200 hrsonwards) 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.






## Status of Noise Level in Jaipur City (July to December, 2020)

S. No.	Name of the Monitoring locations in Jaipur City	Locations on Google Map
1	Garden Behind Governor House, Civil Lines	
2	SDMH (near OPD)	
3	Nagar Nigam Office, Patel Marg, Mansarovar	



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<p>4</p>	<p>Science Park, Shastri Nagar</p>	
<p>5</p>	<p>Gali No. 3, Raja Park</p>	
<p>6</p>	<p>Near Kotwali Thana, ChhotiChoupar</p>	



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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>
<b>July</b>	60.9	48.4	63.3	68.2	52.2	49.3	63.7	51.4	70.2	68.3	71.3	68.5
<b>August</b>	61.3	48.1	65.1	60.2	55.3	50.3	65.7	49.8	69.5	69.9	70.5	66.6
<b>September</b>	65.5	47.2	61.1	61.1	52.3	48.6	63.9	49.3	62.8	60.3	69.8	65.6
<b>October</b>	60	46.7	60.9	59.1	50.3	48.6	61.7	48.5	71.2	68.2	65.3	60.1
<b>November</b>	65.9	62	60.9	59.1	55.2	52.3	70.6	47.3	69.6	65.3	68.9	63.3
<b>December</b>	61.3	48.8	64.6	61.2	63.4	53.2	65.9	44.3	67.3	60.3	67.3	60.3
<b>STANDARDS</b>	50.0	40.0	50.0	40.0	55.0	45.0	55.0	45.0	65.0	55.0	65.0	55.0

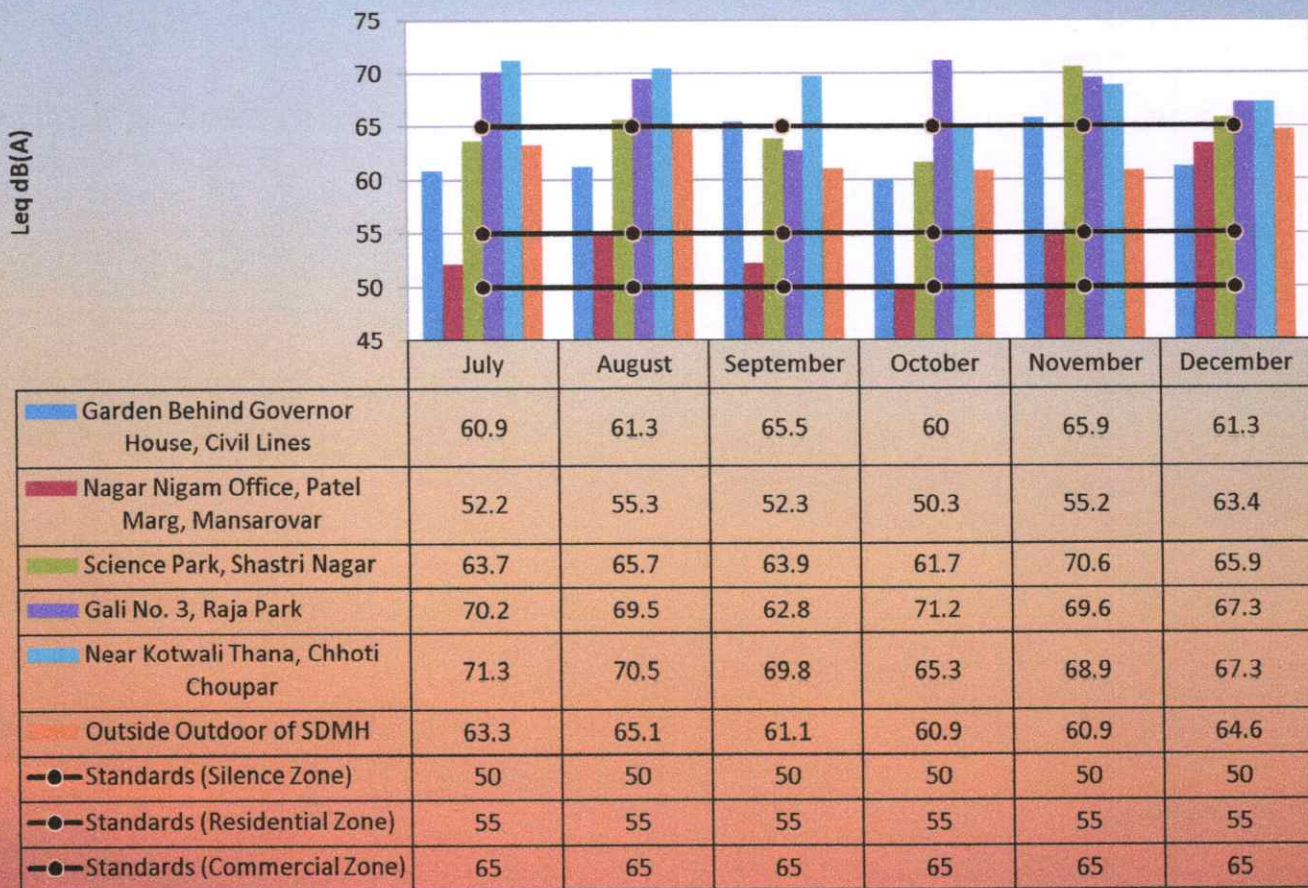
**Note:** Noise Level in Leq dB (A) exceeded the prescribed standards are highlighted in yellow.



**Interpretation:**

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

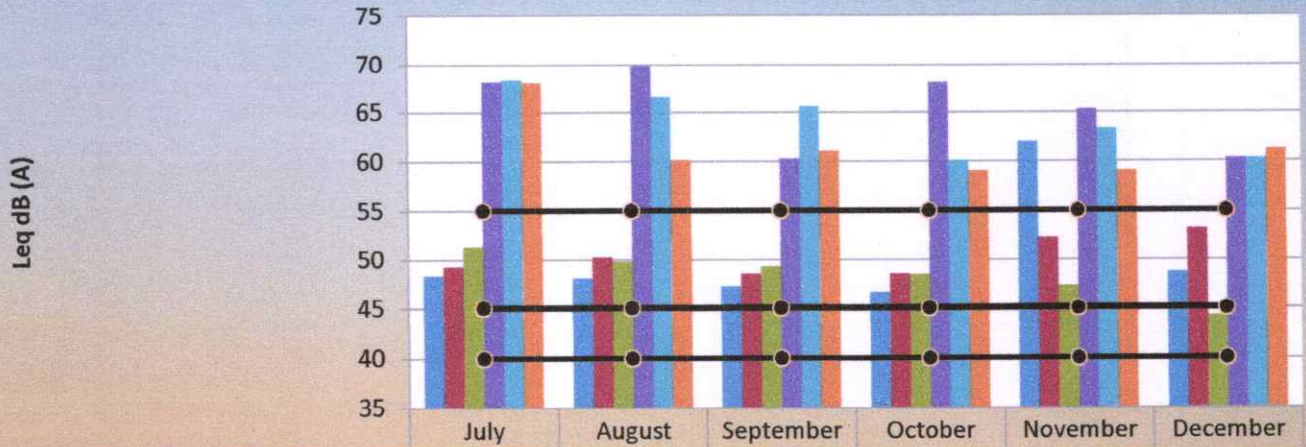
**Fig. 1 Noise Level during Day time from July to December, 2020 of Jaipur City**







**Fig. 2 Noise Level during Night time from July to December, 2020 of Jaipur City**



	July	August	September	October	November	December
Garden Behind Governor House, Civil Lines	48.4	48.1	47.2	46.7	62	48.8
Nagar Nigam Office, Patel Marg, Mansarovar	49.3	50.3	48.6	48.6	52.3	53.2
Science Park, Shastri Nagar	51.4	49.8	49.3	48.5	47.3	44.3
Gali No. 3, Raja Park	68.3	69.9	60.3	68.2	65.3	60.3
Near Kotwali Thana, Chhoti Choupar	68.5	66.6	65.6	60.1	63.3	60.3
Outside Outdoor of SDMH	68.2	60.2	61.1	59.1	59.1	61.2
Standards (Silence Zone)	40	40	40	40	40	40
Standards (Residential Zone)	45	45	45	45	45	45
Standards (Commercial Zone)	55	55	55	55	55	55



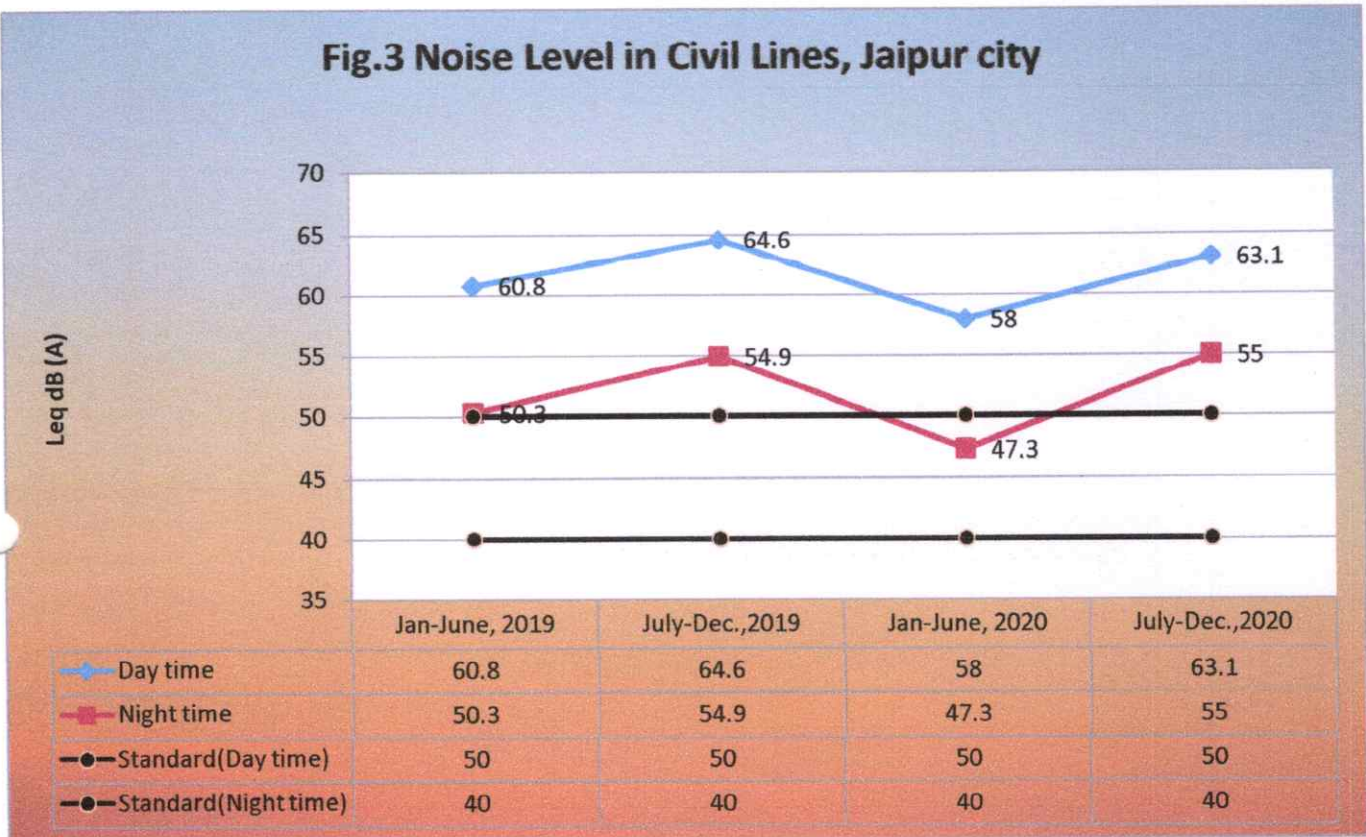
## Locations wise comparison of average noise level from 2019 to 2020 (half yearly):-

### A. Garden Behind Governor House, Civil Lines:-

Comparison of average Noise level Garden behind Governor House, Civil Lines (Silent zone) from January to June, 2019, to July to December, 2020 in day time & night time is at Figure 3. A Zig-Zag trend has been observed during day time & night time.

On comparison to Jan-June, 2019, the percentage of average noise level in Leq dB (A) has increased during day time (4%) and during night time (9%) in July to December, 2020.

**Fig.3 Noise Level in Civil Lines, Jaipur city**

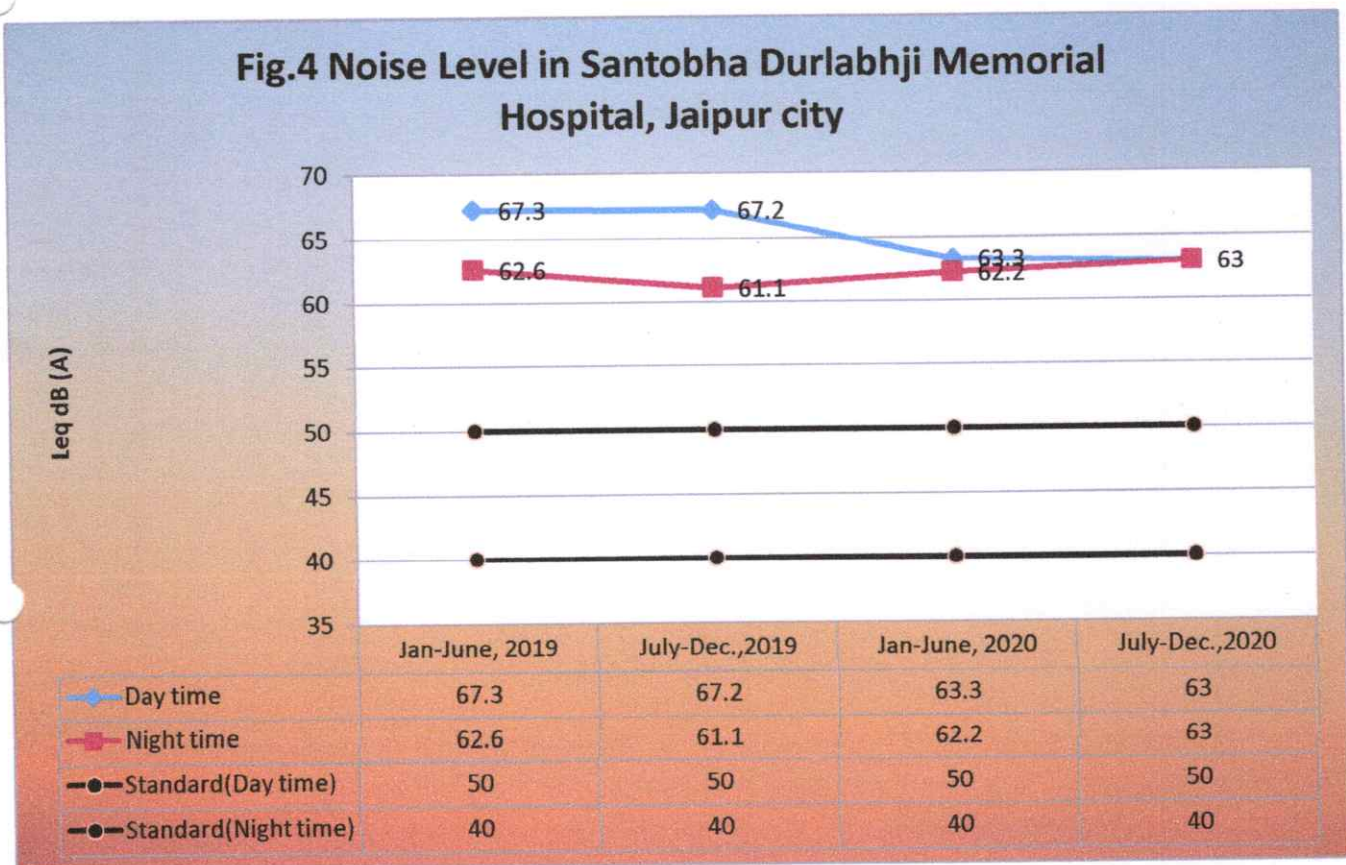




**B. SantobhaDurlabhji Memorial Hospital SDMH (near OPD):-**

Comparison of average Noise level SantobhaDurlabhji Memorial Hospital (SDMH) (Silent zone) from January to June, 2019, to July to December, 2020 in day time & night time is at Figure 4. A decreasing trend has been observed during day time; while an increasing trend has been observed during night time except July- Dec, 2019.

On comparison to Jan-June, 2019, the percentage of average noise level in Leq dB (A) has decreased during day time (6%); while increased during night time (1%) in July to December, 2020.



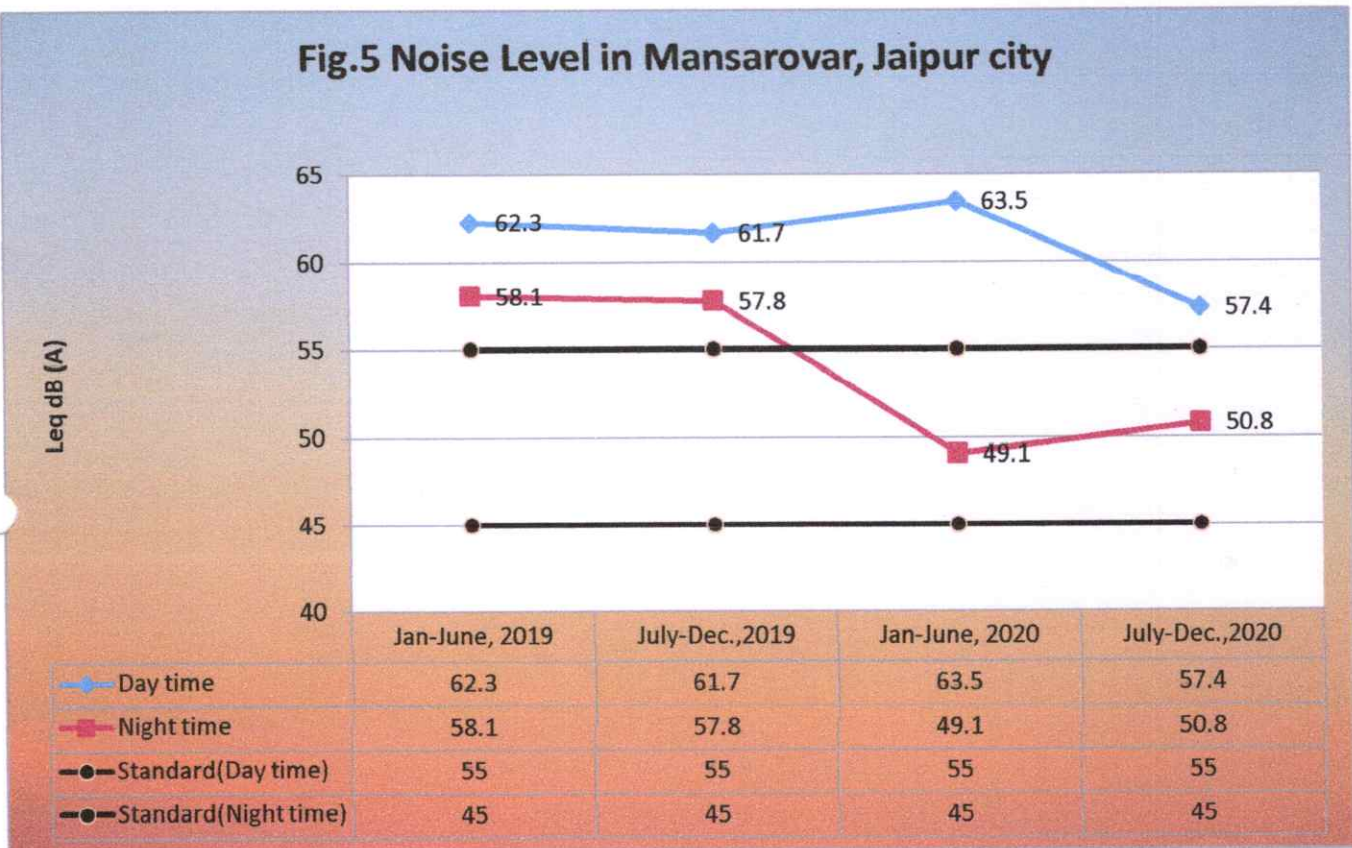


**C. Nagar Nigam Office, Patel Marg, Mansarovar:-**

Comparison of average Noise level Nagar Nigam Office, Patel Marg, Mansarovar (Residential zone) from January to June, 2019, to July to December, 2020 in day time & night time is at Figure 5. A decreasing trend has been observed during day time & night time, both except Jan-June, 2020 (day time) and July- Dec, 2020 (Night time).

**On comparison to Jan-June, 2019, the percentage of average noise level in Leq dB (A) has decreased during day time (8%) and night time (13%) in July to December, 2020.**

**Fig.5 Noise Level in Mansarovar, Jaipur city**





### D. Science Park, Shastri Nagar:-

Comparison of average Noise level Science Park, Shastri Nagar (Residential zone) from January to June, 2019, to July to December, 2020 in day time & night time is at Figure 6. A Zig-Zag trend has been observed during day time & night time.

On comparison to Jan-June, 2019, the percentage of average noise level in Leq dB (A) has decreased during day time (14%) and night time (17%) in July to December, 2020.

**Fig.6 Noise Level in Shastri Nagar, Jaipur city**



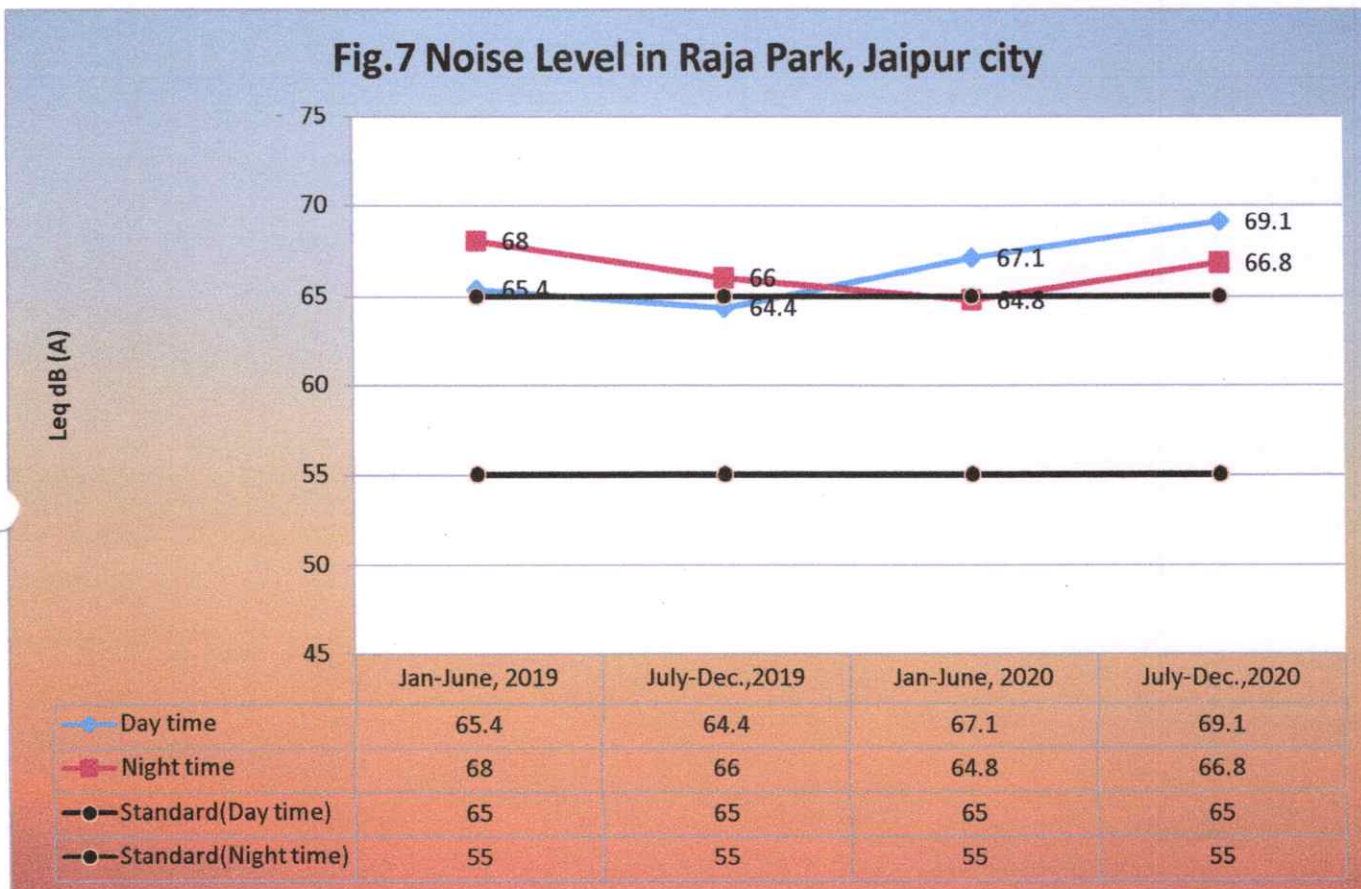


## E. Gali No. 3, Raja Park:-

Comparison of average Noise level Gali No. 3, Raja Park (Commercial zone) from January to June, 2019, to July to December, 2020 in day time & night time is at Figure 7. An increasing trend has been observed during day time except July- Dec, 2019; while a decreasing trend has been observed during night time except July- Dec, 2020.

**On comparison to Jan-June, 2019, the percentage of average noise level in Leq dB (A) has increased during day time (6%); while decreased during night time (2%) in July to December, 2020.**

**Fig.7 Noise Level in Raja Park, Jaipur city**



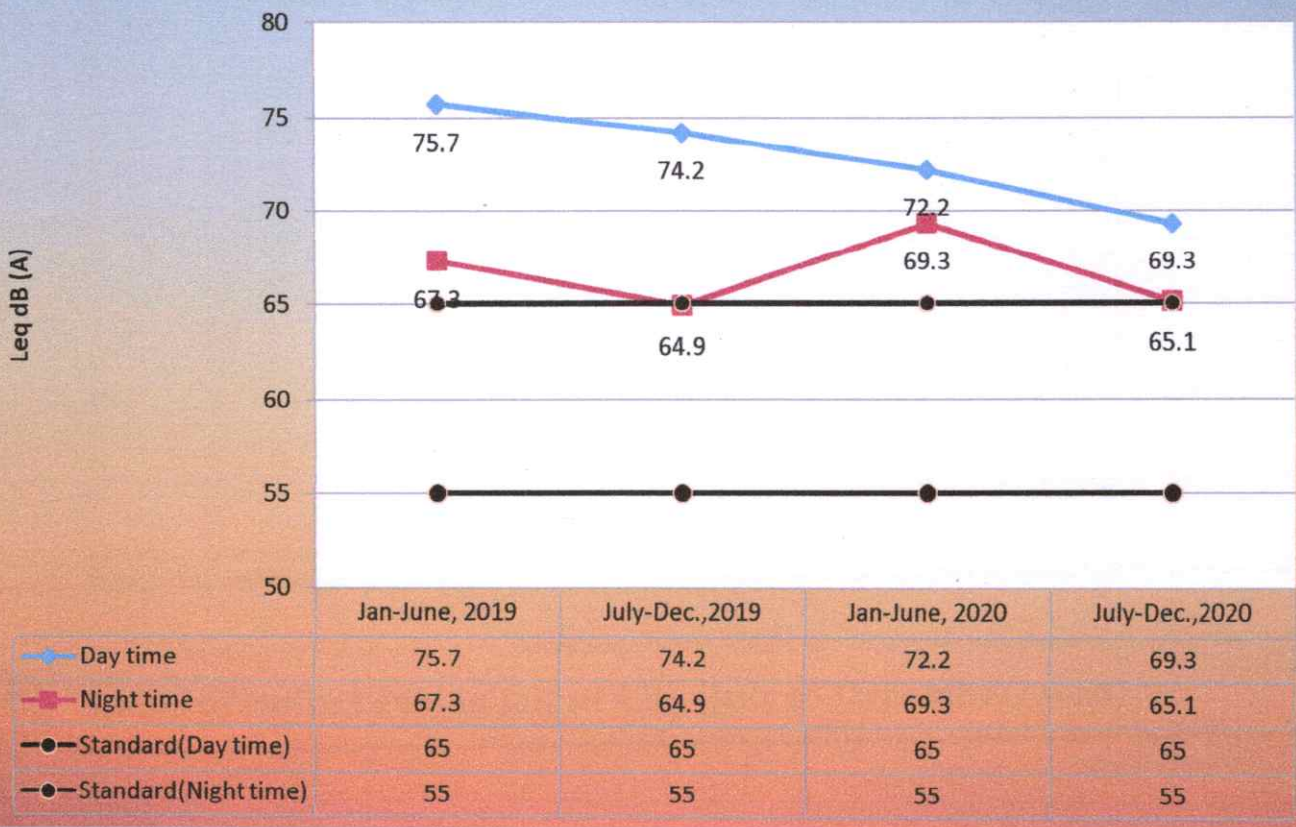


## F. Near Kotwali Thana, ChhotiChoupar:-

Comparison of average Noise level Near Kotwali Thana, ChhotiChoupar (Commercial zone) from January to June, 2019, to July to December, 2020 in day time & night time is at Figure 8. 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, the percentage of average noise level in Leq dB (A) has decreased during day time (8%) and night time (3%) in July to December, 2020.**

**Fig.8 Noise Level in Choti Choupar, Jaipur city**





## **Chairperson**

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