

Status of Noise Level in Sirohi City (From July to December, 2021)

Background

In order to assess the impact of predominating Noise Level in Sirohi City, Rajasthan State Pollution Control Board conducts study on Noise Level Monitoring in Sirohi City at 4 different stations throughout the year. A fifth station was included at the CAAQMS site in Sirohi city from December 2021 onwards. This report is compilation of results and observations of the study conducted from July to December, 2021.

The Noise level monitoring was conducted in day time (6.00 AM to 10.00 PM) for July to November 2021 and at night time (10 .00 PM to 6.00 AM) from December 2021 onwards at each location with sampling frequency of one second and sampling duration of 30 minutes.

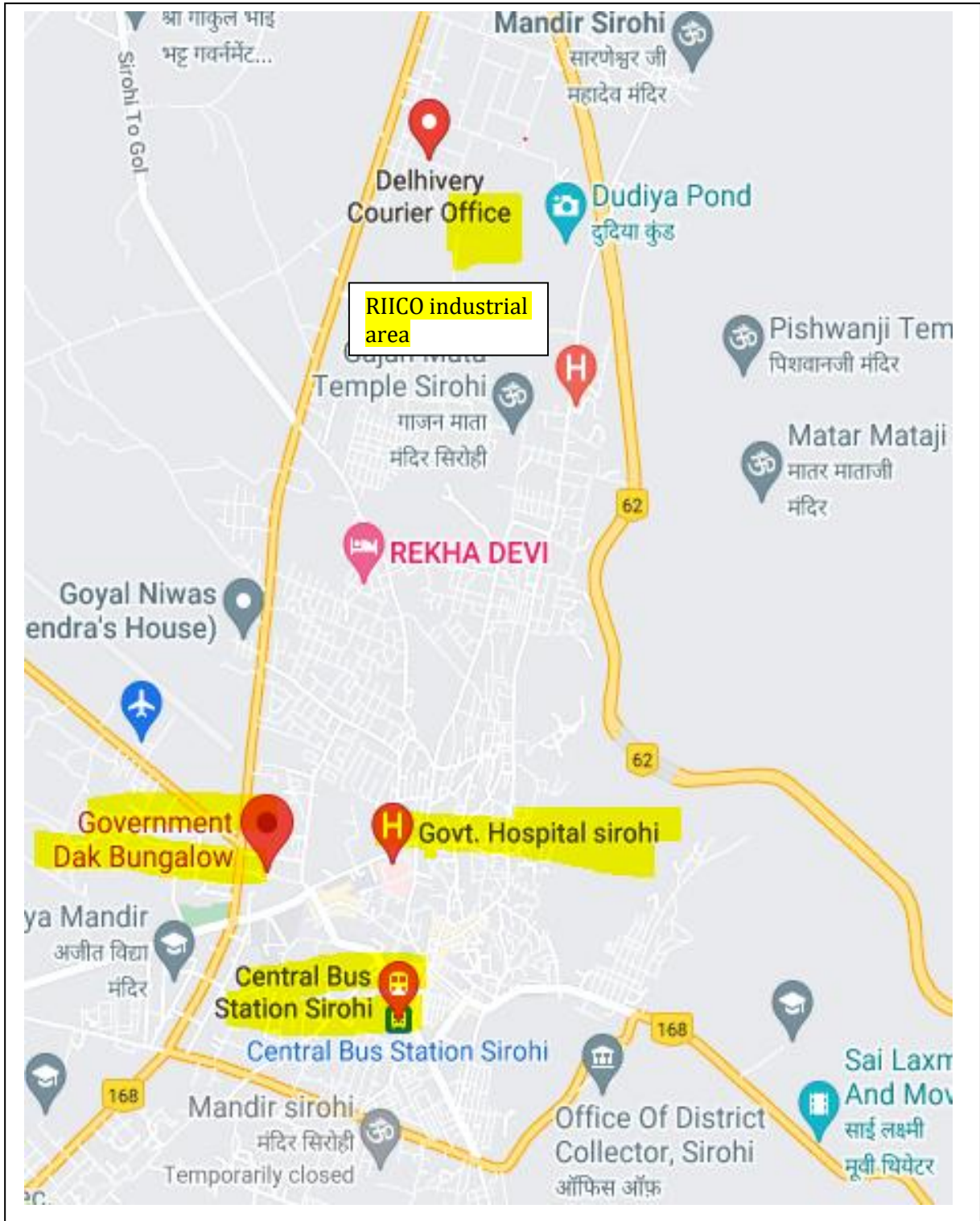
Monitoring Locations

In order to maintain uniformity in monitoring, Residential, Commercial, Industrial and Silence Zone 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 4 monitoring locations in Sirohi City.

Table :1 Monitoring Locations of Sirohi City

S. No.	Details of Monitoring Locations in Sirohi City	Category of Area/Zone	Latitude	Longitude
1.	Bus Stand Sirohi	Commercial	24.8806	72.8598
2.	District Hospital Sirohi	Silence	24.8868	72.8588
3.	Dak Bungalow	Residential	24.8857	72.8552
4.	RIICO Industrial area	Industrial	24.9131	72.8623

Map showing Noise Monitoring Locations in Sirohi city



Monitoring Results

The comparative statement of noise level monitoring conducted in Sirohi City is depicted below:-

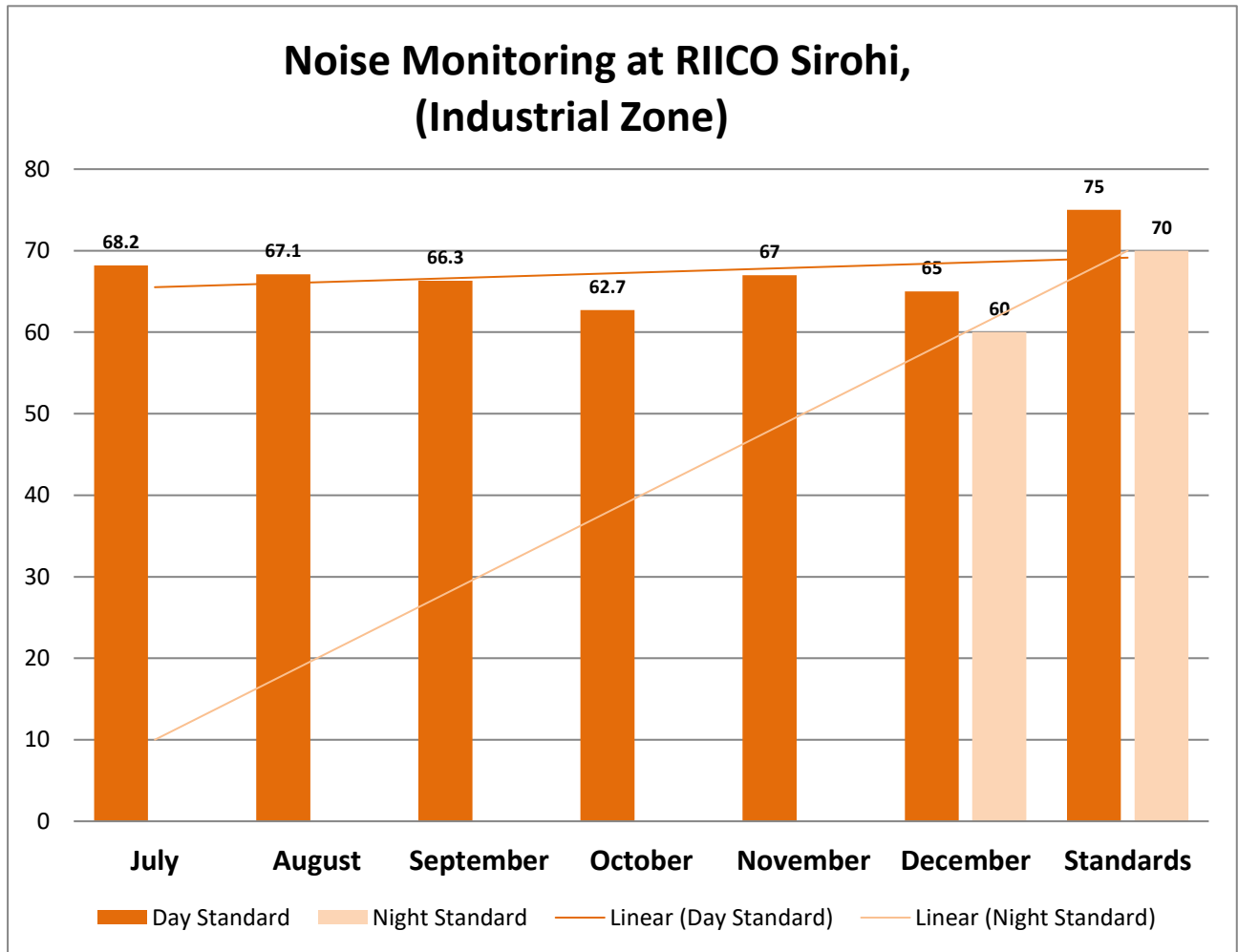
Table :2 Comparative Statement of Noise Level Monitoring

Monitoring Period 2021	Monitoring Locations							
	RIICO Sirohi (Industrial)		Dak Bungalow (Residential)		Bus Stand Sirohi (Commercial)		Govt Hospital (Silence)	
	Day	Night	Day	Night	Day	Night	Day	Night
July	68.2	ND	55.2	ND	70.5	ND	57.2	ND
August	67.1	ND	56.1	ND	58.7	ND	56.4	ND
September	66.3	ND	58.3	ND	71.2	ND	60.1	ND
October	62.7	ND	54.9	ND	67.1	ND	61.8	ND
November	67	ND	59.5	ND	75.1	ND	63.3	ND
December	65	60	57.5	55.6	73.8	70.6	60.2	56.4
Standards	75.0	70.0	55.0	45.0	65.0	55.0	50.0	40.0

All values are in Leq. dB(A)

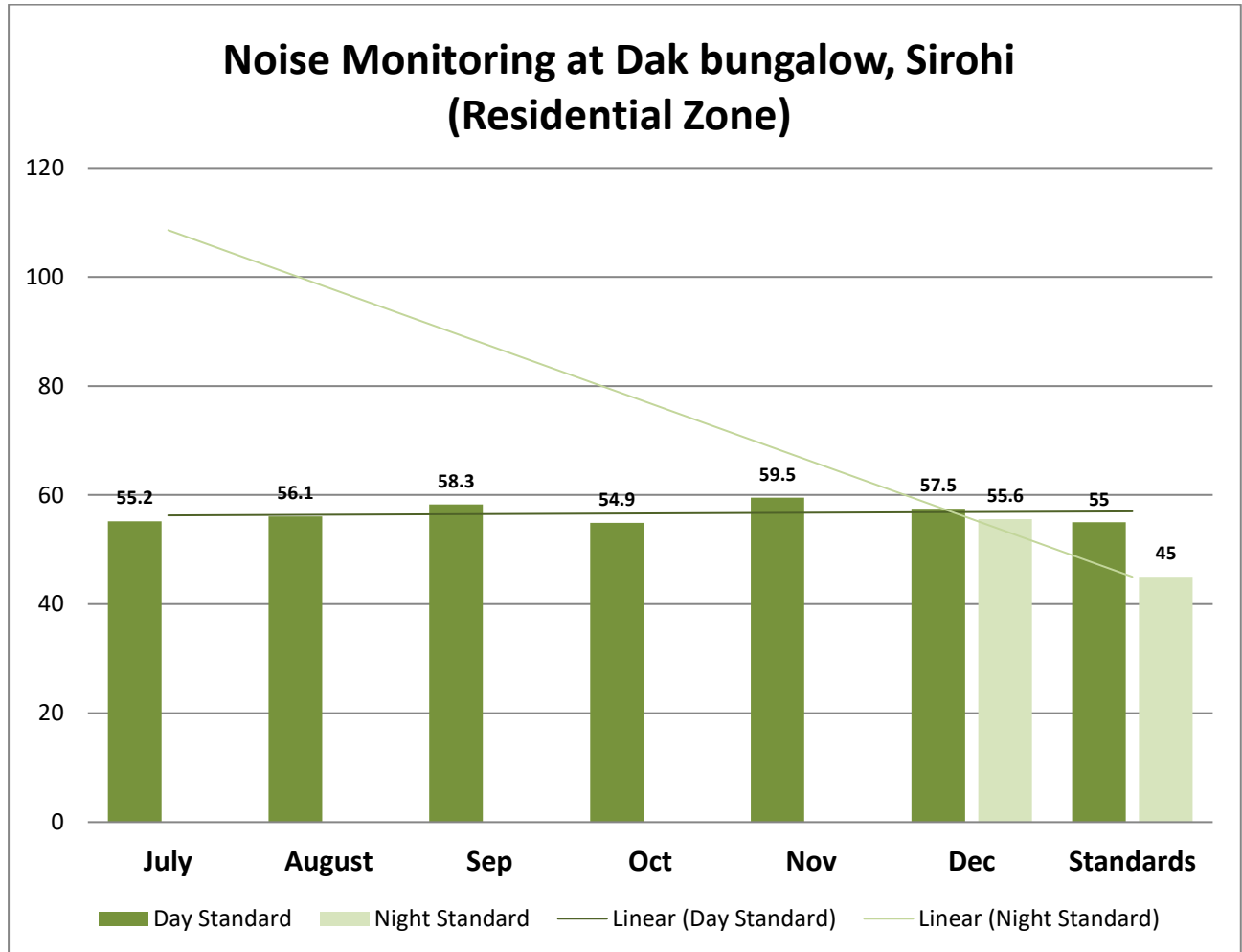
Zone wise data interpretation of noise level from July to December, 2021

Industrial Zone



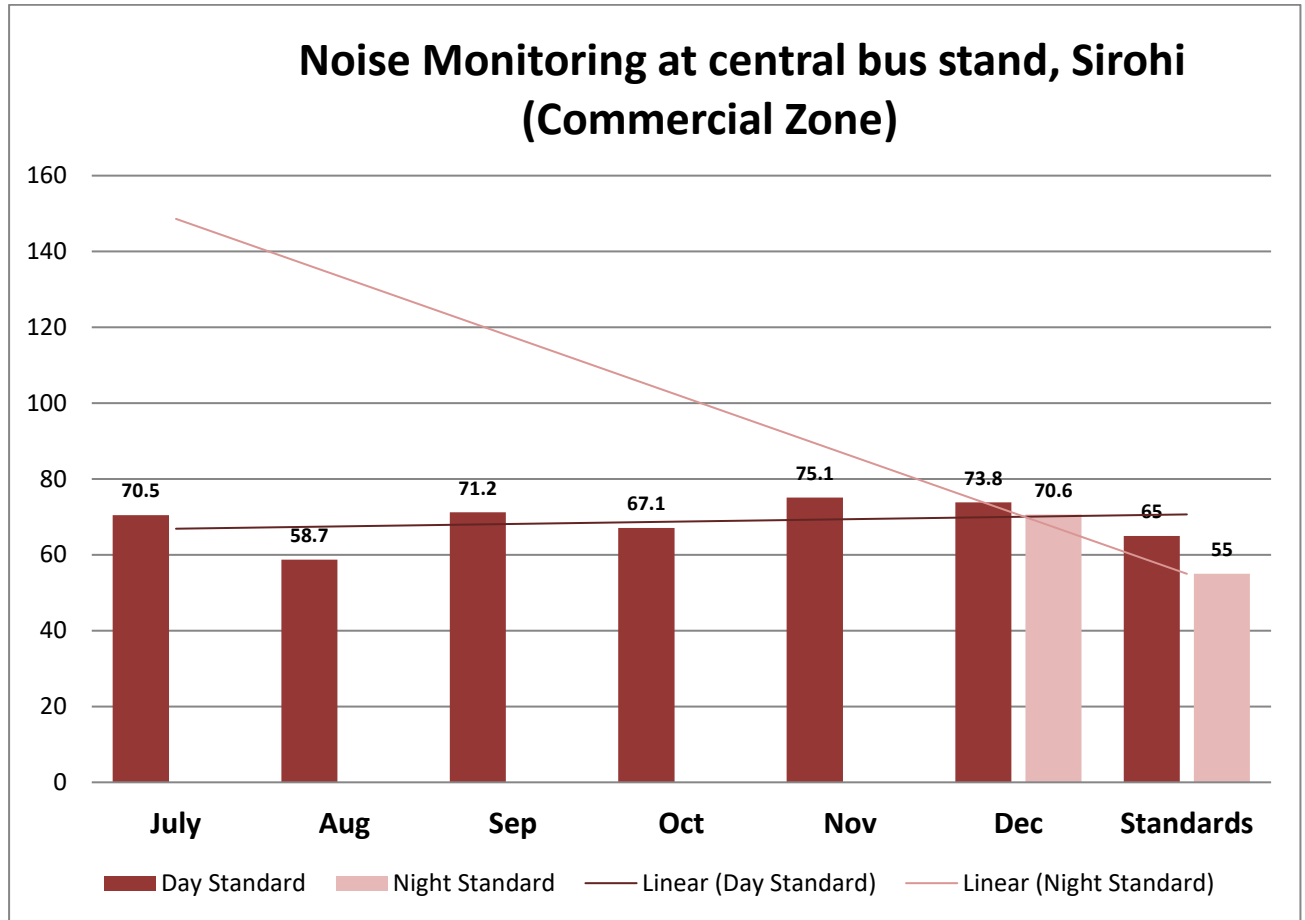
In industrial zone sound level ranges from 62.7 to 68.2 dB (A) during day time from July to December 2021 and was 60 dB (A) during night time in December 2021. All the results were found beyond within the prescribed limits for Industrial zone. Peak noise level for day time was observed in the month of July 2021 with a reading of 68.2 dB (A).

Residential Zone



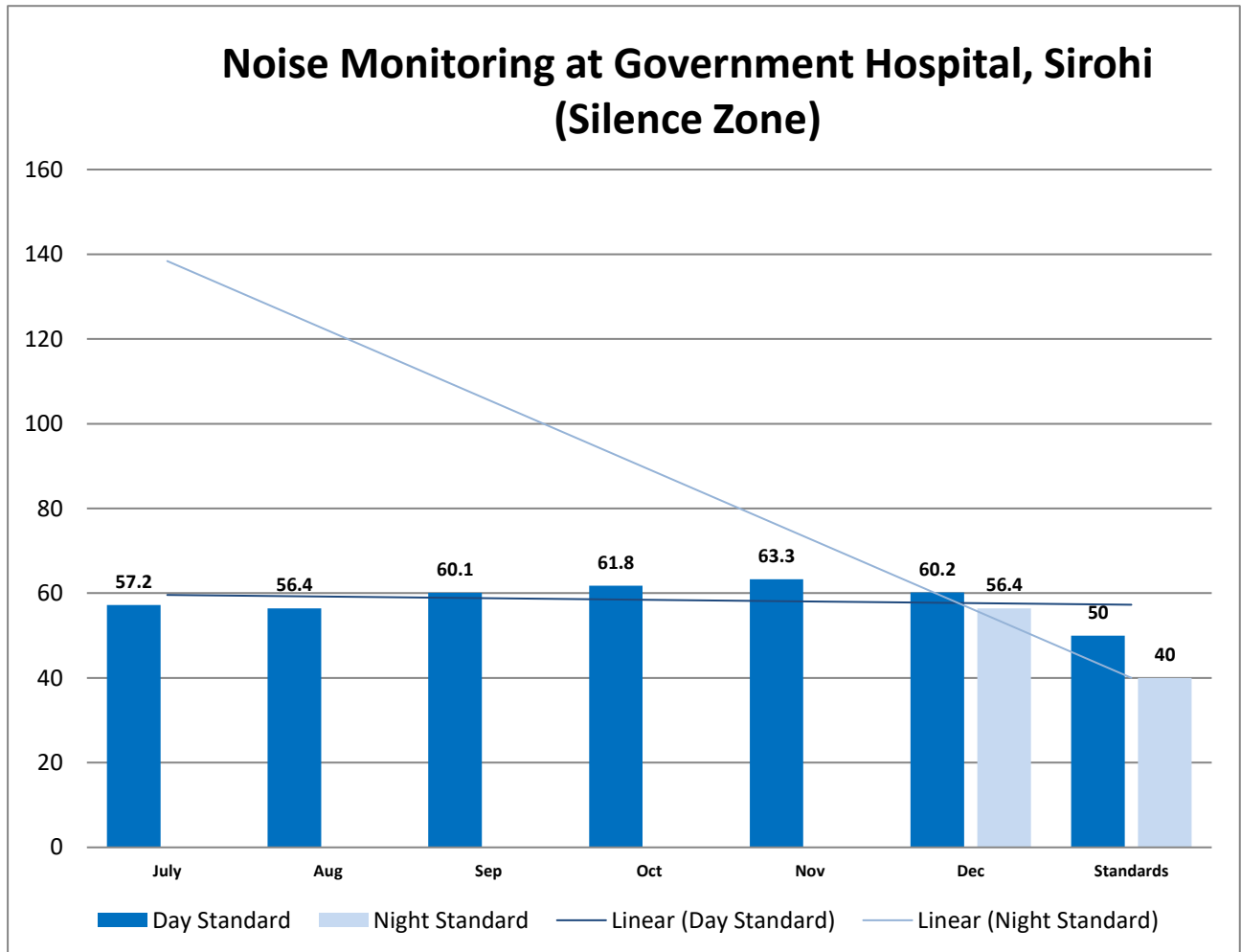
In Residential zone, sound level ranges from 54.9 dB(A) to 59.5 dB(A) during day time from July to December 2021 and was 60 dB (A) during night time in December 2021. 100% of exceedance of prescribed standards was observed during day time from the prescribed standards for Residential zone except for the month of October when a reading of 54.9 dB (A) was observed.

Commercial Zone



In commercial zone, sound level ranges from 58.7 dB(A) to 75.1 dB(A) during day time from July to December 2021 and was 70.6 dB (A) during night time in December 2021. 100% exceedance of prescribed standards was observed during day time from the prescribed standards for commercial zone except for the month of August 2021. Maximum exceedance of 17.07% from day time noise standard was observed for the month of November 2021.

Silence Zone



In silence zone, sound level ranges from 56.4 to 63.3 dB(A) during day time from July to December 2021 and was 56.4 dB(A) during night time in December 2021. 100% of exceedance from prescribed standards was observed during day time from July to December 2021. Maximum exceedance of 26.6% from the standard value for silent zone was observed in the month of November 2021.



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