

REPORT ON AMBIENT NOISE MONITORING IN METROPOLITAN CITES, 2019



MAHARASHTRA POLLUTION CONTROL BOARD

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Foreword

Noise pollution in Maharashtra is mainly due to vehicular movements, construction activity, increase in crowd etc. The bad road quality enhances vibration entering homes near busy traffic junctions. Maharashtra Pollution Control Board has conducted an extensive noise monitoring study in 27 Municipal Corporations of Maharashtra for studying the trend of noise level in these Metropolitan cities. Noise monitoring was carried out at 104 locations for 2 days i.e. on 22nd December (non-working day) and 23rd December (working day) 2019 for 24 hours for each location which comprise of residential, commercial and silence zone.

This report contains the methodology and observations made during the study. Higher levels of noise are hazardous and it is also difficult to make them escape in a closed environment. The increased levels of noise pollution in the environment have made it an urgent need to create awareness about the causes, effects, and prevention of noise pollution. The higher level of noise should be reduced at home and also at a workplace. People should be educated about the hazards of noise pollution. Let's all make it our responsibility to prevent the environment from further noise pollution and make the earth a better place to live in.

Field monitoring of this study was conducted by M/s Mahabal Enviro Pvt. Ltd., Thane, was supported by all Regional offices of the Board, in the field. The entire study work including planning, co-ordination and report preparation was done at Joint Director (Air Pollution Control) division of the Board, The contributions of Dr. Vidyanand Motghare, Joint Director (APC), Shri. S.C. Kollur and Shri. Salil Save is appreciated.

(E. Ravendiran, IAS)

Member Secretary

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Abbreviations

CPCB Central Pollution Control Board

dB Decibel

dB(A) Decibels with "A" weighting

EPA Environmental Protection Act, 1986

Hz Hertz

MPCB Maharashtra Pollution Control Board

KHz Kilo Hertz

L_{Aeq} Equivalent continuous A-weighted sound pressure level (dB)

L_{max} Maximum sound pressure level (dB)

L_{min} Minimum sound pressure level (dB)

SPL Sound Pressure Level

Introduction

Noise pollution is a form of pollution which has become very deadly nowadays. This pollution is increasing only and creates an unsafe environment. Noise pollution is when the level of noise increases more than the normal level. When the amount of noise exceeds, it becomes dangerous for living beings. Moreover, these unpleasant sounds cause several disturbances and create an imbalance in the environment.

As the world is turning to technology for their comfort, it is, at the same time, harming us. The industries no matter how big or small contribute to noise pollution. The equipment they use like compressors, exhaust fans, generators and more produce a lot of noise. Similarly, the ever-increasing use of automobiles is a major cause of this pollution. Not only automobiles but other transport vehicles like airplanes, buses, bikes, trucks and more also are a part of it. People honk unnecessarily in the traffic and listen to loud music on the way which creates high levels of noise. Furthermore, social events like marriages, parties, and religious functions in places like clubs, pubs, temples, halls and more create a lot of nuisance in the residential areas. In addition, the construction activities like mining, the building of flyovers, bridges and more also produce great noise.

Maharashtra Pollution Control Board have been carrying out study of the ambient noise levels at Metropolitan cities in the state of Maharashtra during December for more than 10 years as a continuous process. Noise monitoring was carried out at 104 locations from 27 Municipal Corporation of Maharashtra for 2 days in the month of December on 22nd (non-working day) and 23rd December (working day) 2019 for 24 hours for each location which comprise of residential, commercial and silence zone.

A Review of Noise Descriptors

Sound is usually made up of a wide range of different frequencies. The spread of sound energy across the audible frequency "spectrum" (about 20Hz – 20kHz) is one factor that helps to make it identifiable to the human ear. The human ear is a very sensitive system with an extensive dynamic range. To accommodate this very large range, sound levels are measured using the **decibel (dB) scale**.

A sound level meter theoretically has a flat response, in other words it responds exactly the same at different frequencies. Unlike a sound level meter, the human ear responds differently at different frequencies, so a weighting, or filter, can be used so that the meter responds more like the human ear. The most commonly used weighting is referred to as the '**A**' weighting and readings are usually measured in dBA. The "**sound pressure level**" (SPL) is twenty times the logarithm to the base 10 of the ratio of the effective pressure (p) of a sound to the reference pressure (Pr) of 20 µPa. Thus the sound pressure level in dB = $20 \log_{10} P/Pr$.

In most cases, the sound and noise we hear are not steady. Apart from variation in tones, the magnitude or the sound pressure level of a sound or noise changes with time. The equivalent continuous noise level (Leq) is the sound pressure level of a steady sound that has, over a given period, the same energy as a fluctuating sound in question.

The sound level limits specified by CPCB, represent the general limitation on noise produced by noise sources. Some noises, however, are annoying no matter where or in what kind of environment they exist. High level impulsive noises represent a special category and, consequently, are restricted by an absolute limitation.

The Central Pollution Control Board (CPCB) constituted a National Committee of Experts on Noise Pollution Control. The Committee recommended noise standards for ambient air and for automobiles, domestic appliances and construction equipment, which were later notified under The Environment (Protection) Act, 1986 as given below:

Table 2.1: Standards of Noise Levels under EPA (1986): Noise Pollution (Regulation & Control) Rules, 2000

Area Code	Category of Area	Limits in dB(A) L_{eq}	
		Day time	Night time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note:

1. Day time is reckoned from 6 A.M. To 10 P.M.
2. Night time is reckoned in from 10 P.M. and 6 A.M.
3. Silence zone is referred as areas within 100 meters around premises such as hospitals, educational institutions and courts. The Silence zones are to be declared by the Competent Authority.
4. Use of vehicular horns, loudspeakers and bursting of crackers shall be banned in these zones.
5. Mixed categories of areas should be declared as one of the four above mentioned categories by the Competent Authority and the corresponding standards shall apply.

State GR / Notification: Implementation Authority for Noise Rules in Maharashtra is enclosed at **Annexure - III**

Methodology of the project

The ambient noise monitoring was carried out at Metropolitan cities in the state of Maharashtra for 104 locations which is covered under 27 Municipal Corporation all over Maharashtra. The monitoring was carried out for 2 days considering the noise that generate for non-working day i.e. on 22nd December and for a working day on 23rd December for 24 hours. The noise monitoring was carried out using calibrated Sound Level Meters (Type I).

The details of number noise monitoring locations in different Municipal Corporation all over Maharashtra as provided in **Table 3.1** below:

Table 3.1: Noise Monitoring Locations at Metropolitan Cities in Maharashtra: 2019.

Sr.	Municipal Corporation	Number of locations
1.	Mumbai South	15
2.	Navi Mumbai	03
3.	Thane	05
4.	Pune	05
5.	Nashik	05
6.	Aurangabad	05
7.	Nagpur	05
8.	Kalyan	03
9.	Amravati	03
10.	Jalgaon	03
11.	Kolhapur	04
12.	Sangli	03
13.	Mira – Bhyander	03
14.	Vasai – Virar	03
15.	Ulhas nagar	03
16.	Bhiwandi – Nizampur	03
17.	Chandrapur	03
18.	Nanded – Waghala	03
19.	Ahmednagar	03
20.	Dhule	03
21.	Malegaon	03
22.	Pimpri – Chinchwad	03
23.	Parbhani	03
24.	Latur	03
25.	Akola	03
26.	Solapur	03
27.	Panvel	03
Total No. of stations		104

The detailed list of locations is given in **Annexure I**.

Results

Hourly Noise Levels on 22nd and 23rd December 2019 at Metropolitan cities at different locations in Maharashtra is given in **Annexure IV**. The equivalent steady sound level of a noise energy-averaged over time was calculated represented as L_{eq} based on which the impact of noise created during the festival is measured. The formula for calculating L_{eq} is as given below:

$$L_{eq,T} = 10 \log \left(1/n \sum_{i=1}^n 10^{\frac{L_i}{10}} \right)$$

Where, L_i = levels observed at n equally spaced times during interval T.

In the present study, hourly and day wise L_{eq} has been calculated to compare the results obtained from various locations.

1. Mumbai

In Mumbai a total of 15 locations were monitored. The highest noise level during day time on 22nd and 23rd December 2019 with 76.9 dB(A) at Antop hill and 75.3 dB(A) at Goregaon East respectively and during night time the highest noise level on both days was observed at Matunga with 70.8 dB(A) and 69.4 dB(A) respectively.

Table 4.1: Noise Levels in Mumbai

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Backside of High Court	22.12.2019	73.6	80.3	51.8	77.2	71.0	68.3
Mumbadevi Temple	22.12.2019	74.5	81.3	58.3	78.0	72.9	67.3
Borivali National Park	22.12.2019	67.0	69.7	54.6	69.5	67.3	62.4
Antop Hill	22.12.2019	76.9	80.0	55.2	79.2	77.6	69.6
Shivaji Park, Dadar	22.12.2019	69.2	75.5	54.2	74.3	63.4	56.8
Santacruz Airport	22.12.2019	70.8	75.2	65.2	73.3	70.4	67.4
Ghatkopar (W)	22.12.2019	69.2	71.9	65.4	71.4	69.1	66.8
Vashi Naka, Chembur	22.12.2019	71.6	77.5	61.6	74.2	71.2	67.4
Goregaon (E)	22.12.2019	69.7	75.8	61.0	72.3	69.0	64.4
Charkop, Kandivali	22.12.2019	65.8	72.9	56.5	70.9	61.4	58.6
Sion	22.12.2019	62.7	69.4	53.1	67.4	58.3	54.6
Hindu Colony	22.12.2019	72.1	77.2	59.9	74.9	71.4	69.0
Matunga	22.12.2019	69.8	75.3	63.0	73.8	68.3	65.7
Kamathipura	22.12.2019	72.3	75.8	63.2	74.1	72.3	70.8

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Malabar Hills	22.12.2019	68.4	74.1	56.7	73.2	65.5	62.1
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Backside of High Court	22.12.2019	65.3	73.2	54.3	65.6	59.9	55.0
Mumbadevi Temple	22.12.2019	62.6	68.4	52.3	65.5	59.5	54.8
Borivali National Park	22.12.2019	60.6	64.6	51.9	63.8	59.7	53.4
Antop Hill	22.12.2019	60.2	66.3	45.3	62.8	58.4	51.3
Shivaji Park, Dadar	22.12.2019	64.9	71.3	49.7	69.9	55.1	50.1
Santacruz Airport	22.12.2019	63.2	68.6	48.5	67.8	58.7	53.3
Ghatkopar (W)	22.12.2019	62.4	66.5	52.3	66.4	58.3	52.3
Vashi Naka, Chembur	22.12.2019	67.2	73.1	53.6	70.4	63.4	54.8
Goregaon (E)	22.12.2019	63.4	69.8	50.4	66.7	56.4	51.3
Charkop, Kandivali	22.12.2019	66.9	74.6	57.2	68.0	61.8	58.4
Sion	22.12.2019	63.3	69.0	50.6	65.9	60.8	56.0
Hindu Colony	22.12.2019	68.1	74.7	54.2	72.0	55.6	54.3
Matunga	22.12.2019	70.8	79.6	58.4	66.2	59.4	58.5

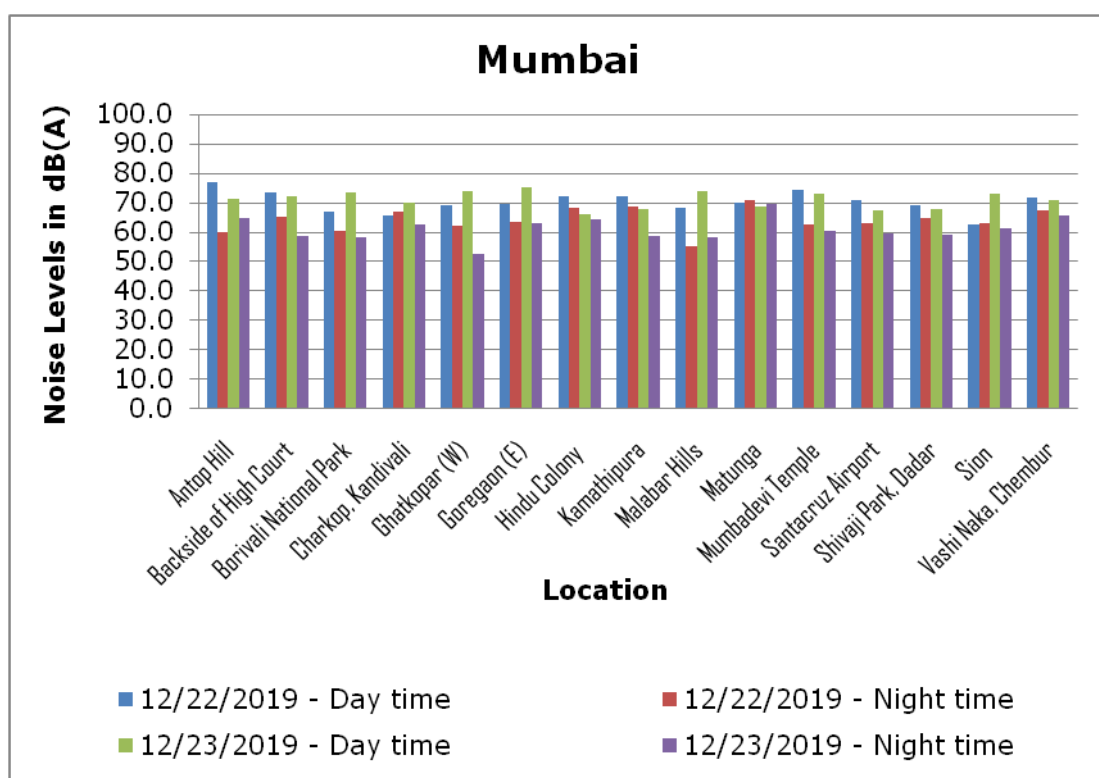
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L_{eq}	L_{max}	L_{min}	L₁₀	L₅₀	L₉₀
Kamathipura	22.12.2019	68.6	75.4	42.3	74.0	56.2	42.8
Malabar Hills	22.12.2019	55.2	61.8	43.2	59.5	47.9	43.6

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L_{eq}	L_{max}	L_{min}	L₁₀	L₅₀	L₉₀
Backside of High Court	23.12.2019	72.1	76.1	63.2	75.9	71.6	64.7
Mumbadevi Temple	23.12.2019	72.9	78.5	64.4	75.7	71.6	68.3
Borivali National Park	23.12.2019	73.7	77.3	59.6	76.8	73.3	67.3
Antop Hill	23.12.2019	71.4	81.8	59.1	73.8	62.2	59.4
Shivaji Park, Dadar	23.12.2019	67.8	75.0	51.7	70.3	65.4	58.4
Santacruz Airport	23.12.2019	67.5	73.2	62.2	70.8	65.2	62.6
Ghatkopar (W)	23.12.2019	74.0	78.2	67.1	77.1	73.1	70.3
Vashi Naka, Chembur	23.12.2019	70.8	77.6	59.8	75.0	63.8	60.0
Goregaon (E)	23.12.2019	75.3	81.6	64.6	79.7	71.2	66.6
Charkop, Kandivali	23.12.2019	70.0	75.1	63.7	73.4	67.3	65.0
Sion	23.12.2019	73.3	78.4	62.8	77.2	71.6	64.3
Hindu Colony	23.12.2019	66.2	74.3	49.9	68.3	64.4	54.5

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Matunga	23.12.2019	68.9	71.5	64.5	70.9	68.6	65.5
Kamathipura	23.12.2019	67.7	77.0	53.3	69.2	63.6	60.1
Malabar Hills	23.12.2019	74.0	78.4	62.8	78.2	72.8	65.0
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Backside of High Court	23.12.2019	58.6	61.4	52.8	61.1	58.2	53.6
Mumbadevi Temple	23.12.2019	60.5	67.1	50.9	63.6	54.5	53.2
Borivali National Park	23.12.2019	58.1	65.3	38.8	61.4	50.9	40.1
Antop Hill	23.12.2019	64.7	72.2	42.3	66.3	61.5	45.0
Shivaji Park, Dadar	23.12.2019	59.0	65.6	39.5	62.8	52.2	40.6
Santacruz Airport	23.12.2019	59.4	63.2	54.7	63.1	57.7	55.3
Ghatkopar (W)	23.12.2019	52.6	60.9	34.6	52.6	44.9	36.4
Vashi Naka, Chembur	23.12.2019	65.5	72.3	53.2	69.4	60.2	54.0
Goregaon (E)	23.12.2019	62.9	70.5	48.0	65.4	52.9	49.8
Charkop, Kandivali	23.12.2019	62.4	67.5	51.3	66.2	56.3	52.0
Sion	23.12.2019	61.2	69.6	51.3	59.2	53.0	52.0

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Hindu Colony	23.12.2019	64.5	72.1	44.2	66.6	58.1	49.9
Matunga	23.12.2019	69.4	78.1	52.1	67.0	58.3	53.6
Kamathipura	23.12.2019	58.8	65.6	45.7	61.4	54.8	50.3
Malabar Hills	23.12.2019	58.2	62.3	45.3	61.6	56.4	50.2

Chart 4.1: Noise Levels in Mumbai



2. Navi Mumbai

In Navi Mumbai a total of 3 locations were monitored. The highest noise level during day time and night time was observed at Mahape Shil Road and Ryan International School respectively on both working day and non-working day.

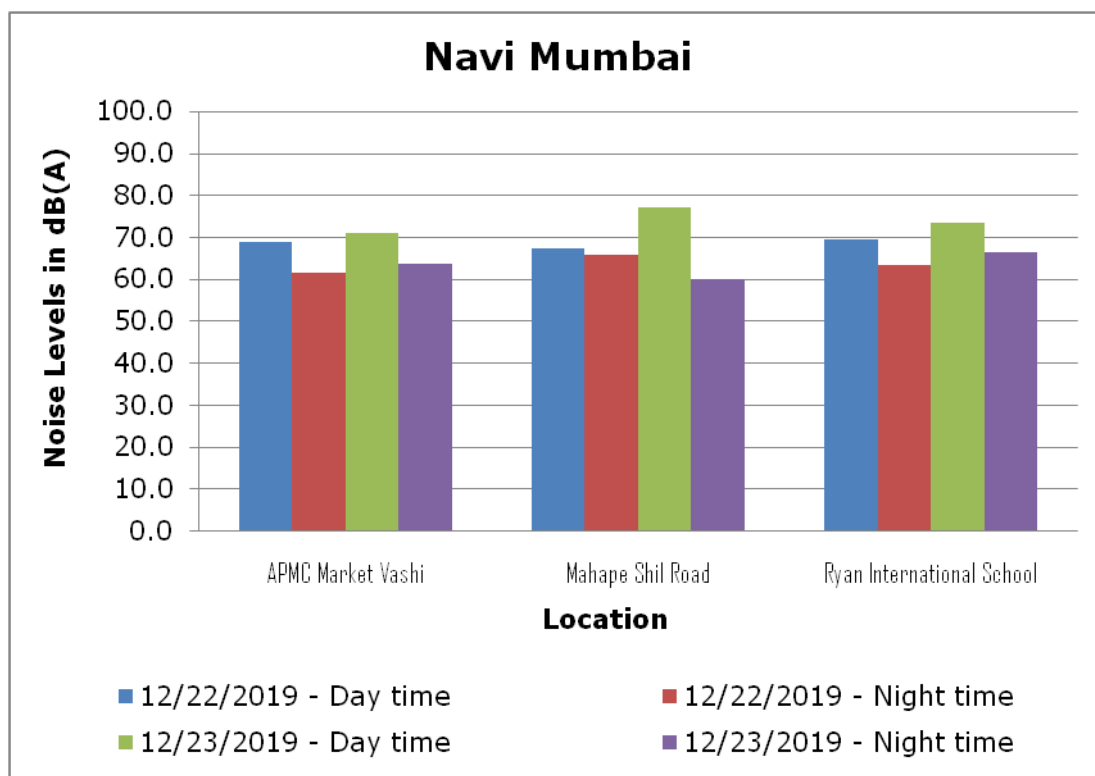
Table 4.2: Noise Levels in Navi Mumbai

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Mahape Shil Road	22.12.2019	67.3	72.9	60.5	69.6	66.3	62.6
APMC Market Vashi	22.12.2019	68.8	72.1	64.1	70.5	68.8	66.8
Ryan International School	22.12.2019	69.6	73.5	65.4	72.3	69.4	66.5
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Mahape Shil Road	22.12.2019	65.7	71.8	53.5	68.2	62.7	56.1
APMC Market Vashi	22.12.2019	61.6	69.3	49.7	64.5	54.6	50.1
Ryan International School	22.12.2019	63.3	69.3	52.3	65.5	61.2	57.2
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Mahape Shil Road	23.12.2019	77.0	80.9	66.3	80.0	76.3	70.5

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
APMC Market Vashi	23.12.2019	71.2	77.8	59.6	74.9	68.0	61.1
Ryan International School	23.12.2019	73.4	79.9	64.6	77.6	70.0	66.2

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Mahape Shil Road	23.12.2019	60.0	63.4	45.2	63.2	58.8	53.6
APMC Market Vashi	23.12.2019	63.8	68.3	43.0	67.3	63.0	51.6
Ryan International School	23.12.2019	66.5	73.1	51.4	70.4	58.3	52.2

Chart 4.2: Noise Levels in Navi Mumbai



3. Thane

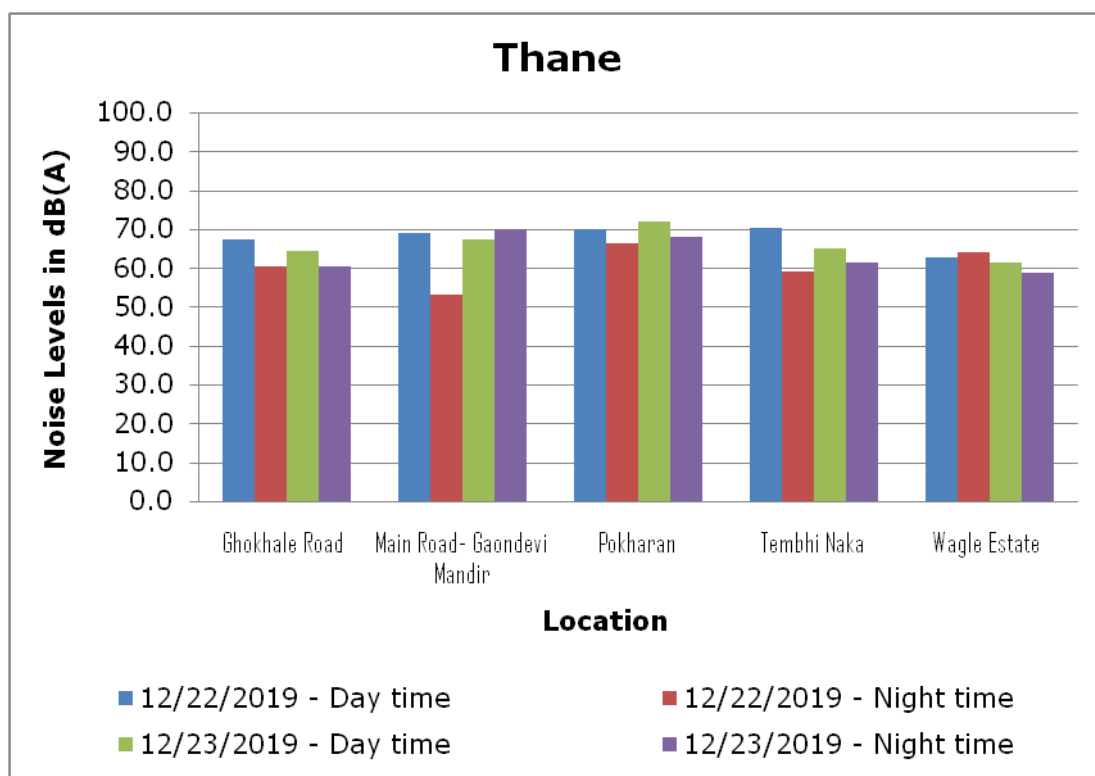
In Thane a total of 5 locations where monitored. The highest noise level during day time on 22nd and 23rd December 2019 with 70.3 dB(A) at Tembi Naka and 75.3 db(A) at Main Road- Gaondevi Mandir repectively and during night time the highest noise level on both days was observed at Pokharan with 66.5 dB(A) and 71.9 dB(A) respectively.

Table 4.3: Noise Levels in Thane

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Main Road-Gaondevi Mandir	22.12.2019	69.0	74.2	65.4	71.0	67.6	66.0
Tembhi Naka	22.12.2019	70.3	78.1	62.4	73.2	67.5	62.8
Ghokhale Road	22.12.2019	67.5	70.9	62.1	70.3	66.9	63.8
Pokharan	22.12.2019	70.0	76.9	57.1	73.3	67.4	64.7
Wagle Estate	22.12.2019	62.8	70.6	54.4	66.8	56.3	54.9
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Main Road-Gaondevi Mandir	22.12.2019	53.3	60.4	43.4	55.8	47.0	44.0
Tembhi Naka	22.12.2019	59.1	62.6	54.7	61.1	58.8	55.1
Ghokhale Road	22.12.2019	60.6	65.7	45.7	64.4	58.4	48.2
Pokharan	22.12.2019	66.5	71.2	49.3	70.8	61.3	52.3
Wagle Estate	22.12.2019	64.1	72.1	45.1	64.5	58.3	52.5

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Main Road-Gaondevi Mandir	23.12.2019	70.1	76.7	62.9	72.1	68.9	64.2
Tembhi Naka	23.12.2019	61.4	65.6	51.8	65.1	60.5	54.2
Ghokhale Road	23.12.2019	60.6	62.5	51.4	62.1	60.9	58.6
Pokharan	23.12.2019	67.9	74.1	60.1	71.3	64.9	62.0
Wagle Estate	23.12.2019	58.7	64.4	52.0	62.8	55.5	54.0
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Main Road-Gaondevi Mandir	23.12.2019	67.5	75.9	35.4	69.6	52.6	36.4
Tembhi Naka	23.12.2019	65.0	70.5	41.2	70.0	56.3	48.5
Ghokhale Road	23.12.2019	64.5	69.0	54.1	68.5	56.8	54.6
Pokharan	23.12.2019	71.9	80.6	38.1	70.9	55.9	38.4
Wagle Estate	23.12.2019	61.6	65.1	51.9	64.1	61.8	54.1

Chart 4.3: Noise Levels in Thane



4. Pune

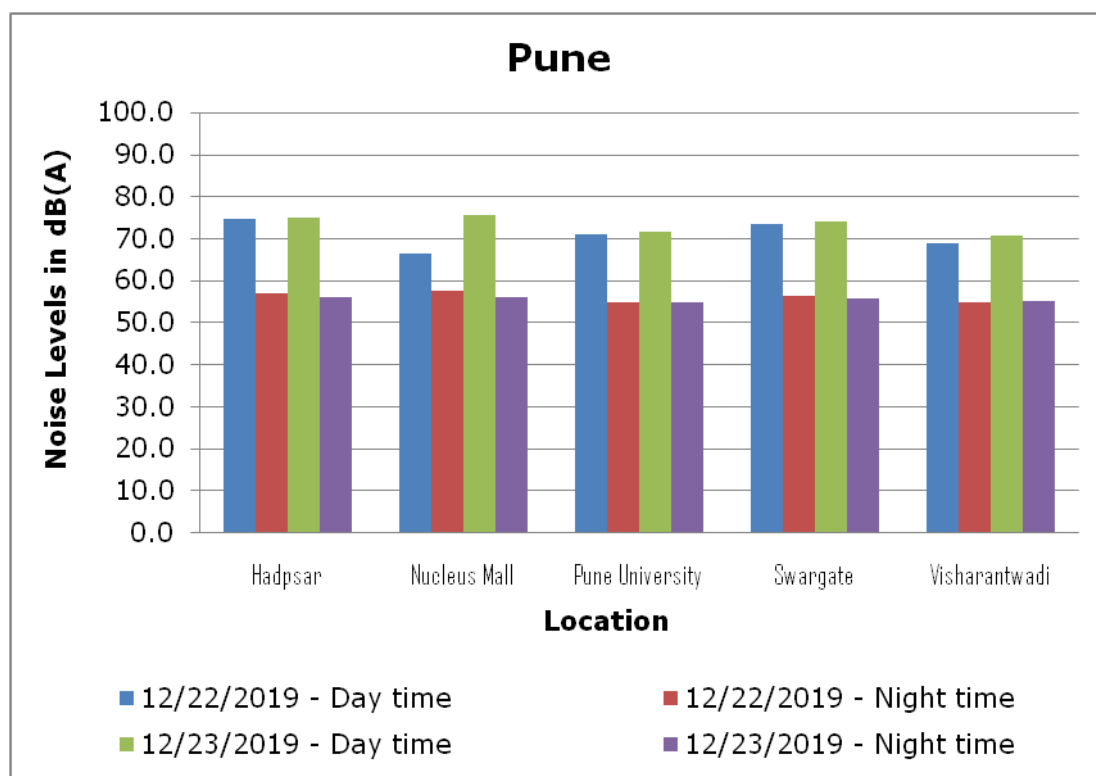
Five locations were monitored in Pune region. On 22nd December, the highest noise level during day time with 74.8 dB(A) and during night time with 57.6 dB(A) was observed at Hadpsar and Nucleus mall respectively. On 23rd December the highest noise level both during day time and during night time was observed at Nucleus Mall.

Table 4.4: Noise Levels in Pune

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Nucleus Mall	22.12.2019	66.5	72.5	53.8	69.0	66.0	63.0
Pune University	22.12.2019	70.9	77.3	57.3	74.1	69.8	64.0
Swargate	22.12.2019	73.6	78.1	53.4	76.8	73.7	65.8
Hadpsar	22.12.2019	74.8	79.3	58.3	78.1	74.6	64.8
Visharantwadi	22.12.2019	69.0	74.6	57.8	72.8	67.4	61.9
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Nucleus Mall	22.12.2019	57.6	64.9	39.8	60.4	49.1	40.2
Pune University	22.12.2019	54.8	61.2	42.1	58.5	48.2	43.6
Swargate	22.12.2019	56.4	62.4	43.5	61.6	48.4	44.1
Hadpsar	22.12.2019	56.9	63.2	46.2	60.1	51.0	46.8
Visharantwadi	22.12.2019	54.8	60.2	43.2	59.9	49.1	43.8

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Nucleus Mall	23.12.2019	75.6	79.5	54.6	79.0	75.3	61.2
Pune University	23.12.2019	71.7	76.9	61.2	74.7	71.1	62.8
Swargate	23.12.2019	74.3	77.9	56.7	77.5	73.5	63.3
Hadpsar	23.12.2019	74.9	79.6	59.6	79.0	73.8	63.1
Visharantwadi	23.12.2019	70.6	75.6	60.3	74.3	68.1	62.9
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Nucleus Mall	23.12.2019	56.2	61.8	41.3	61.7	49.6	42.4
Pune University	23.12.2019	54.9	60.8	43.6	59.3	46.4	43.7
Swargate	23.12.2019	55.7	61.4	42.3	61.0	47.1	43.4
Hadpsar	23.12.2019	56.0	62.8	44.6	59.0	49.6	46.1
Visharantwadi	23.12.2019	55.3	61.7	44.0	59.4	49.5	44.4

Chart 4.4: Noise Levels in Pune



5. Nashik

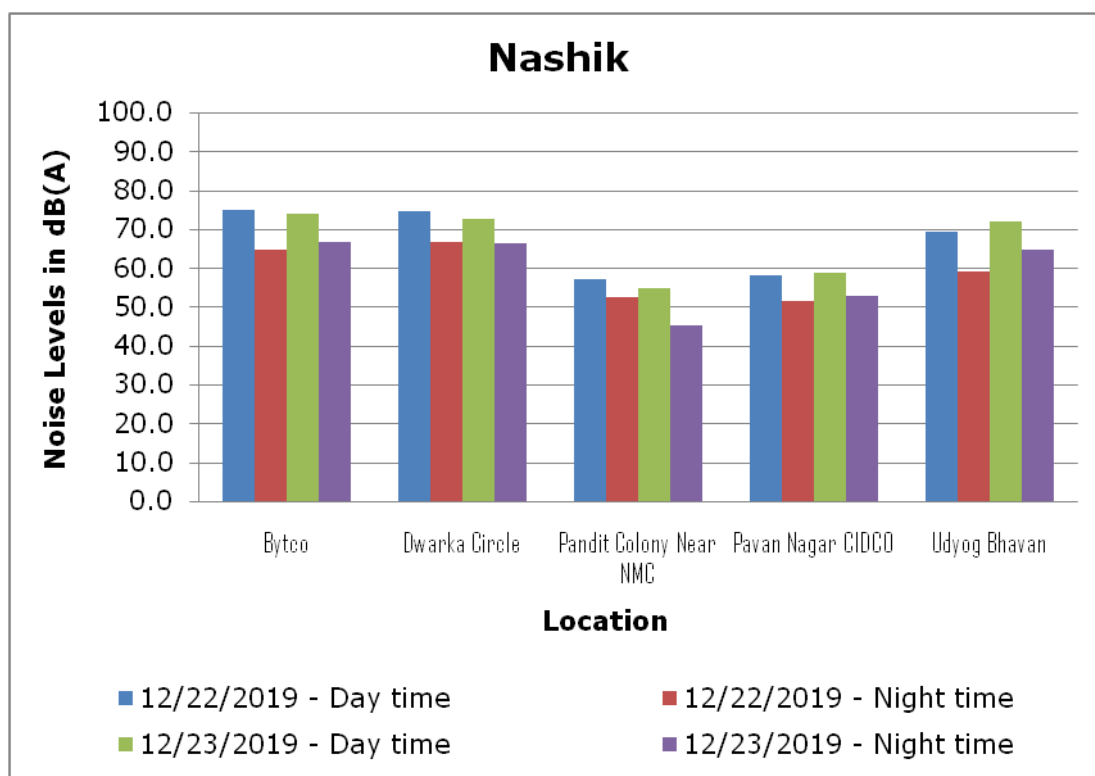
Five locations were monitored in Nashik region also. On 22nd December, the highest noise level during day time with 75.1 dB(A) and during night time with 66.6 dB(A) was observed at Bytco and Dwarka Circle respectively. On 23rd December the highest noise level both during day time and during night time was observed at Bytco.

Table 4.5: Noise Levels in Nashik

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Dwarka Circle	22.12.2019	74.7	79.4	66.1	78.0	72.1	67.2
Pandit Colony Near NMC	22.12.2019	57.1	61.2	47.5	59.6	57.1	51.9
Pavan Nagar CIDCO	22.12.2019	58.2	62.4	48.1	62.0	57.8	52.7
Bytco	22.12.2019	75.1	77.9	70.2	77.3	74.8	70.5
Udyog Bhavan, Satpur	22.12.2019	69.3	72.5	65.7	71.1	69.0	66.3
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Dwarka Circle	22.12.2019	66.6	67.9	64.2	67.8	66.5	64.6
Pandit Colony Near NMC	22.12.2019	52.5	56.5	46.1	55.6	51.4	46.4
Pavan Nagar CIDCO	22.12.2019	51.4	55.2	45.0	54.9	50.0	45.6
Bytco	22.12.2019	64.8	68.2	58.0	67.6	63.4	58.2
Udyog Bhavan, Satpur	22.12.2019	59.2	63.8	53.2	62.8	56.5	53.7

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Dwarka Circle	23.12.2019	72.7	76.8	66.7	75.4	71.8	67.6
Pandit Colony Near NMC	23.12.2019	55.0	59.1	46.8	58.8	53.3	47.8
Pavan Nagar CIDCO	23.12.2019	58.7	63.4	47.2	62.8	57.1	48.1
Bytco	23.12.2019	73.9	76.8	68.9	76.3	73.0	69.8
Udyog Bhavan, Satpur	23.12.2019	72.1	74.9	68.3	74.3	71.4	69.3
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Dwarka Circle	23.12.2019	66.5	68.7	63.8	68.5	66.0	64.1
Pandit Colony Near NMC	23.12.2019	45.3	47.5	43.5	46.6	45.1	43.6
Pavan Nagar CIDCO	23.12.2019	53.0	58.4	47.8	56.3	50.0	48.4
Bytco	23.12.2019	66.7	68.4	63.8	68.2	66.6	64.1
Udyog Bhavan, Satpur	23.12.2019	64.6	66.9	61.2	66.0	64.5	62.3

Chart 4.5: Noise Levels in Nashik



6. Aurangabad

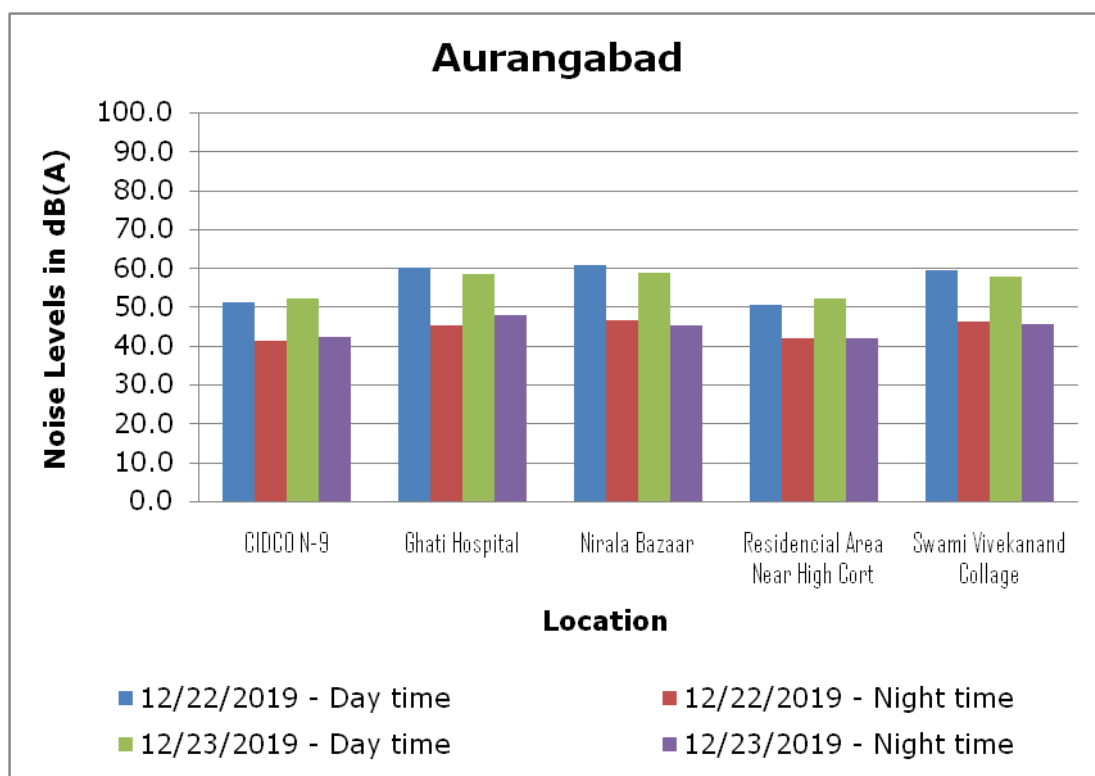
Five locations were monitored for Aurangabad region. The highest noise level on 22nd December both during day time and night time was observed at Nirala Bazaar. On 23rd December the highest noise level during day time was observed at Ghati Hospital with 45 dB(A) and during night time the highest noise level was observed at 58.8 dB(A).

Table 4.6: Noise Levels in Aurangabad

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Ghati Hospital	22.12.2019	60.2	64.0	51.0	63.0	60.6	55.5
Nirala Bazaar	22.12.2019	60.9	65.0	48.0	64.5	60.9	53.5
CIDCO N-9	22.12.2019	51.1	55.0	45.0	53.0	51.0	48.0
Residencial Area Near High Cort	22.12.2019	50.5	53.0	45.0	52.0	50.8	49.0
Swami Vivekanand Collage	22.12.2019	59.5	64.0	46.0	63.5	58.0	50.0
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Ghati Hospital	22.12.2019	45.2	50.0	39.0	48.6	42.5	40.4
Nirala Bazaar	22.12.2019	46.5	53.0	38.0	50.2	42.5	39.4
CIDCO N-9	22.12.2019	41.4	43.0	39.0	43.0	41.5	39.0
Residencial Area Near High Cort	22.12.2019	42.0	45.0	38.0	44.3	41.0	38.7
Swami Vivekanand Collage	22.12.2019	46.2	52.0	41.0	48.5	43.0	41.7

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L_{eq}	L_{max}	L_{min}	L₁₀	L₅₀	L₉₀
Ghati Hospital	23.12.2019	58.6	62.0	49.0	61.0	58.5	51.5
Nirala Bazaar	23.12.2019	58.8	62.0	50.0	62.0	58.0	51.5
CIDCO N-9	23.12.2019	52.1	57.0	47.0	54.0	52.0	48.5
Residencial Area Near High Cort	23.12.2019	52.1	55.0	47.0	54.5	52.0	49.0
Swami Vivekanand Collage	23.12.2019	57.8	62.0	50.0	61.0	56.5	51.5
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L_{eq}	L_{max}	L_{min}	L₁₀	L₅₀	L₉₀
Ghati Hospital	23.12.2019	48.0	54.0	40.0	51.9	43.5	40.7
Nirala Bazaar	23.12.2019	45.2	50.0	40.0	48.6	42.0	40.0
CIDCO N-9	23.12.2019	42.2	47.0	37.0	44.2	41.0	37.7
Residencial Area Near High Cort	23.12.2019	41.8	45.0	40.0	42.9	41.0	40.0
Swami Vivekanand Collage	23.12.2019	45.6	50.0	40.0	49.3	42.5	40.7

Chart 4.6: Noise Levels in Aurangabad



7. Nagpur

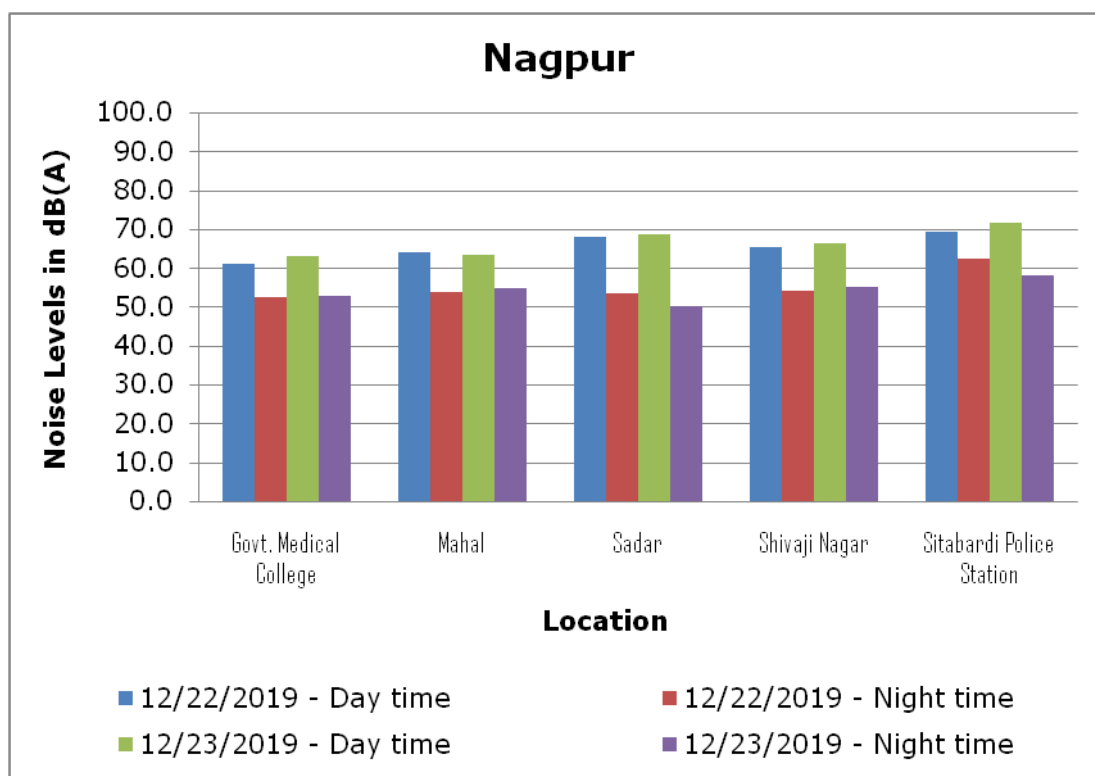
In Nagpur region 5 locations were monitored. On 22nd and 23rd December, the highest noise level both during daytime and night time was observed at Sitabardi Police Station.

Table 4.7: Noise Levels in Nagpur

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Govt. Medical College	22.12.2019	61.0	65.2	53.7	62.5	60.9	59.3
Sitabardi Police Station	22.12.2019	69.2	75.0	52.2	72.8	66.5	63.8
Shivaji Nagar	22.12.2019	65.3	72.9	55.6	66.6	63.3	61.7
Mahal	22.12.2019	64.2	66.4	53.6	66.1	64.2	63.3
Sadar	22.12.2019	68.2	73.2	54.7	70.2	68.0	65.1
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Govt. Medical College	22.12.2019	52.5	56.1	45.6	55.5	51.3	46.9
Sitabardi Police Station	22.12.2019	62.3	69.3	42.8	66.8	51.7	46.0
Shivaji Nagar	22.12.2019	54.3	60.3	40.5	58.5	50.2	43.0
Mahal	22.12.2019	53.8	59.7	44.9	57.6	50.6	45.3
Sadar	22.12.2019	53.5	59.9	41.3	56.9	47.5	41.4

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Govt. Medical College	23.12.2019	62.9	68.1	54.3	64.9	61.7	58.7
Sitabardi Police Station	23.12.2019	71.7	77.1	52.7	75.3	70.3	62.8
Shivaji Nagar	23.12.2019	66.5	69.2	51.8	69.0	66.7	60.6
Mahal	23.12.2019	63.5	67.8	51.5	65.8	63.9	53.4
Sadar	23.12.2019	68.8	73.6	56.6	71.8	67.4	63.0
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Govt. Medical College	23.12.2019	52.9	60.0	45.1	54.2	48.2	45.7
Sitabardi Police Station	23.12.2019	58.2	61.2	42.3	61.1	58.5	43.0
Shivaji Nagar	23.12.2019	55.0	60.7	40.1	59.7	47.0	40.2
Mahal	23.12.2019	54.7	60.2	43.8	59.5	49.2	44.7
Sadar	23.12.2019	50.3	54.4	42.1	53.4	49.5	42.8

Chart 4.7: Noise Levels in Nagpur



8. Kalyan

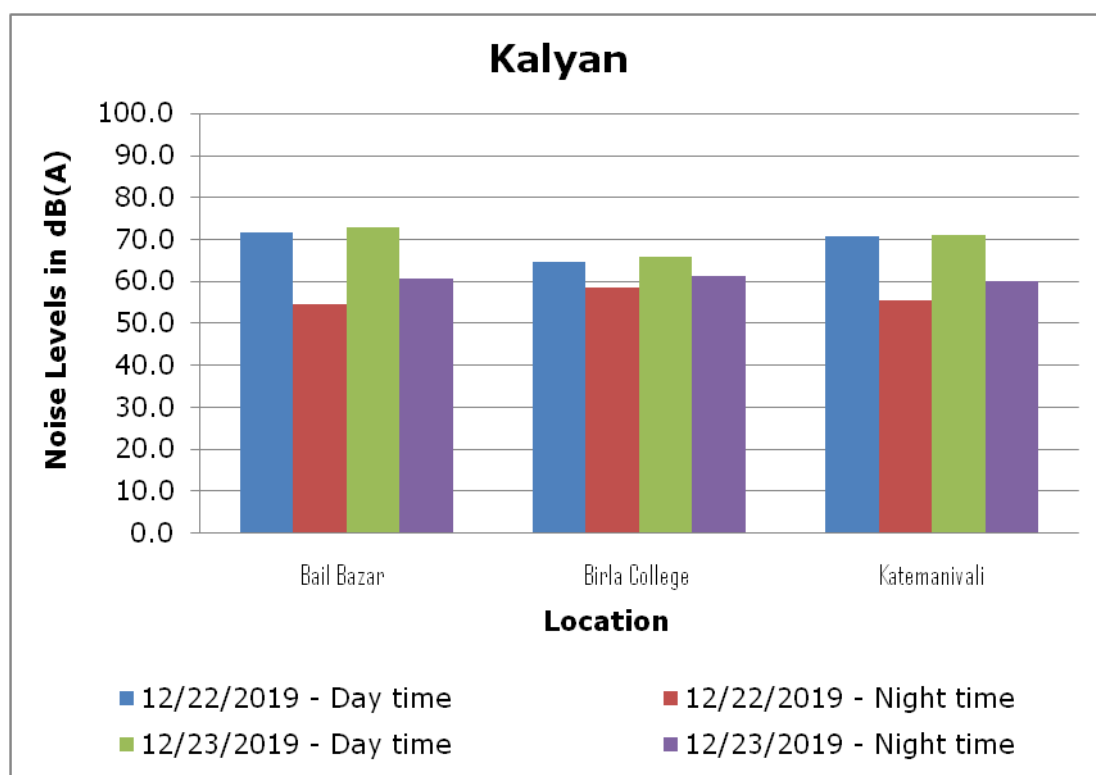
Three locations were monitored in Kalyan region. On 22nd and 23rd December the highest noise level both during day time was observed at Bail Bazar and during night time was observed at Birla Bazar.

Table 4.8: Noise Levels in Kalyan

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Katemanivali	22.12.2019	70.7	74.4	66.3	73.2	70.5	68.6
Birla College	22.12.2019	64.7	71.5	41.0	68.6	62.5	59.6
Bail Bazar	22.12.2019	71.8	77.7	62.7	77.1	67.6	62.8
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Katemanivali	22.12.2019	55.4	59.7	45.2	59.6	50.9	46.7
Birla College	22.12.2019	58.6	60.7	50.7	60.7	58.8	51.5
Bail Bazar	22.12.2019	54.5	59.6	45.8	58.6	51.5	46.6
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Katemanivali	23.12.2019	71.2	77.7	58.2	75.5	67.0	60.2
Birla College	23.12.2019	65.9	73.3	55.9	69.0	62.9	58.6
Bail Bazar	23.12.2019	73.0	79.2	66.3	76.6	70.5	67.6

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Katemanivali	23.12.2019	60.1	66.8	49.2	63.6	55.2	51.4
Birla College	23.12.2019	61.3	66.7	52.3	65.0	58.3	53.7
Bail Bazar	23.12.2019	60.8	67.5	48.9	64.4	56.3	51.0

Chart 4.8: Noise Levels in Kalyan



9. Amaravati

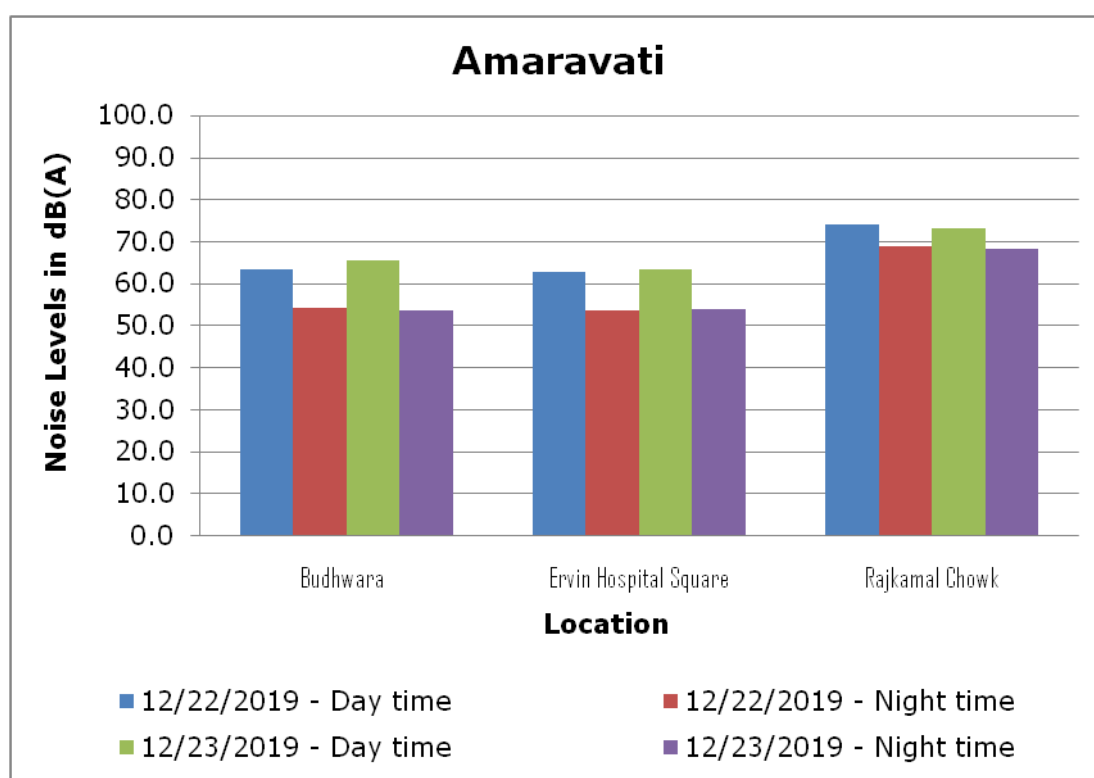
Three locations were monitored for Amravati region. On both the days of monitoring, the highest noise level both during day time and during night time was observed at Rajkamal Chowk.

Table 4.9: Noise Levels during in Amaravati

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Ervin Hospital Square	22.12.2019	62.9	65.2	57.6	64.4	63.0	61.3
Budhwara	22.12.2019	63.3	66.8	57.6	64.7	63.3	62.2
Rajkamal Chowk	22.12.2019	74.1	76.8	65.5	76.0	74.3	72.2
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Ervin Hospital Square	22.12.2019	53.7	58.4	45.2	57.7	49.2	46.5
Budhwara	22.12.2019	54.4	59.4	46.2	57.2	51.9	47.0
Rajkamal Chowk	22.12.2019	69.0	75.8	55.2	73.0	64.3	56.7
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Ervin Hospital Square	23.12.2019	63.4	66.0	55.5	65.3	63.8	59.1
Budhwara	23.12.2019	65.6	70.0	51.9	68.9	64.5	58.5
Rajkamal Chowk	23.12.2019	73.3	75.8	65.0	75.4	73.3	69.9

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Ervin Hospital Square	23.12.2019	54.0	59.3	47.6	57.1	49.9	47.7
Budhwara	23.12.2019	53.7	59.1	45.6	56.9	51.1	46.9
Rajkamal Chowk	23.12.2019	68.2	74.9	54.7	72.1	63.6	55.9

Chart 4.9: Noise Levels in Amaravati



10. Jalgaon

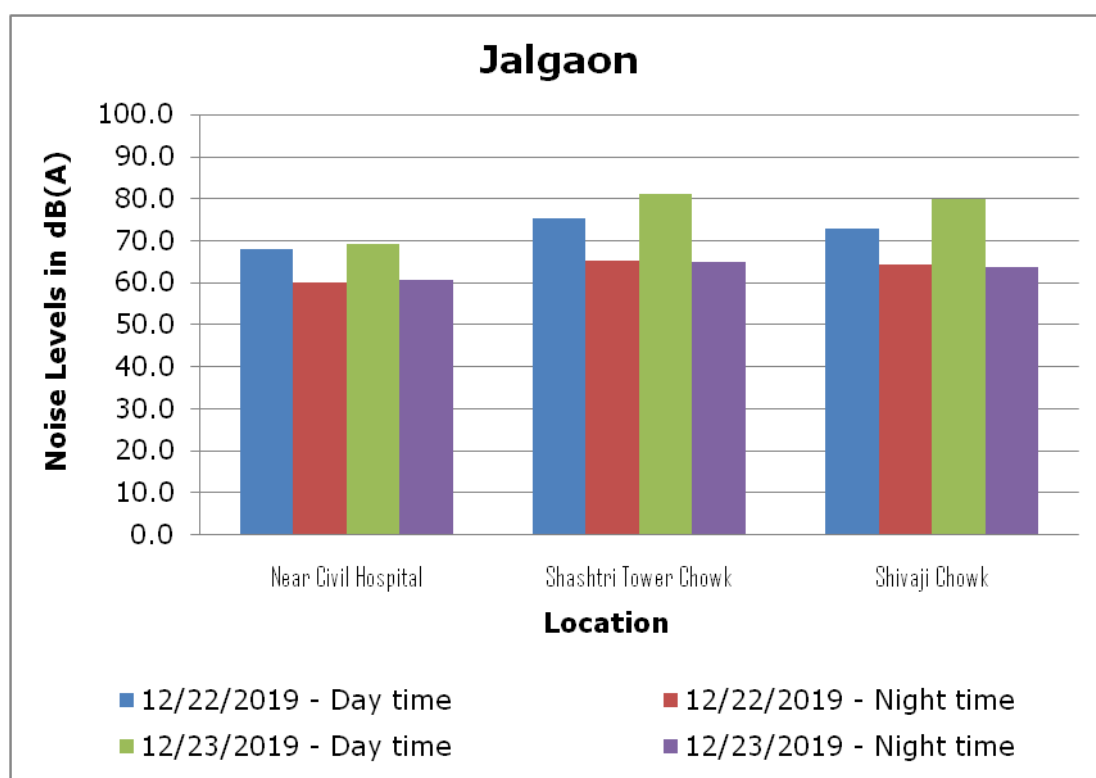
In Jalgaon region also three locations were monitored. On both the days of monitoring, the highest noise level both during day time and during night time was observed at Shashtri Tower Chowk.

Table 4.10: Noise Levels in Jalgaon

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Near Civil Hospital	22.12.2019	67.9	71.7	56.2	70.5	67.7	65.8
Shivaji Chowk	22.12.2019	72.8	77.1	64.2	76.5	72.4	67.4
Shashtri Tower Chowk	22.12.2019	75.3	80.2	64.3	79.3	74.7	71.4
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Near Civil Hospital	22.12.2019	60.0	65.0	53.8	63.9	55.4	54.5
Shivaji Chowk	22.12.2019	64.3	70.5	55.2	68.6	58.7	55.8
Shashtri Tower Chowk	22.12.2019	65.2	71.4	52.2	69.4	61.7	52.6
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Near Civil Hospital	23.12.2019	69.4	73.9	62.7	71.5	68.8	65.4
Shivaji Chowk	23.12.2019	79.8	82.7	64.8	82.3	80.1	72.7
Shashtri Tower Chowk	23.12.2019	81.1	84.8	69.2	83.4	81.2	73.8

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Near Civil Hospital	23.12.2019	60.6	66.1	48.0	63.5	57.4	51.3
Shivaji Chowk	23.12.2019	63.7	69.5	52.2	66.6	60.8	54.2
Shashtri Tower Chowk	23.12.2019	64.9	71.4	52.0	67.6	62.3	53.5

Chart 4.10: Noise Levels in Jalgaon



11. Kolhapur

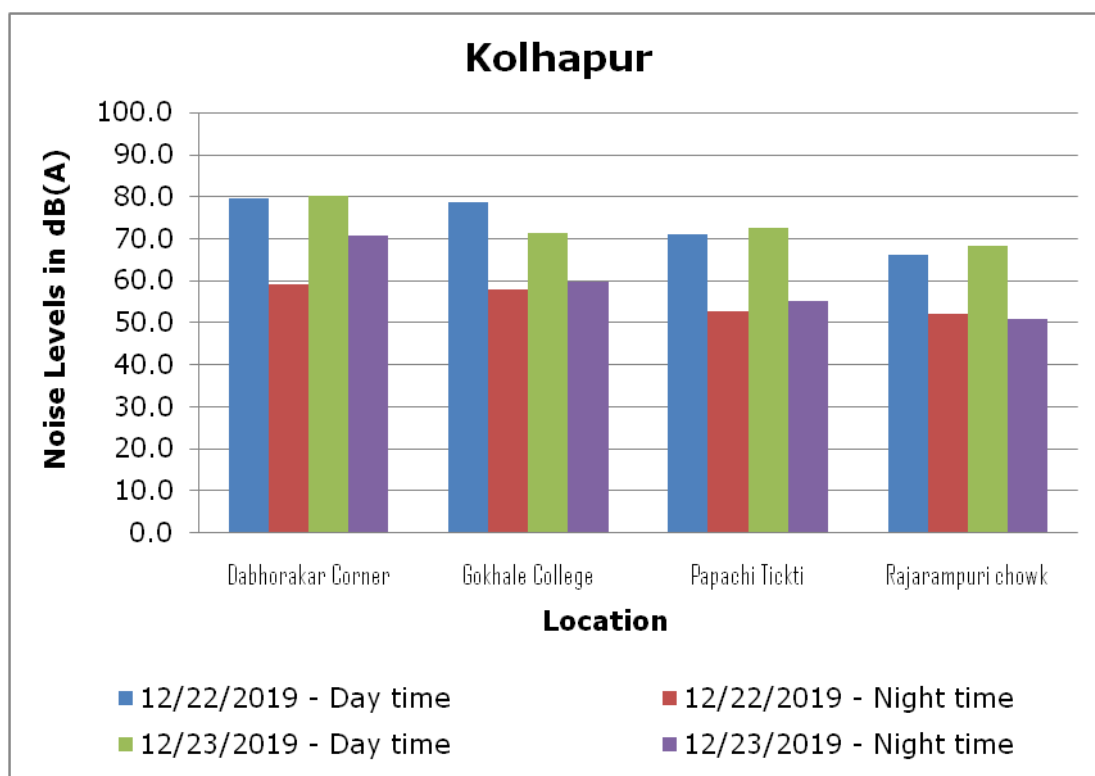
In Kolhapur region four locations were monitored. On both the days of monitoring, the highest noise level both during day time and during night time was observed at Dabhorakar Corner

Table 4.11: Noise Levels in Kolhapur

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Rajarampuri chowk	22.12.2019	66.2	73.3	49.3	69.2	65.0	58.0
Papachi Tickti	22.12.2019	71.0	75.6	50.4	74.5	70.9	62.4
Gokhale College	22.12.2019	78.7	85.4	44.9	83.8	74.1	65.7
Dabhorakar Corner	22.12.2019	79.7	83.5	63.2	83.1	79.8	74.2
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Rajarampuri chowk	22.12.2019	52.1	60.4	38.1	52.1	43.9	40.3
Papachi Tickti	22.12.2019	52.9	58.9	40.6	57.3	46.4	41.7
Gokhale College	22.12.2019	58.0	63.2	43.8	62.6	51.0	44.4
Dabhorakar Corner	22.12.2019	59.1	64.4	49.8	62.0	56.7	50.2

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Rajarampuri chowk	23.12.2019	68.4	76.5	54.3	71.2	65.8	57.8
Papachi Tickti	23.12.2019	72.7	76.8	56.7	76.3	71.8	66.7
Gokhale College	23.12.2019	71.2	77.9	52.6	74.0	69.3	58.4
Dabhorakar Corner	23.12.2019	80.3	84.3	73.2	82.7	79.8	74.7
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Rajarampuri chowk	23.12.2019	50.9	56.5	37.3	54.6	48.5	40.7
Papachi Tickti	23.12.2019	55.2	62.3	41.8	58.4	46.1	42.4
Gokhale College	23.12.2019	59.8	67.1	41.2	63.8	48.9	41.9
Dabhorakar Corner	23.12.2019	70.8	77.6	44.3	76.2	56.1	48.4

Chart 4.11: Noise Levels in Kolhapur



12. Sangli

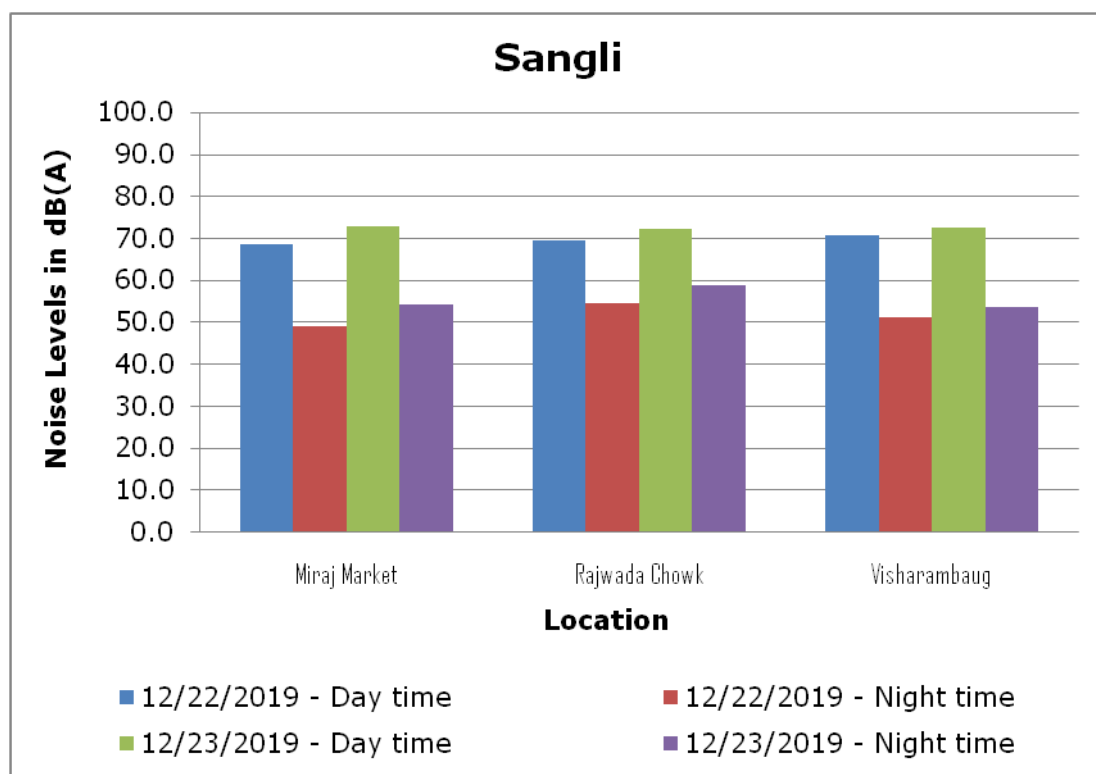
Out of the three locations monitored in Sangli region, On 22nd and 23rd December, the highest noise level during daytime was observed at Visharambaug with 70.6 dB(A) and at Miraj Market with 72.8 dB(A) respectively. On both day during night time the highest noise level was observed at Rajwada Chowk.

Table 4.12: Noise Levels in Sangli

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Rajwada Chowk	22.12.2019	69.7	73.2	56.0	72.5	69.3	66.6
Visharambaug	22.12.2019	70.6	74.6	57.2	73.8	70.6	62.3
Miraj Market	22.12.2019	68.7	74.2	56.8	71.7	68.5	61.5
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Rajwada Chowk	22.12.2019	54.4	61.8	43.5	56.6	46.5	44.7
Visharambaug	22.12.2019	51.1	54.9	43.2	54.5	48.5	44.8
Miraj Market	22.12.2019	49.1	54.2	43.9	52.6	46.1	44.7
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Rajwada Chowk	23.12.2019	72.2	74.8	61.2	74.4	71.9	65.6
Visharambaug	23.12.2019	72.6	76.0	60.1	75.0	72.8	64.8
Miraj Market	23.12.2019	72.8	75.3	64.0	74.4	72.8	67.9

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Rajwada Chowk	23.12.2019	58.9	66.9	44.3	62.0	48.2	44.8
Visharambaug	23.12.2019	53.8	58.7	43.8	57.5	50.2	44.2
Miraj Market	23.12.2019	54.2	58.9	44.1	58.6	50.0	44.2

Chart 4.12: Noise Levels in Sangli



13. Mira-Bhayander

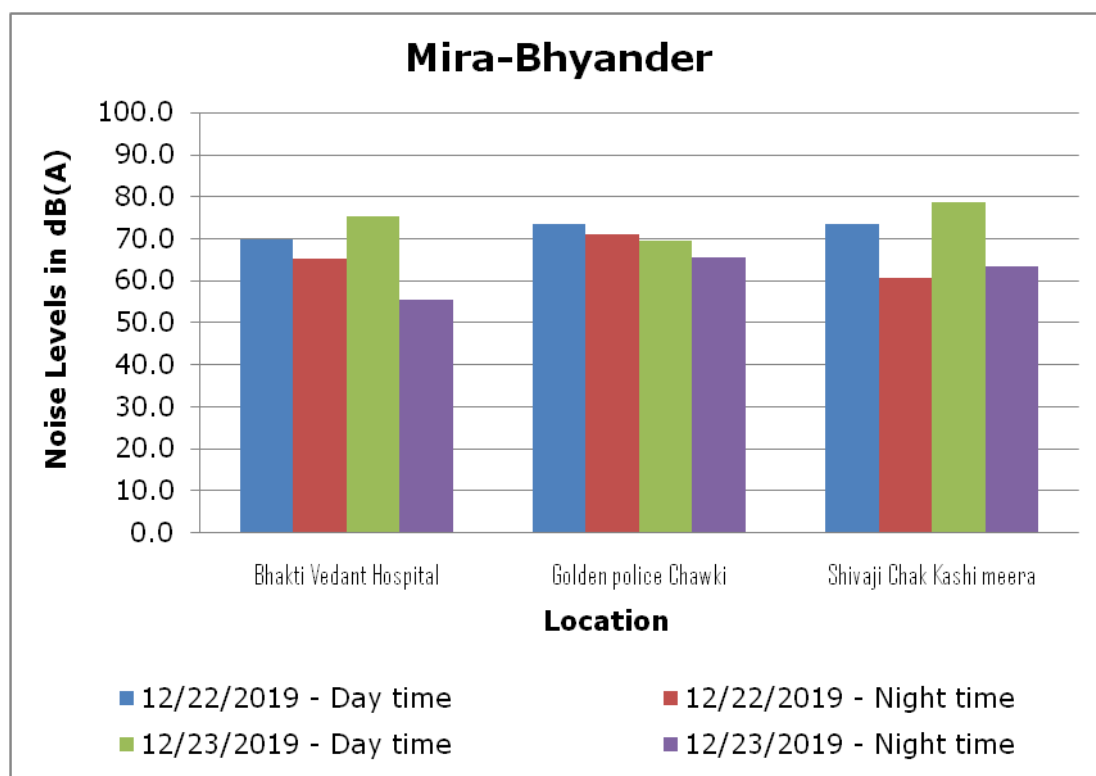
In Mira-Bhayander also three locations were monitored. On 22nd December the highest noise level both during day time and night time was observed at Golden police Chowki. On 23rd December the highest noise level was observed at Shivaji Chowk Kashi meera with 78.7 dB(A) and during night time the noise level was high at Golden police Chowki with 65.5 dB(A).

Table 4.13: Noise Levels (L_{eq}) in Mira-Bhayander

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L_{eq}	L_{max}	L_{min}	L_{10}	L_{50}	L_{90}
Bhakti Vedant Hospital	22.12.2019	69.8	73.2	60.4	72.6	69.1	67.1
Golden police Chowki	22.12.2019	73.6	77.9	60.4	76.4	73.7	66.6
Shivaji Chowk Kashi meera	22.12.2019	73.5	78.0	66.5	76.7	72.3	70.5
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L_{eq}	L_{max}	L_{min}	L_{10}	L_{50}	L_{90}
Bhakti Vedant Hospital	22.12.2019	65.3	71.2	56.3	67.4	63.8	57.5
Golden police Chowki	22.12.2019	71.0	78.6	59.5	74.2	63.7	60.0
Shivaji Chowk Kashi meera	22.12.2019	60.6	64.6	52.3	63.8	59.7	54.3

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Bhakti Vedant Hospital	23.12.2019	75.3	86.0	57.0	76.0	65.0	58.6
Golden police Chowki	23.12.2019	69.5	72.4	55.0	72.1	70.3	55.2
Shivaji Chowk Kashi meera	23.12.2019	78.7	86.1	65.2	83.0	73.6	65.9
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Bhakti Vedant Hospital	23.12.2019	55.6	59.3	51.3	58.6	54.0	52.0
Golden police Chowki	23.12.2019	65.5	71.3	52.3	69.9	60.4	54.4
Shivaji Chowk Kashi meera	23.12.2019	63.5	69.7	52.1	67.3	57.3	52.1

Chart 4.13: Noise Levels in Mira-Bhayander



14. Vasai-Virar

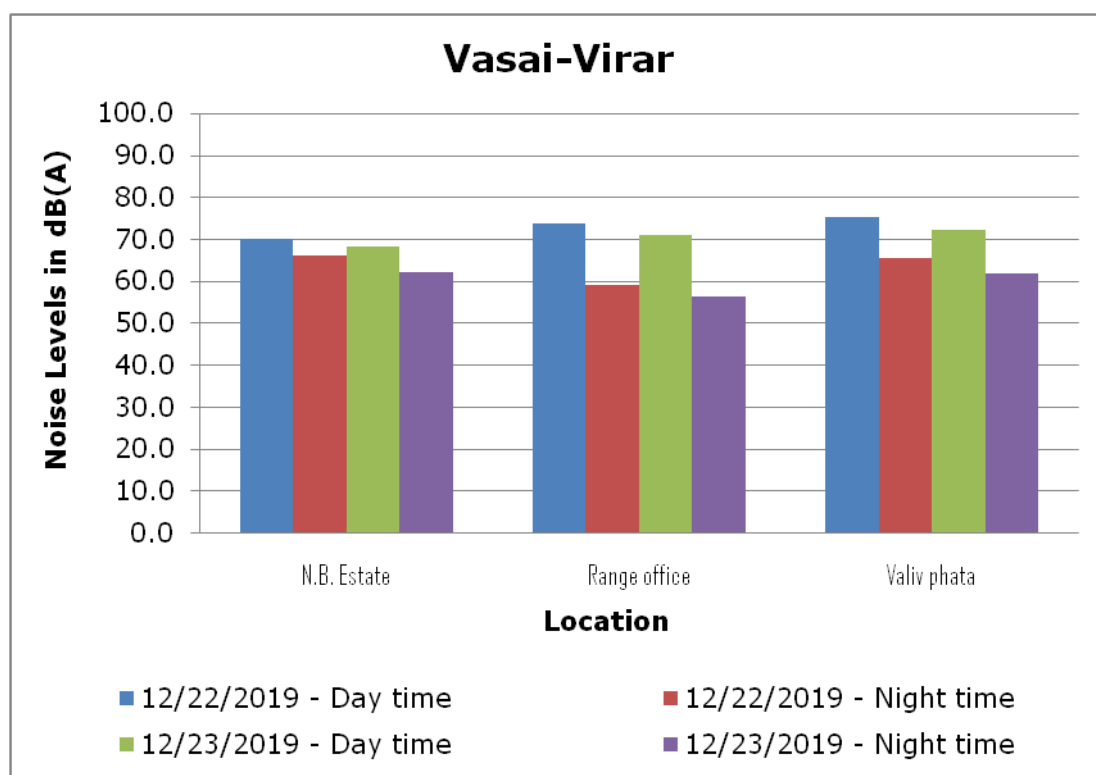
At Vasai-Virar also three locations were monitored for checking the noise level. During the day time the highest noise level was on both days was observed at Valiv phata and during the night time the highest noise level was on both days was observed at N.B. Estate.

Table 4.14: Noise Levels in Vasai-Virar

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Range office	22.12.2019	73.7	79.0	57.2	76.8	72.7	67.4
Valiv phata	22.12.2019	75.2	78.9	66.6	78.0	74.6	69.5
N.B. Estate	22.12.2019	70.2	76.5	51.6	74.0	66.4	64.1
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Range office	22.12.2019	59.1	65.6	52.3	61.4	55.6	52.9
Valiv phata	22.12.2019	65.4	73.2	56.3	65.6	60.5	57.3
N.B. Estate	22.12.2019	66.3	72.0	59.2	70.0	62.3	59.3
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Range office	23.12.2019	71.2	73.8	61.0	73.3	70.4	69.0
Valiv phata	23.12.2019	72.3	75.8	63.2	74.1	72.2	67.5
N.B. Estate	23.12.2019	68.4	74.1	56.7	73.2	64.1	59.0

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L_{eq}	L_{max}	L_{min}	L₁₀	L₅₀	L₉₀
Range office	23.12.2019	56.5	61.1	50.7	59.2	54.7	51.1
Valiv phata	23.12.2019	61.9	68.9	47.3	65.7	56.0	50.8
N.B. Estate	23.12.2019	62.3	69.2	50.3	66.4	55.3	51.8

Chart 4.14: Noise Levels in Vasai-Virar



15. Ulhasnagar

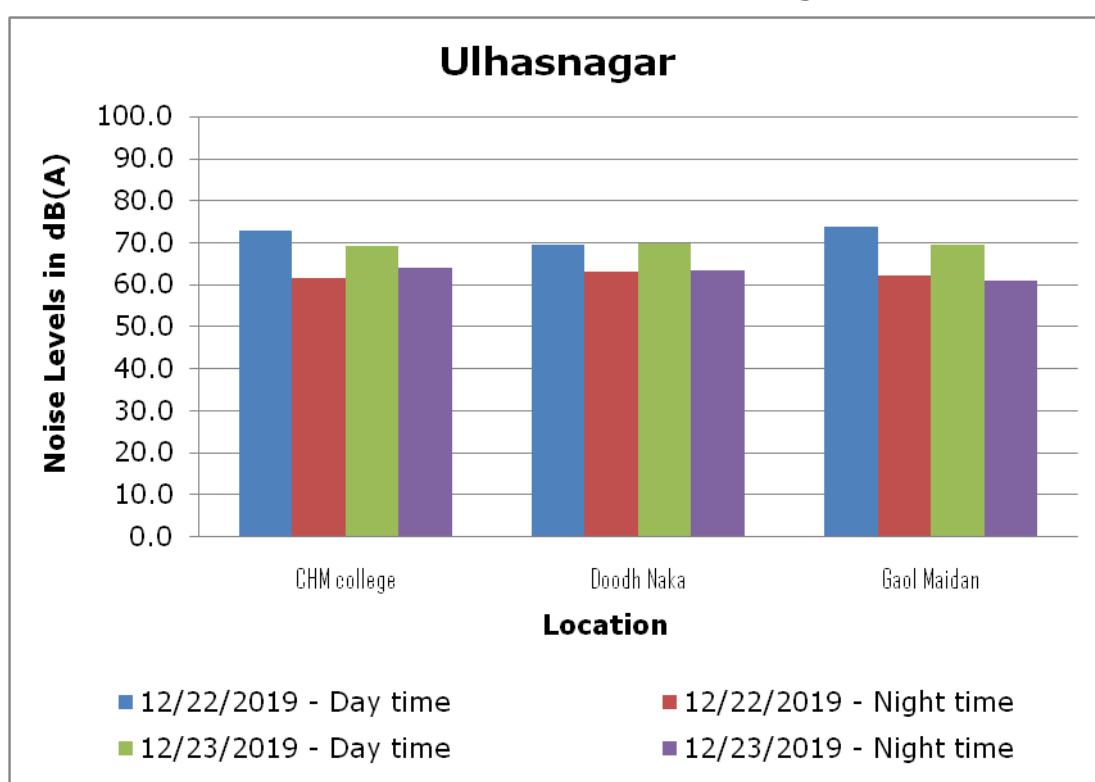
At Ulhasnagar three locations were monitored for noise levels. On 22nd December the highest noise level during day time and night time was observed at Gol Maidan with 73.8 dB(A) and at Doodh Naka with 63.2 dB(A) respectively. On 23rd December the highest noise level during day time was 69.8 dB(A) and was observed at Doodh Naka and the highest noise level during night time was observed at CHM college with 63.9 dB(A).

Table 4.15: Noise Levels in Ulhasnagar

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Gaol Maidan	22.12.2019	73.8	77.0	54.3	76.6	74.0	66.5
Doodh Naka	22.12.2019	69.5	75.4	60.2	71.5	68.7	63.1
CHM college	22.12.2019	73.0	77.9	56.6	76.6	72.5	66.0
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Gaol Maidan	22.12.2019	62.3	66.5	51.4	65.7	61.5	52.2
Doodh Naka	22.12.2019	63.2	68.6	48.5	67.8	58.7	53.5
CHM college	22.12.2019	61.5	66.4	52.3	65.1	58.9	53.7
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Gaol Maidan	23.12.2019	69.6	74.4	63.6	71.8	68.9	66.3
Doodh Naka	23.12.2019	69.8	75.3	62.4	72.5	68.5	64.2
CHM college	23.12.2019	69.1	72.5	64.1	71.5	68.9	65.7

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Gaol Maidan	23.12.2019	60.9	64.5	52.3	64.3	59.2	53.0
Doodh Naka	23.12.2019	63.4	68.3	52.3	66.8	60.0	54.4
CHM college	23.12.2019	63.9	68.3	54.9	66.9	62.8	56.8

Chart 4.15: Noise Levels in Ulhasnagar



16. Bhiwandi-Nizampur

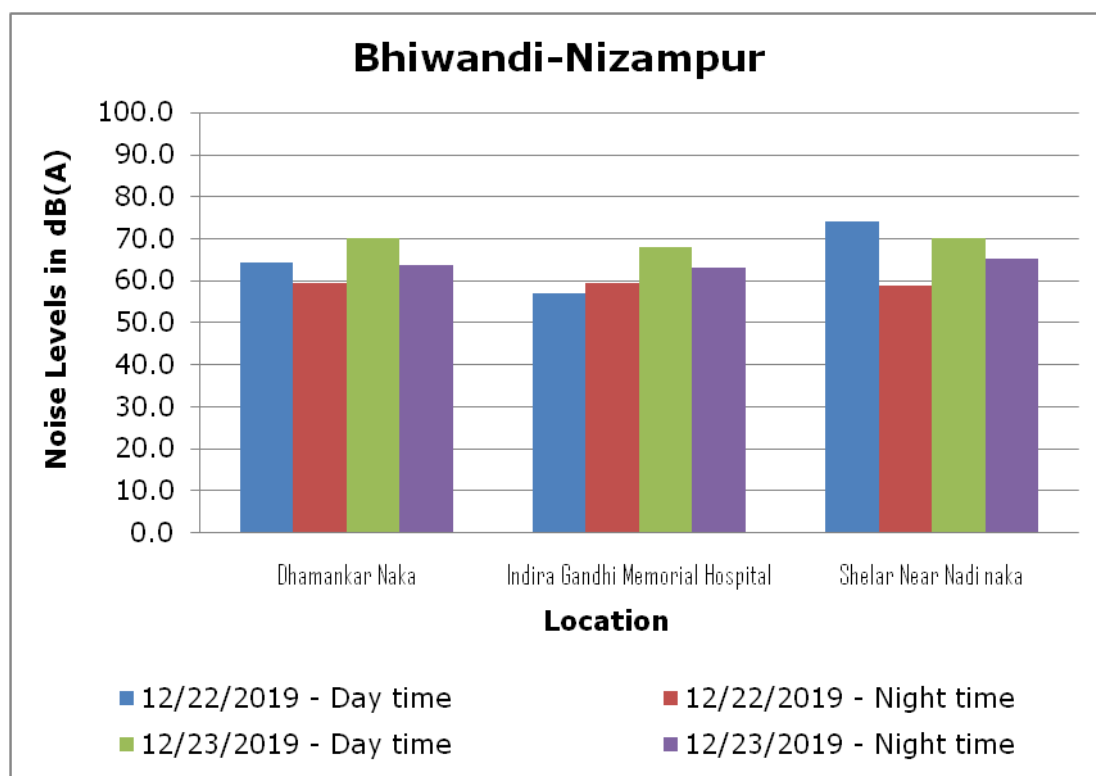
In Bhiwandi-Nizampur also 3 locations were monitored. On 22nd December, Shelar Near Nadi naka had the highest noise level during day time with 74 dB(A) and Dhamankar Naka had the highest noise level during night time with 59.5 dB(A). On 23rd December, Dhamankar Naka had the highest noise level during day time with 70.3 dB(A) and Shelar Near Nadi naka had the highest noise level during night time with 65.3 dB(A)

Table 4.16: Noise Levels in Bhiwandi-Nizampur

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Dhamankar Naka	22.12.2019	64.4	70.7	53.1	66.9	63.9	59.5
Indira Gandhi Memorial Hospital	22.12.2019	56.9	61.1	49.6	60.6	55.0	53.3
Shelar Near Nadi naka	22.12.2019	74.0	76.8	62.3	75.7	74.5	72.5
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Dhamankar Naka	22.12.2019	59.5	63.3	51.5	62.6	58.9	52.1
Indira Gandhi Memorial Hospital	22.12.2019	59.4	63.6	45.3	62.0	59.1	50.2
Shelar Near Nadi naka	22.12.2019	58.7	64.1	43.2	62.1	55.5	48.3

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Dhamankar Naka	23.12.2019	70.3	75.4	64.3	73.8	69.2	65.3
Indira Gandhi Memorial Hospital	23.12.2019	68.1	73.4	61.4	71.0	66.7	62.6
Shelar Near Nadi naka	23.12.2019	70.0	75.6	63.1	72.5	68.0	64.7
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Dhamankar Naka	23.12.2019	63.7	68.3	52.3	67.2	60.3	54.3
Indira Gandhi Memorial Hospital	23.12.2019	63.0	66.7	52.3	66.6	61.8	54.6
Shelar Near Nadi naka	23.12.2019	65.3	70.3	55.3	68.3	62.3	57.4

Chart 4.16: Noise Levels in Bhiwandi-Nizampur



17. Chandrapur

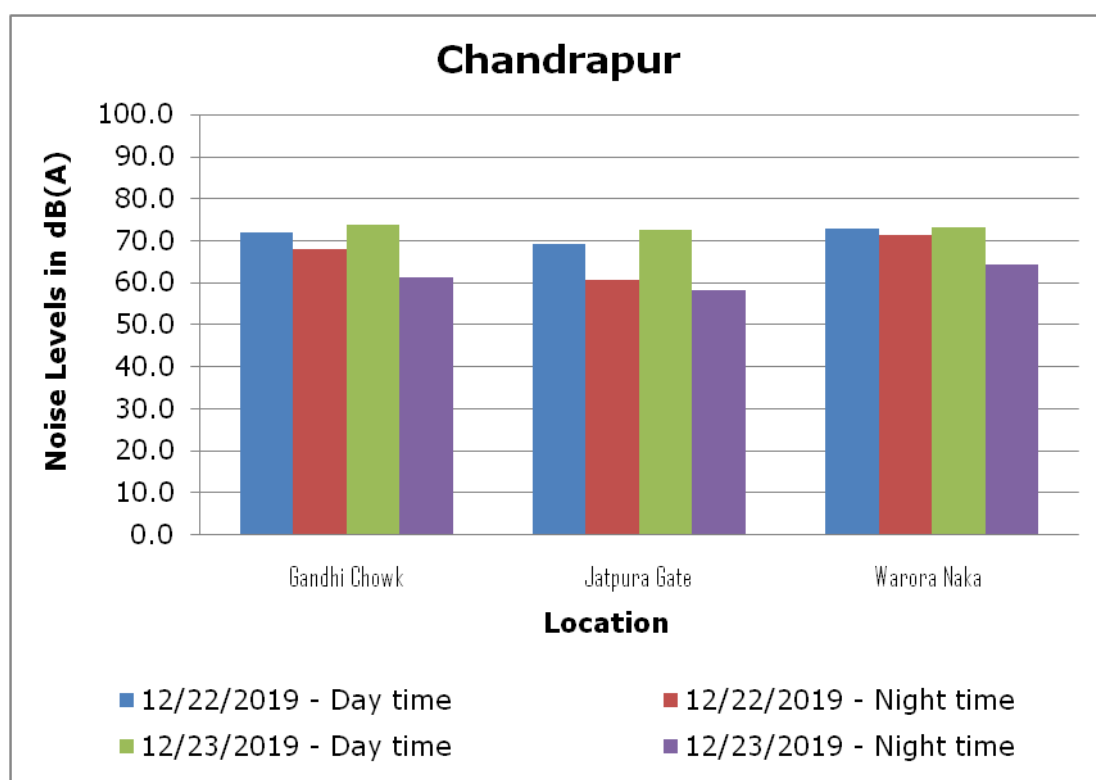
In Chandrapur region also three locations were monitored. On 22nd December, the highest noise level both during day time and night time was observed at Warora Naka with 72.8 dB(A) and 71.4 dB(A) respectively. On 23rd December, the highest noise level during day time and night time was observed at Gandhi Chowk with 73.8 dB(A) and at Warora Naka with 64.2 dB(A) respectively.

Table 4.17: Noise Levels (L_{eq}) in Chandrapur

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L_{eq}	L_{max}	L_{min}	L_{10}	L_{50}	L_{90}
Gandhi Chowk	22.12.2019	72.1	75.3	62.1	74.1	72.0	69.8
Jatpura Gate	22.12.2019	69.3	74.2	64.1	71.3	68.5	66.3
Warora Naka	22.12.2019	72.8	76.5	57.7	74.6	73.1	71.0
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L_{eq}	L_{max}	L_{min}	L_{10}	L_{50}	L_{90}
Gandhi Chowk	22.12.2019	67.9	75.4	48.7	71.1	59.6	54.7
Jatpura Gate	22.12.2019	60.7	65.3	50.7	64.6	56.6	52.5
Warora Naka	22.12.2019	71.4	78.7	54.9	75.2	63.6	58.0
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L_{eq}	L_{max}	L_{min}	L_{10}	L_{50}	L_{90}
Gandhi Chowk	23.12.2019	73.8	79.7	59.6	77.6	72.1	65.7
Jatpura Gate	23.12.2019	72.5	78.6	61.7	75.7	71.4	63.8
Warora Naka	23.12.2019	73.0	78.2	56.8	75.8	72.9	64.0

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Gandhi Chowk	23.12.2019	61.3	66.0	54.4	64.9	57.8	55.5
Jatpura Gate	23.12.2019	58.2	62.2	48.8	61.4	57.6	49.2
Warora Naka	23.12.2019	64.2	65.8	60.8	65.5	64.4	62.3

Chart 4.17: Noise Levels in Chandrapur



18. Nanded-Waghala

At Nanded-Waghala also 3 location was monitored. On 22nd December, the highest noise level during day time and night time was observed at Govt. Polytechnic College with 72.8 dB(A) and at Dr. Shankarao Chavan Govt. Medical College & Hospital with 45.9 dB(A) respectively..

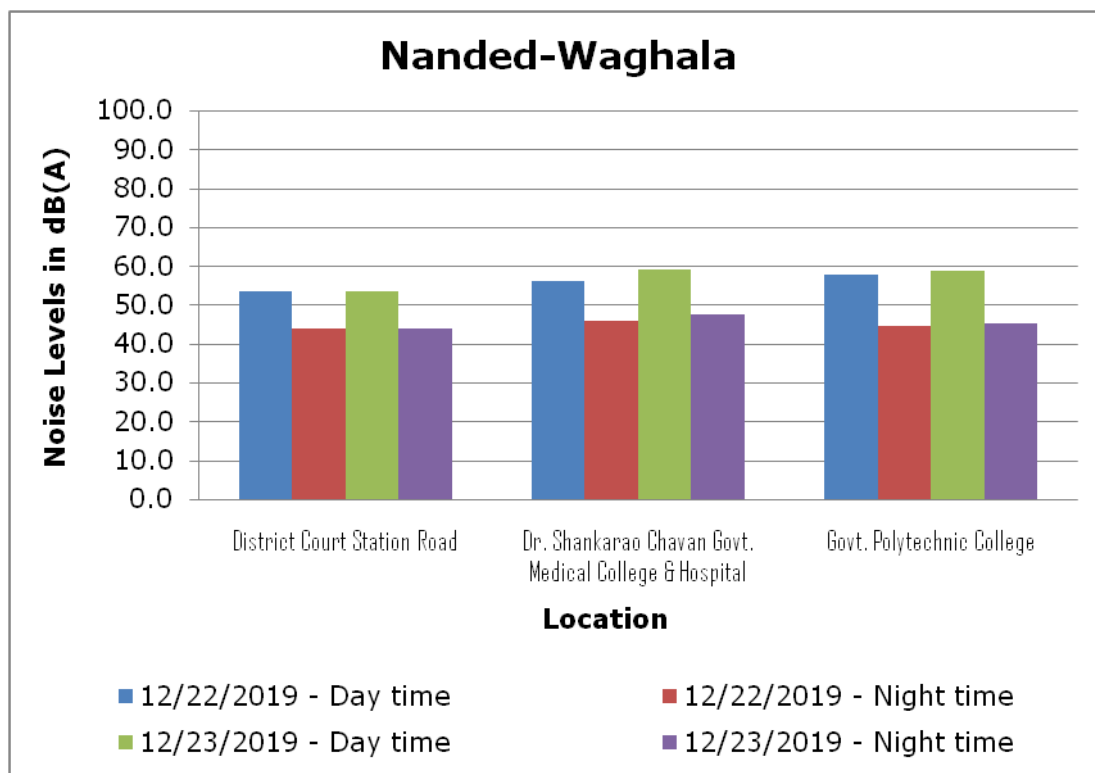
Table 4.18: Noise Levels in Nanded-Waghala

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Dr. Shankarao Chavan Govt. Medical College & Hospital Vishnupuri	22.12.2019	56.1	61.0	48.0	59.0	56.0	52.0
District Court Station Road	22.12.2019	53.5	57.0	47.0	56.0	53.3	50.5
Govt. Polytechnic College	22.12.2019	57.6	62.0	46.0	61.0	57.0	53.5

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Dr. Shankarao Chavan Govt. Medical College & Hospital Vishnupuri	22.12.2019	45.9	50.0	41.0	48.6	44.5	41.7
District Court Station Road	22.12.2019	44.0	47.0	40.0	46.3	42.5	40.7
Govt. Polytechnic College	22.12.2019	44.7	49.0	40.0	47.6	42.5	40.7

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Dr. Shankarao Chavan Govt. Medical College & Hospital Vishnupuri	23.12.2019	59.1	63.0	49.0	62.0	58.0	51.5
District Court Station Road	23.12.2019	53.4	58.0	48.0	55.5	52.5	49.5
Govt. Polytechnic College	23.12.2019	58.7	62.0	50.0	62.0	58.5	51.5
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Dr. Shankarao Chavan Govt. Medical College & Hospital Vishnupuri	23.12.2019	47.5	53.0	41.0	50.2	44.5	41.7
District Court Station Road	23.12.2019	44.0	48.0	40.0	45.9	42.5	40.7
Govt. Polytechnic College	23.12.2019	45.3	50.0	40.0	48.6	42.5	40.7

Chart 4.18: Noise Levels in Nanded-Waghala



19. Ahmednagar

On 22nd December, the highest noise level during day time was observed at Chitale Road with 67.5 dB(A) and during night time was observed at Old Bus Stand with 64.6 dB(A). On 23rd December, both Kotala Chowk and Chitale Road had highest noise level during day time with 71 dB(A) and during night time the highest noise level was observed at Kotala Chowk with 65.1 dB(A).

Table 4.19: Noise Levels in Ahmednagar

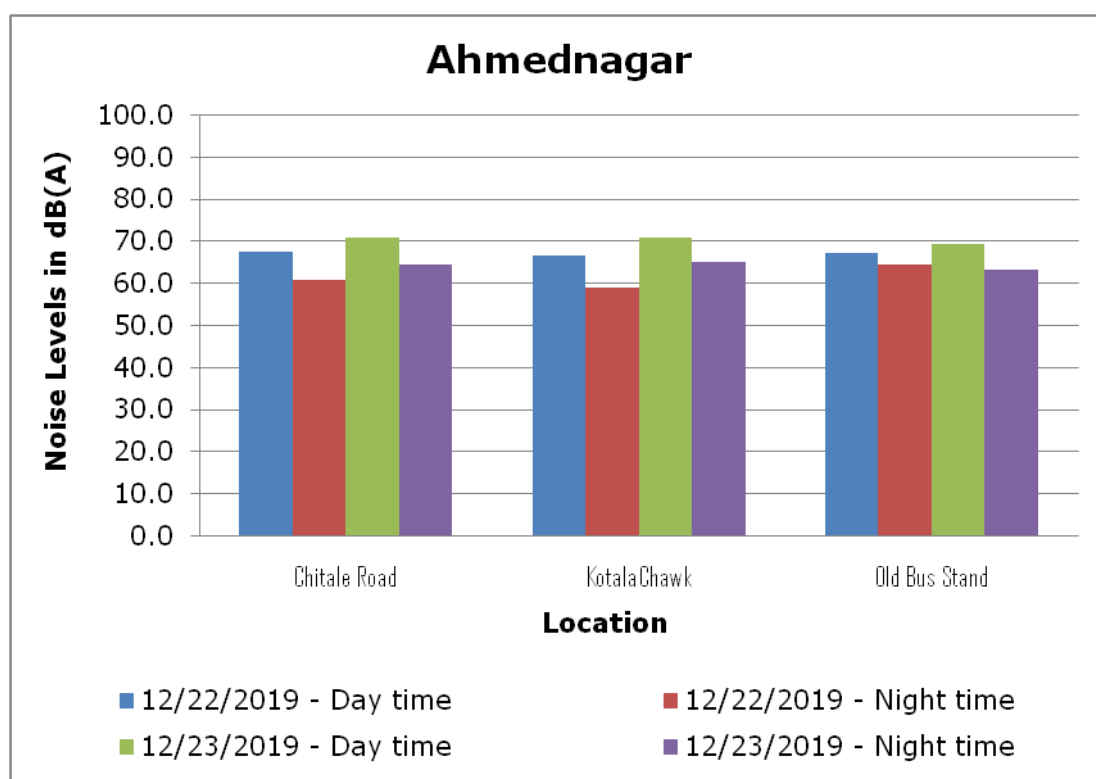
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Kotala Chowk	22.12.2019	66.6	69.1	62.4	69.0	65.9	63.0
Chitale Road	22.12.2019	67.5	69.6	64.2	68.9	67.5	65.8
Old Bus Stand	22.12.2019	67.1	69.4	62.8	69.1	66.9	65.7

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Kotala Chowk	22.12.2019	59.0	62.1	55.2	61.0	58.2	55.9
Chitale Road	22.12.2019	60.9	65.2	54.2	64.5	59.3	55.5
Old Bus Stand	22.12.2019	64.6	67.5	61.8	66.5	63.7	62.2

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Kotala Chowk	23.12.2019	75.4	64.2	71.0	73.4	70.5	66.2
Chitale Road	23.12.2019	74.9	65.3	71.0	73.0	70.5	67.0
Old Bus Stand	23.12.2019	73.1	61.2	69.5	72.1	69.1	65.2

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L_{eq}	L_{max}	L_{min}	L₁₀	L₅₀	L₉₀
Kotala Chowk	23.12.2019	68.9	61.8	65.1	66.9	64.1	62.0
Chitale Road	23.12.2019	66.5	62.7	64.6	66.2	64.1	63.4
Old Bus Stand	23.12.2019	66.3	58.4	63.4	66.0	62.6	59.4

Chart 4.19: Noise Levels in Ahmednagar



20. Dhule

At Dhule also three locations were monitored. On 22nd December, the highest noise level during day time was observed at Fulwala Chowk with 68.4 dB(A) and during night time the highest noise level was observed at Santoshi Mata Chowk with 62.6 dB(A). On 23rd December, the highest noise level both during day time and night time was observed at Santoshi Mata Chowk.

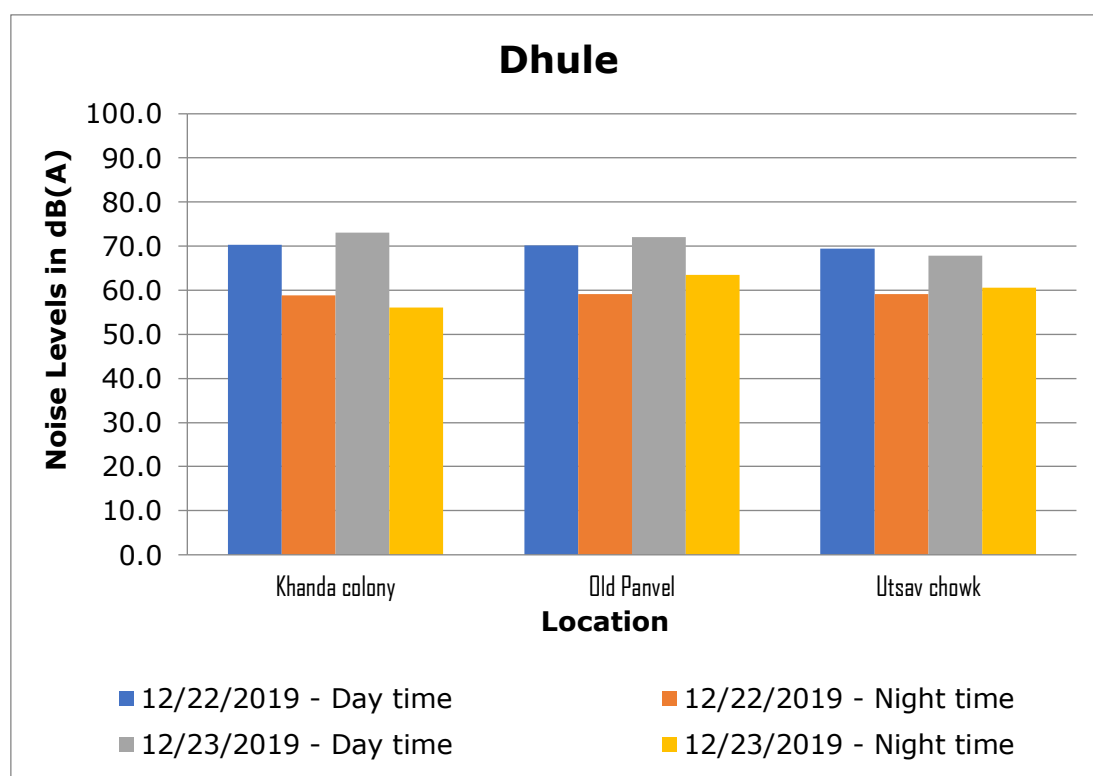
Table 4.20: Noise Levels in Dhule

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Agrasen Chowk	22.12.2019	67.3	69.9	60.1	69.7	67.4	65.0
Fulwala Chowk	22.12.2019	68.4	73.5	59.4	71.2	68.0	65.8
Santoshi Mata Chowk	22.12.2019	67.5	70.4	60.2	70.0	67.2	64.2
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Agrasen Chowk	22.12.2019	60.1	62.5	57.4	61.1	60.0	58.0
Fulwala Chowk	22.12.2019	62.5	65.8	57.8	65.5	61.0	58.5
Santoshi Mata Chowk	22.12.2019	62.6	66.1	58.0	65.0	61.4	58.6
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Agrasen Chowk	23.12.2019	74.5	65.2	71.6	73.9	71.2	67.0
Fulwala Chowk	23.12.2019	75.1	64.2	72.0	74.3	71.8	66.4

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Santoshi Mata Chowk	23.12.2019	75.4	63.7	72.1	74.2	71.8	67.4

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Agrasen Chowk	23.12.2019	67.4	62.8	64.5	66.3	63.3	62.9
Fulwala Chowk	23.12.2019	68.9	59.7	64.8	68.1	62.0	60.1
Santoshi Mata Chowk	23.12.2019	70.2	62.9	67.1	69.9	65.5	63.0

Chart 4.20: Noise Levels in Dhule



21. Malegaon

At Malegaon also three locations were monitored for the noise level. On 22nd December the highest noise level both during day time and at night time was observed at Mosampul. On 23rd December, the highest noise level during day time and during night time was observed at Malegaon Camp with 72.5 dB(A) and Mosampul with 68.1 dB(A) respectively.

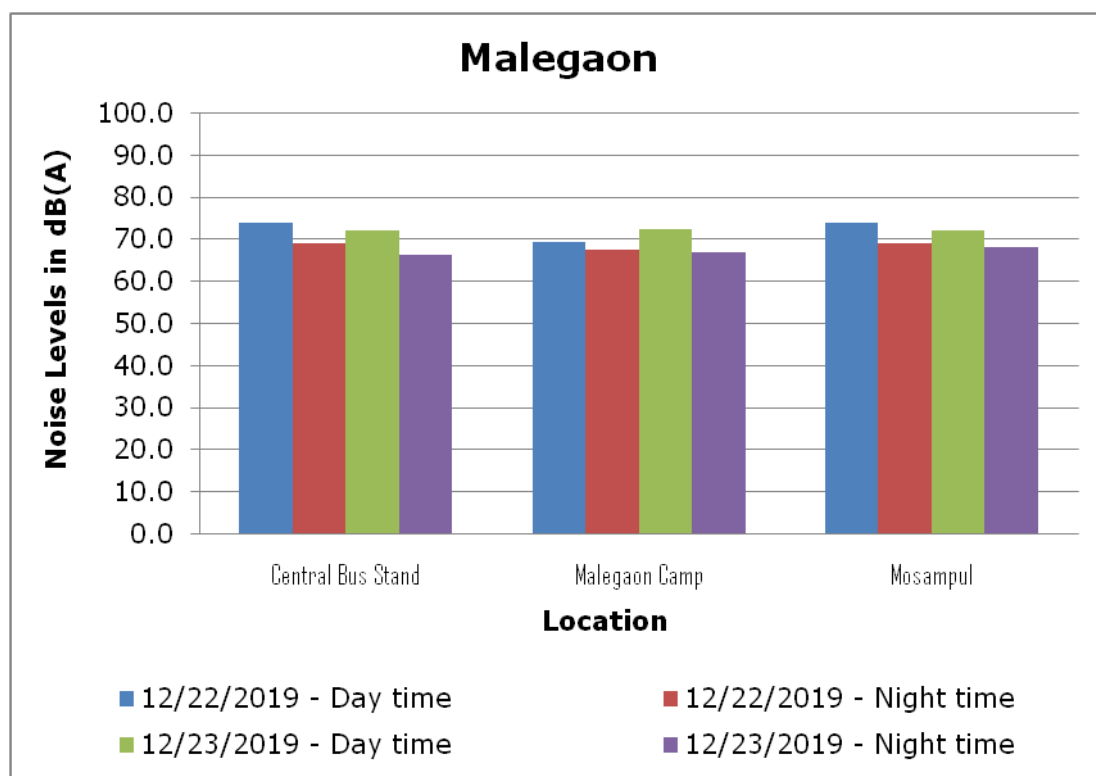
Table 4.21: Noise Levels in Malegaon

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Mosampul	22.12.2019	74.0	78.9	66.1	77.2	73.3	69.0
Central Bus Stand	22.12.2019	73.9	77.4	65.8	76.4	73.9	70.8
Malegaon Camp	22.12.2019	69.3	72.8	63.8	71.1	69.1	67.8
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Mosampul	22.12.2019	69.2	73.4	64.5	71.1	68.9	64.9
Central Bus Stand	22.12.2019	69.0	72.9	63.8	71.0	68.2	66.1
Malegaon Camp	22.12.2019	67.5	70.4	63.4	70.0	66.7	64.2
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Mosampul	23.12.2019	72.2	74.8	67.5	73.6	72.4	70.0
Central Bus Stand	23.12.2019	72.2	74.5	68.2	74.2	72.0	69.2

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Malegaon Camp	23.12.2019	72.5	76.5	66.2	74.8	71.6	68.0

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Mosampul	23.12.2019	68.1	70.2	65.8	69.7	67.8	66.1
Central Bus Stand	23.12.2019	66.3	69.5	63.4	68.0	65.7	63.9
Malegaon Camp	23.12.2019	66.9	71.2	62.3	69.6	65.6	63.1

Chart 4.21: Noise Levels in Malegaon



22. Pimpri-Chinchwad

In Pimpri-Chinchwad also three locations were monitored. On both the days the highest noise level both during day time and night time was observed at Dange Chowk.

Table 4.22: Noise Levels in Pimpri-Chinchwad

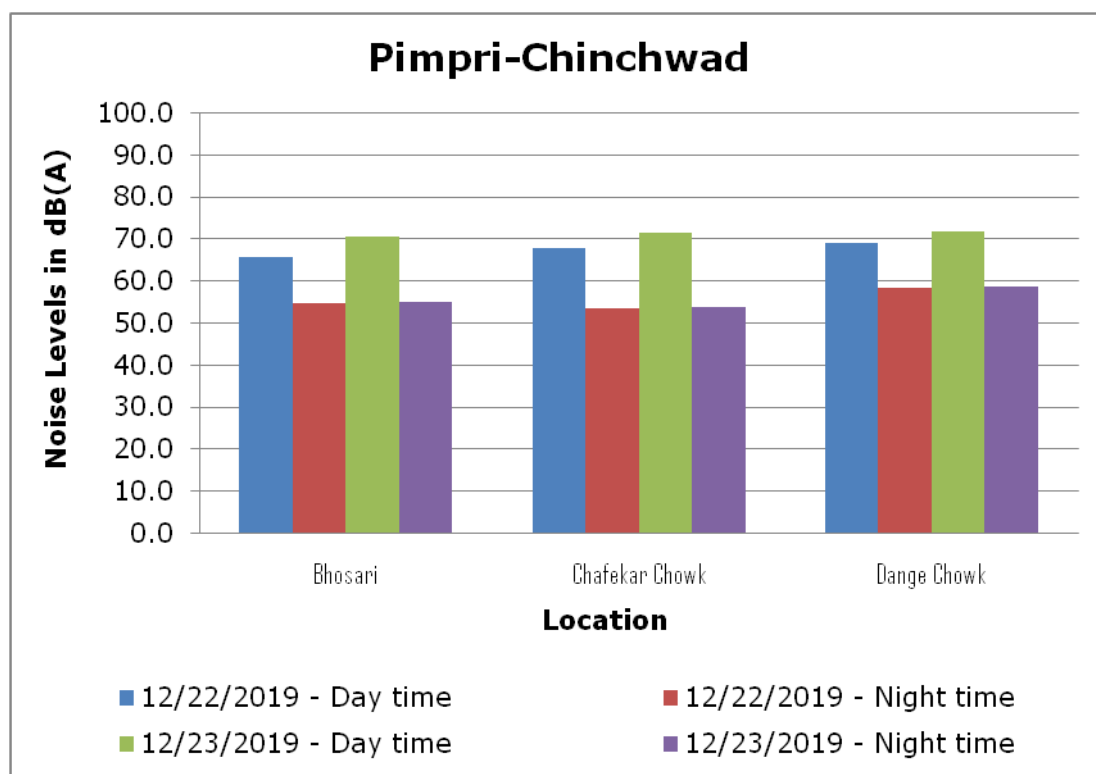
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Chafekar Chowk	22.12.2019	67.9	71.4	57.4	71.0	67.1	64.8
Dange Chowk	22.12.2019	69.1	73.5	59.3	71.7	68.8	64.8
Bhosari	22.12.2019	65.8	70.4	56.2	69.3	65.3	62.4

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Chafekar Chowk	22.12.2019	53.5	59.8	42.9	58.3	46.7	43.3
Dange Chowk	22.12.2019	58.4	64.2	43.1	63.6	49.9	43.9
Bhosari	22.12.2019	54.7	60.1	41.6	59.9	47.3	42.5

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Chafekar Chowk	23.12.2019	71.6	76.4	59.3	74.3	71.1	61.1
Dange Chowk	23.12.2019	71.8	75.9	61.2	74.6	71.4	64.0
Bhosari	23.12.2019	70.6	74.9	59.7	73.4	70.7	61.3

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Chafekar Chowk	23.12.2019	53.7	60.1	43.5	58.1	47.9	43.9
Dange Chowk	23.12.2019	58.7	65.3	44.1	63.5	50.3	44.7
Bhosari	23.12.2019	55.0	60.2	42.3	59.9	48.7	43.3

Chart 4.22: Noise Levels in Pimpri-Chinchwad



23. Parbhani

The highest noise level in Parbhani on 22nd December the highest noise level both during day time and night time was observed near Civil hospital. On 23rd December the highest noise level during day time was observed near Civil hospital with 59.3 dB(A) and during night time was observed at Shaniwar Bazar with 46.2 dB(A).

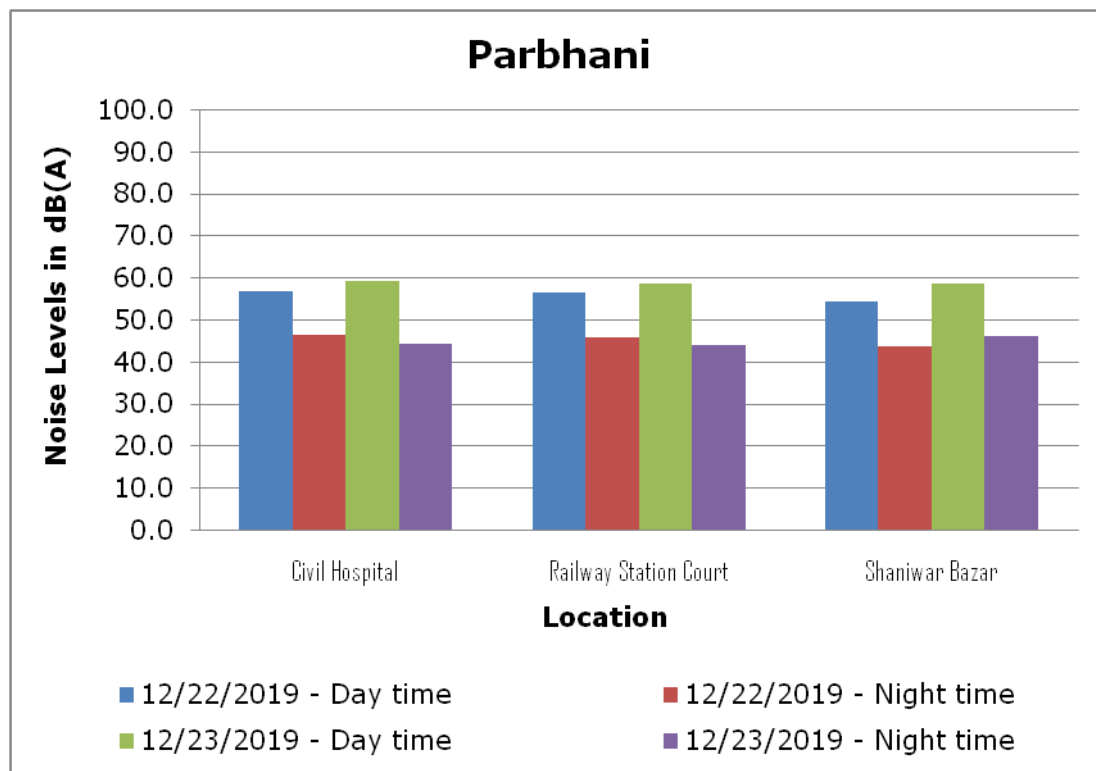
Table 4.23: Noise Levels in Parbhani

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Shaniwar Bazar	22.12.2019	54.5	61.0	45.0	56.5	53.5	51.5
Railway Station Court	22.12.2019	56.7	62.0	49.0	60.5	55.5	53.5
Civil Hospital	22.12.2019	57.0	61.0	47.0	60.0	56.5	52.0
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Shaniwar Bazar	22.12.2019	43.9	49.0	37.0	46.2	42.0	37.7
Railway Station Court	22.12.2019	45.7	50.0	40.0	48.6	42.5	40.7
Civil Hospital	22.12.2019	46.5	52.0	41.0	49.2	43.0	41.7
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Shaniwar Bazar	23.12.2019	58.7	62.0	48.0	61.5	58.5	51.5
Railway Station Court	23.12.2019	58.8	62.0	51.0	61.5	58.5	51.0

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Civil Hospital	23.12.2019	59.3	63.0	49.0	62.0	58.5	52.0

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Shaniwar Bazar	23.12.2019	46.2	51.0	40.0	49.6	42.5	41.4
Railway Station Court	23.12.2019	44.2	48.0	40.0	46.6	42.5	40.7
Civil Hospital	23.12.2019	44.2	49.0	40.0	46.9	42.0	40.7

Chart 4.23: Noise Levels in Parbhani



24. Latur

At latur also 3 locations was monitored. On 22nd December the highest noise level during day time was observed at Civil Hospital with 57.5 dB(A) and during night time the highest noise level was observed at Shahu college with 45.8 dB(A). On 23rd December the highest noise level both during day time and night time was observed at Shahu College.

Table 4.24: Noise Levels in Latur

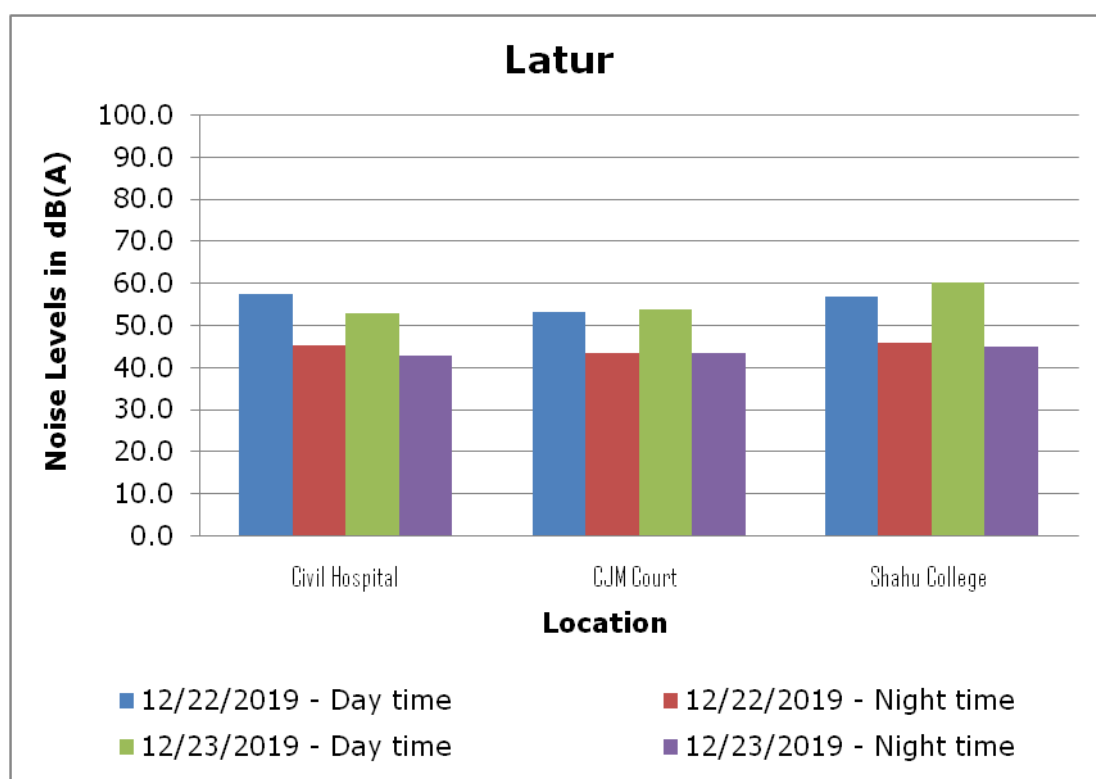
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Shahu College	22.12.2019	56.9	61.0	48.0	60.5	57.0	52.5
Civil Hospital	22.12.2019	57.5	61.0	49.0	60.0	57.7	53.5
CJM Court	22.12.2019	53.1	57.0	48.0	56.0	52.5	51.0

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Shahu College	22.12.2019	45.8	51.0	40.0	49.6	42.0	40.0
Civil Hospital	22.12.2019	45.1	50.0	40.0	47.9	42.5	40.7
CJM Court	22.12.2019	43.3	48.0	38.0	45.9	41.5	38.7

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Shahu College	23.12.2019	60.1	64.0	50.0	62.5	60.0	51.5
Civil Hospital	23.12.2019	53.0	57.0	47.0	55.5	52.0	49.5
CJM Court	23.12.2019	53.8	57.0	49.0	56.0	53.5	49.5

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Shahu College	23.12.2019	45.0	50.0	40.0	47.9	42.5	40.0
Civil Hospital	23.12.2019	42.8	48.0	38.0	45.2	41.0	38.7
CJM Court	23.12.2019	43.4	48.0	39.0	45.9	41.5	39.7

Chart 4.24: Noise Levels in Latur



25. Akola

In Akola also three location was monitored. The highest noise level in Akola region on 22nd December the highest noise level both during day time and night time was observed at Civil line Chowk and on 23rd December the highest noise level both during day time and night time was observed at City Kotawali Chowk.

Table 4.25: Noise Levels in Akola

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Collector Office	22.12.2019	68.9	74.4	52.2	71.7	68.0	64.4
Civil line Chowk	22.12.2019	71.2	74.7	56.8	73.2	71.4	68.2
City Kotawali Chowk	22.12.2019	69.9	72.9	65.2	72.0	69.9	68.2

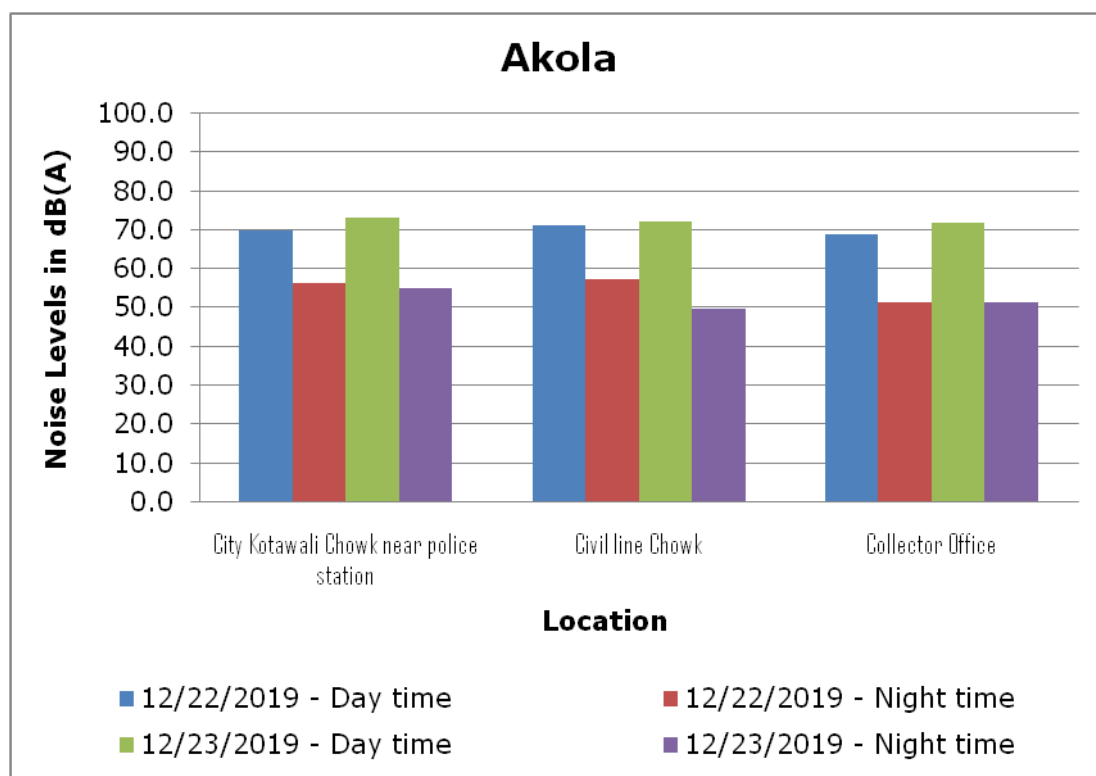
Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Collector Office	22.12.2019	51.4	57.9	43.6	54.2	47.4	43.7
Civil line Chowk	22.12.2019	57.4	64.5	44.6	60.9	51.2	44.7
City Kotawali Chowk	22.12.2019	56.4	63.8	43.6	59.0	51.2	44.3

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Collector Office	23.12.2019	71.7	76.2	53.3	74.0	71.4	61.1
Civil line Chowk	23.12.2019	72.2	73.8	65.6	73.6	72.7	67.5

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
City Kotawali Chowk	23.12.2019	73.1	75.1	66.9	74.7	73.2	69.9

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Collector Office	23.12.2019	51.4	55.6	43.5	54.8	48.7	44.1
Civil line Chowk	23.12.2019	49.8	55.0	45.1	53.4	46.0	45.3
City Kotawali Chowk	23.12.2019	54.9	61.1	45.9	58.7	49.6	46.1

Chart 4.25: Noise Levels in Akola



26. Solapur

In Solapur, three location was monitored for noise level. On 22nd December, the highest noise level during day time was observed at Balives and Ashok Chowk with 73.8 dB(A) and during night time was observed at Ashok chowk with 63 dB(A). On 23rd December, the highest noise level during day time was observed at Balives 73.6 dB(A) with and night time was observed at Ashok chowk with 60.8 dB(A).

Table 4.26: Noise Levels in Solapur

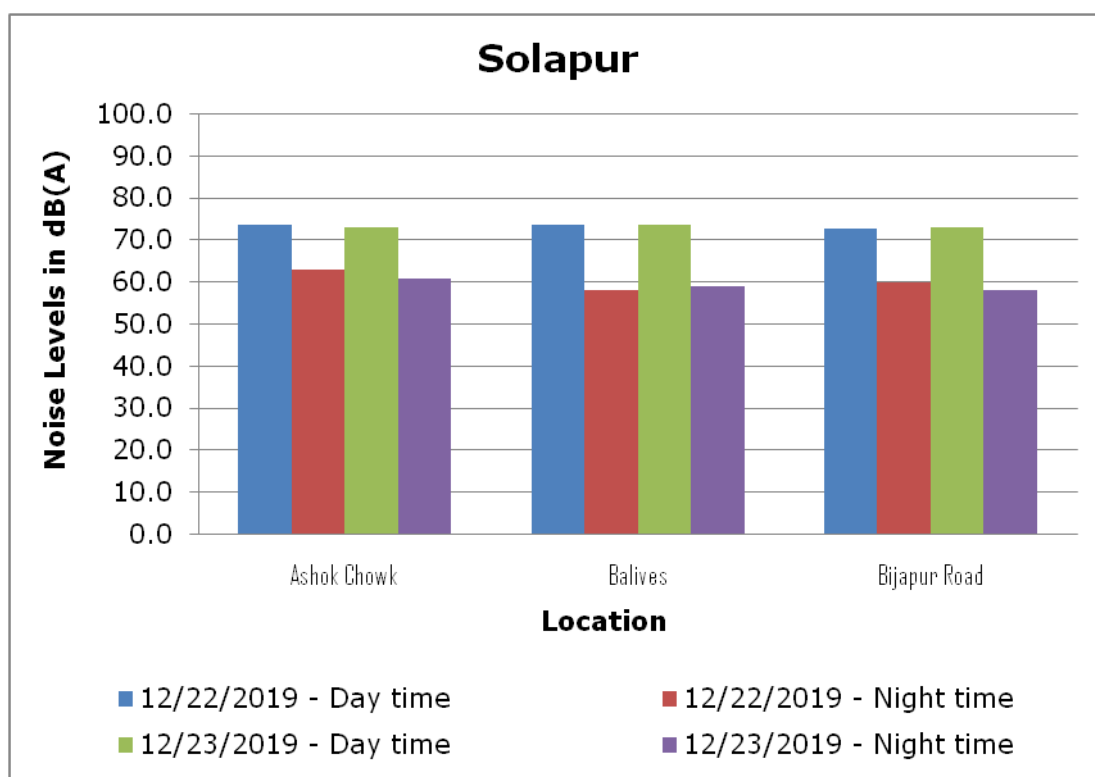
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Balives	22.12.2019	73.8	78.6	60.4	77.2	73.6	63.6
Bijapur Road	22.12.2019	72.7	76.4	61.2	74.7	73.1	66.6
Ashok Chowk	22.12.2019	73.8	80.4	58.4	76.5	73.3	61.3

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Balives	22.12.2019	58.1	64.5	44.7	62.2	54.0	46.5
Bijapur Road	22.12.2019	60.0	67.2	40.9	64.3	51.1	46.4
Ashok Chowk	22.12.2019	63.0	70.1	43.0	66.0	55.3	43.9

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Balives	23.12.2019	73.6	79.6	59.4	76.9	71.3	64.1
Bijapur Road	23.12.2019	72.9	77.3	59.8	76.2	72.2	65.6
Ashok Chowk	23.12.2019	73.1	78.3	63.5	75.7	71.8	65.5

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Balives	23.12.2019	59.0	65.3	43.3	63.3	54.3	46.0
Bijapur Road	23.12.2019	58.1	64.5	43.5	62.8	52.4	45.2
Ashok Chowk	23.12.2019	60.8	68.4	44.1	62.3	53.8	44.8

Chart 4.26: Noise Levels in Solapur



27. Panvel

Three locations were monitored from Panvel Municipal Corporation. The highest noise level during day time on both days was observed at Khanda Colony. During night time the highest noise level on 22nd December was observed at Ustav Chowk with 59.1 dB(A) and on 23rd December the highest noise level was observed near Old Panvel, Panvel corporation building with 63.4 dB(A).

Table 4.27: Noise Levels in Panvel

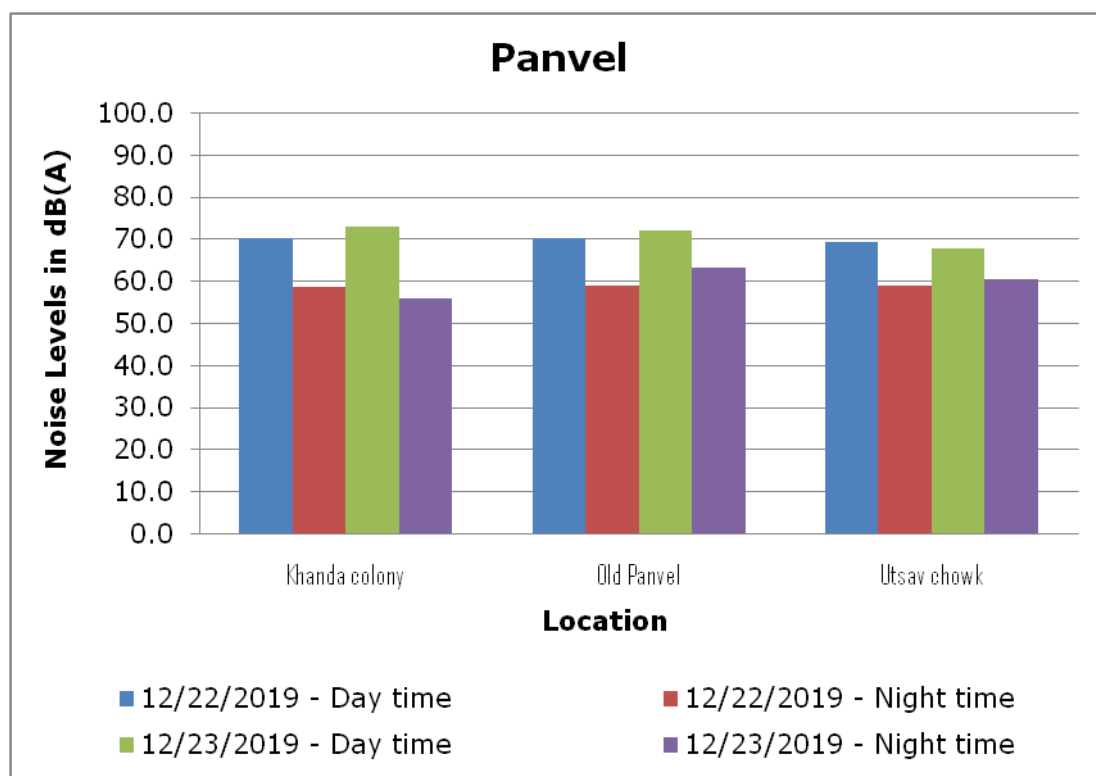
Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Old Panvel, Panvel corporation building	22.12.2019	70.2	75.8	61.4	74.3	68.1	63.8
Khanda colony	22.12.2019	70.3	73.9	65.8	72.7	70.0	67.5
Utsav chowk, Kharghar	22.12.2019	69.4	73.8	60.3	71.9	69.4	63.3

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Old Panvel, Panvel corporation building	22.12.2019	59.0	62.1	52.3	61.5	58.7	54.0
Khanda colony	22.12.2019	58.8	61.2	53.2	61.1	58.5	54.0
Utsav chowk, Kharghar	22.12.2019	59.1	63.3	52.6	62.2	58.1	52.7

Location	Date	Day Time (6AM-10PM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Old Panvel, Panvel corporation building	23.12.2019	72.1	74.5	57.2	74.1	72.2	67.4
Khanda colony	23.12.2019	73.0	75.7	62.3	75.5	72.8	67.6
Utsav chowk, Kharghar	23.12.2019	67.9	73.6	51.6	70.6	65.9	60.8

Location	Date	Night Time (10PM-6AM) values in dB(A)					
		L _{eq}	L _{max}	L _{min}	L ₁₀	L ₅₀	L ₉₀
Old Panvel, Panvel corporation building	23.12.2019	63.4	69.2	50.2	67.0	60.1	53.8
Khanda colony	23.12.2019	56.0	62.8	44.3	59.0	49.5	44.6
Utsav chowk, Kharghar	23.12.2019	60.5	66.1	47.6	64.6	56.2	51.1

Chart 4.27: Noise Levels in Panvel



Conclusion

Maharashtra Pollution Control Board have carried out Noise monitoring at 104 locations from 27 Municipal Corporation of Maharashtra for 2 days period including one working and one non-working day i.e. on 22nd (Non-working day) and 23rd (Working day) December 2019 for 24 hours for each location which comprise of residential, commercial and silence zone.

The study reveals comparing the laid down noise norms for respective zones (Industrial, Commercial, Residential or Silence) the noise levels are exceeded at many locations. The ever-increasing use of automobiles is a major cause of this pollution. People honk unnecessarily in the traffic and listen to loud music on the way which creates high levels of noise.

Noise pollution is a kind of pollution that should be controlled effectively to maintain a peaceful and healthily balanced life. This control will also help in the balancing of our nature as well. Limited use of machines like vehicles, horns in them, etc. to an extent will obviously help in the reduction of noise pollution. Roadway noises and other forms of urban contributors to noise pollution can be controlled through proper urban planning with the design of our roads better. We can reduce roadway noise through using noise barriers, limiting the speed of vehicles, changing the surface texture of roadways, limiting the movement of vehicles that are heavy, the employment of traffic signals and controls that can help in the smooth flow of vehicles to reduce acceleration and braking, and design of tire. We must also follow the set noise levels limits by the Government.

There is no doubt that some volume of noise is necessary for our life. But, it is also a truth that we due to our own misuse noise pollution as on date is a growing environmental concern which needs immediate remedies in place. People have been found suffering from ear ailments and the ecology as well has been affected. It is high time that we implement the preventive measures available to us in order to reduce noise pollution. Or else, tomorrow the future generations may suffer from permanent hearing related diseases and the ecology shall be affected beyond repair.

Definitions

A-Weighting

"A-weighting" is the frequency weighting characteristic as specified in IEC 123 or IEC 179 and intended to approximate the relative sensitivity of the normal human ear to different frequencies (pitches) of sound.

A-weighted Sound Pressure Level

The "A-weighted sound pressure level" is the sound pressure level modified by application of the A-weighting. It is measured in dBA, A-weighted, and denoted as dBA.

Decibel

The "decibel" is a dimensionless measure of sound level or sound pressure level; see sound pressure level.

Equivalent Sound Level

The "equivalent sound level" sometimes denoted L_{eq} , is the value of the constant sound level which would result in exposure to the same total A-weighted energy as would the specified time-varying sound, if the constant sound level persisted over an equal time interval. It is measured in dBA.

Fast Response

"Fast response" is a dynamic characteristic setting of a sound levelmeter meeting the applicable specifications.

Percentile Sound Level

The "x percentile sound level", designated L_x , is the sound level exceeded x percent of a specified time period, It is measured in dBA.

Sound

"Sound" is an oscillation in pressure, stress, particle displacement or particle velocity, in a medium with internal forces (e.g. elastic, viscous), or the superposition of such propagated oscillations, which may cause an auditory sensation.

Sound Level

"Sound level" is the A-weighted sound pressure level.

Sound Level Meter

A "sound level meter" is an instrument which is sensitive to and calibrated for the measurement of sound.

Sound Pressure Level

The "sound pressure level" is twenty times the logarithm to the base 10 of the ratio of the effective pressure (p) of a sound to the reference pressure (Pr) of 20 μ Pa. Thus the sound pressure level in dB = $20 \log_{10} P/Pr$.

ANNEXURE I

Annexure I - Detailed list of locations

Sr. No.	City	Location name (details)
1.	Mumbai	Backside of High Court
		Mumbadevi Temple
		Borivali National Park
		Antop Hill
		Shivaji Park, Dadar
		Santacruz Airport
		Ghatkopar (W)
		Vashi Naka, Chembur
		Goregaon (E)
		Charkop, Kandivali
		Sion - Sion Circle
		Hindu Colony - Dadar Hindu Colony
		Matunga - Gandhi Market
		Kamathipura - Kamathipura
		Malabar Hills - Sahyadri Guest House/ 3 Batti/ Bangauga
2.	Navi Mumbai	Mahape Shil Road, MIDC Mahape
		APMC Market Vashi

Sr. No.	City	Location name (details)
		Ryan International School, Uran Phata, Nerul
3.	Thane	Main Road- Gaondevi Mandir, Naupada
		Tembhi Naka
		Ghokhale Road
		Pokharan - Vartak Nagar
		Wagle Estate
4.	Pune	Nucleus Mall
		Pune University
		Swargate
		Hadpsar
		Visharantwadi
5.	Nashik	Dwarka Circle
		Pandit Colony Near NMC
		Pavan Nagar CIDCO
		Bytco
		Udyog Bhavan, Satpur
6.	Aurangabad	Ghati Hospital
		Nirala Bazaar

Sr. No.	City	Location name (details)
		CIDCO N-9
		Residencial Area Near High Cort
		Swami Vivekanand Collage
7.	Nagpur	Govt. Medical College
		Sitabardi Police Station
		Shivaji Nagar
		Mahal
		Sadar
8.	Kalyan	Katemanivali
		Birla College
		Bail Bazar
9.	Amravathi	Ervin Hospital Square
		Budhwara
		Rajkamal Chowk
10.	Jalgaon	Near Civil Hospital
		Shivaji Chowk (Near Court)
		Shashtri Tower Chowk
11.	Kolhapur	Rajarampuri chowk

Sr. No.	City	Location name (details)
		Papachi Tickti
		Gokhale College
		Dabhorakar Corner
12.	Sangli	Rajwada Chowk
		Visharambaug
		Miraj Market
13.	Mira-Bhayander	Bhakti Vedant Hospital, Tenkar pada
		Golden police Chawki
		Shivaji Chak Kashi meera
14.	Vasai-Virar	Range office, Satwali, Vasai East
		Valiv phata, Vasai East
		N.B. Estate, Virar West
15.	Ulhasnagar	Shivaji Chowk No. 3 - Near the Chowk
		Camp No. 5 Bus Stop - Bus Stop
		Camp No. 1 Gol Maidan - Gol Maidan
16.	Bhiwandi-Nizampur	Dhamankar Naka
		Indira Gandhi Memorial Hospital
		Shelar Near Nadi naka

Sr. No.	City	Location name (details)
17.	Chandrapur	Gandhi Chowk
		Jatpura Gate
		Warora Naka
18.	Nanded-Waghala	Dr. Shankarao Chavan Govt. Medical College & Hospital Vishnupuri
		District Court Station Road
		Govt. Polytechnic College
19.	Ahmednagar	Kotala Chawk
		Chitale Road
		Old Bus Stand
20.	Dhule	Agrasen Chawk
		Fulwala Chawk
		Santoshi Mata Chawk
21.	Malegaon	Mosampul
		Central Bus Stand
		Malegaon Camp
22.	Pimpri-Chinchwad	Chafekar Chowk
		Dange Chowk
		Bhosari

Sr. No.	City	Location name (details)
23.	Parbhani	Shaniwar Bazar
		Railway Station Court
		Civil Hospital
24.	Latur	Shahu College
		Civil Hospital
		CJM Court
25.	Akola	Collector Office
		Civil line Chawk / Ratanlal plot
		City Kotawali Chawk near police station
26.	Solapur	Balives
		Bijapur Road
		Ashok Chowk
27.	Panvel	Old Panvel, Panvel corporation building
		Khanda colony
		Utsav chowk, Kharghar

ANNEXURE II

Annexure II - Noise Pollution (R & C) Rules, 2000 amendment dt. 21st April 2009

ध्वनी प्रदूषण (नियंत्रण व नियमन) नियम, २०००
ची प्रभावीपणे अंमलबजावणी करण्यासाठी
प्राधिकरणाची नियुक्ती करण्याबाबत

महाराष्ट्र शासन

पर्यावरण विभाग, मंत्रालय,

शासन निर्णय क्रमांक : ध्वनीप्र-२००९/प्र.क्र.९५/तांक-१

नविन प्रशासन भवन, १५ वा मजला, मादाम कामा रोड, मुंबई - ४०० ०३२

दिनांक: २१ एप्रिल, २००९

- वाचा - १) शासन निर्णय क्रमांक : ध्वनीप्र-२०००/प्र.क्र.२४/तांक ३, दिनांक १६ ऑगस्ट, २००० आणि दिनांक १५ जून, २००१
२) मे. उच्च न्यायालयाच्या मुंबई खंडपीठामध्ये दाखल करण्यात आलेल्या सार्वजनिक हिताच्या याचिका क्र. (१) २०५३/२००३, (२) ७४/२००७, (३) ८५/२००७ आणि (४) १/२००९ मधील दिनांक २६/२/२००९ चे आदेश

प्रस्तावना :-

पर्यावरण विभाग, शासन निर्णय क्र. एन.पी./२०००/२४/क्र.३, दिनांक १६/८/२००० व दिनांक १५/०६/२००१ रोजी ध्वनी प्रदूषण (नियंत्रण व नियमन) नियम, २००० च्या २ (क) नुसार, राज्यातील पोलीस आयुक्त असलेल्या शहरामध्ये पोलीस उप आयुक्त व इतर ठिकाणी जिल्हा पोलीस अधिक्षक यांना एक सदस्य प्राधिकरण म्हणून ध्वनी प्रदूषण नियमाची अंमलबजावणी करण्यासाठी नियुक्ती करण्यात आली आहे.

मा. उच्च न्यायालय, मुंबई खंडपीठाने वरील याचिकांमध्ये महाराष्ट्र शासन व इतर विभागांनी ध्वनी प्रदूषण (नियंत्रण व नियमन) नियम, २००० ची प्रभावी अंमलबजावणी करण्याकरीता दिनांक २६/२/२००९ रोजी ठराविक निर्देश दिलेले आहेत. त्यानुसार स्थानिक स्वराज्य संस्थांनी शहरी भागात शांतता झोन जाहीर करणे आवश्यक आहे.

शासन निर्णय :-

१) मा. उच्च न्यायालयाच्या आदेशानुसार तसेच ध्वनी प्रदूषण (नियंत्रण व नियमन) नियम, २००० च्या कलम ३ (५) नुसार स्थानिक स्वराज्य संस्थांनी शहरी भागात शांतता झोन त्वरीत जाहीर करून योग्य ते आदेश काढावेत. तसेच शहरात शांतता झोनचे फलक लावून आदेशाची प्रभावी अंमलबजावणी करण्यासाठी योग्य ती प्रसिध्दी करावी.

- १) शैक्षणिक संस्थांच्या सभोवताली १०० मीटर क्षेत्र
- २) सर्व न्यायालयाच्या सभोवतीली १०० मीटर क्षेत्र
- ३) रुग्णालयाच्या सभोवताली १०० मीटर क्षेत्र

२) ध्वनी प्रदूषणाची वाढती पातळी व निरनिराळे प्रदूषण स्रोत विचारात घेता, शासनाच्या निरनिराळ्या विभागांनी सद्यस्थितीत ते राबवीत असलेल्या नियमाद्वारे ध्वनी प्रदूषण नियंत्रण व नियमनाची अंमलबजावणी करावी. त्याकरिता परिशिष्ट १ मध्ये नमूद केल्याप्रमाणे, शासनाच्या संबंधित विभागांच्या अधिपत्याखालील संस्थांच्या अधिकाऱ्यांना पदनाम प्राधिकरण म्हणून जाहीर करण्यात येत आहे. याबाबत संबंधीत

रौटा/इच-०१००[४००-४-२००९]-१

विभागांनी स्वतंत्र आदेश निर्गमित करावेत. सदर प्राधिकरण, ते राबवित असलेल्या नियमांच्या तरतुदीनुसार तसेर ध्वनी प्रदूषण (नियंत्रण व नियमन) नियम, २००० च्या तरतुदीनुसार ध्वनी प्रदूषण नियंत्रण व नियमनाची कार्यवाही करण्यास सक्षम असेल.

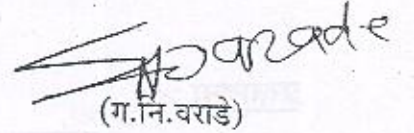
A.

३) ध्वनी प्रदूषण करणारे उपकरणे / स्रोत जसे D.G. Sets (15-500 KVA); Coal Washeries ; Fire Crackers Generator Sets with Diesel (upto 1000 KVA) manufactured on or after 1st July, 2003 ; Vehicles at manufacturing stage from the year, 2003 and 1st April, 2005 respectively as well as Noise Limits for Automobiles and Domestic appliances and construction equipments at the manufacturing stage laid down under the provisions of the Environment (Protection) Act, 1986 and Rules made there under इत्यादींची, सभोवतालच्या हवेतील ध्वनी प्रदूषण गुणवत्तेच्या विहित मर्यादा परिशिष्ट २ मध्ये नमूद केल्याप्रमाणे असेल.

४) या शासन निर्णयान्वये, पर्यावरण विभागाने यापूर्वी दिनांक १६ ऑगस्ट, २००० आणि दिनांक १५ जून, २००१ रोजी या विषयाबाबत निर्गमित केलेला शासन निर्णय खारीज करण्यात येत आहे. हा शासन निर्णय निर्गमित झाल्याच्या दिनांकापासून लागू राहील.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नावाने.

B.


(ग.नि.वराडे)

संचालक (पर्यावरण)

प्रत माहितीसाठी :-

मा. मुख्यमंत्र्यांचे प्रधान सचिव

मा. उपमुख्यमंत्र्यांचे प्रधान सचिव

मा. मुख्यसचिव

अतिरिक्त मुख्यसचिव, गृह विभाग, मंत्रालय

अतिरिक्त मुख्यसचिव, सार्वजनिक आरोग्य विभाग, मंत्रालय

प्रधान सचिव (अ. व सु.), गृह विभाग

प्रधान सचिव, नगर विकास विभाग (१), मंत्रालय

प्रधान सचिव, नगर विकास विभाग (२), मंत्रालय

प्रधान सचिव, महसूल विभाग, मंत्रालय

प्रधान सचिव, उच्च व तंत्रशिक्षण विभाग, मंत्रालय,

प्रधान सचिव, शालेय शिक्षण विभाग, मंत्रालय

सचिव, गृह विभाग (परिवहन),

सचिव, पर्यावरण

मा. मंत्री (पर्यावरण), यांचे खाजगी सचिव,

मा. राज्यमंत्री (पर्यावरण), यांचे खाजगी सचिव,

सर्व मा. मंत्री / राज्यमंत्री यांचे खाजगी सचिव

सर्व जिल्हाधिकारी

सर्व पोलीस आयुक्त / उप आयुक्त

सर्व जिल्हा पोलीस अधिक्षक / उप अधिक्षक

पर्यावरण विभाग सर्व अधिकारी / कार्यासन / निवडनस्ती - तांक १

परिशिष्ट - १

एच-०१०० -१३

ध्वनी प्रदूषण व नियमन व नियंत्रणाची अंमलबजावणी करण्यासाठी शासनाच्या अधिपत्याखाली असलेल्या संस्थांमधील संबंधीत अधिका-याची पदनाम प्राधिकरण म्हणून नियुक्ती

Sr. No	Officer /Agency	Concerned Department	Duties
1.	District Magistrate, Sub-Divisional Magistrate,	Revenue	Corresponding Rules for the enforcement of the Noise Pollution Control measures within their respective jurisdiction.
2.	Police Commissioner or any other officer not below the rank of the Deputy Superintendent of Police designated for the maintenance of Ambient Air Quality Standards, as mentioned in the Rule 2(c) of Noise Pollution(Regulation and Control) Rules, 2000.	Home	The Police Authorities will be responsible for initiating further legal actions in respect of the violations..
3.	Municipal Commissioner, Additional/Deputy Municipal Commissioner/ Chief Officer of Municipal Council/Committee Govt. of Maharashtra not below the rank of the Deputy Superintendent of Police.	Urban Development	<p>Corresponding Rules for the enforcement of noise standards laid down under the Environment (Protection) Rules, 1986 at source for construction projects, utilities for buildings (ACs, DG sets etc.), domestic appliances, development and other activities in their jurisdiction.</p> <p>The urban local bodies shall be responsible for demarcation of the silent zones as per the Noise Rules, 2000 and displaying the same adequately.</p> <p>The urban local bodies shall include an Action Plan for noise control in the Environmental Status Report submitted by them annually, including noise monitoring and noise mapping studies.</p> <p>The Local Body and Urban Development Deptt., Govt. of Maharashtra will not grant any permissions for development activities in consistent with or in conflict with the categorization of zone. In case of overlapping zones, stringent standards will prevail over in that particular area.</p>
4.	Registrar /Head Master of the Educational Institutions duly approved by the concerned Government not below the rank of the Deputy Superintendent of Police	Higher & Technical Education/ School Education	Corresponding Rules for the enforcement and maintenance of the Ambient Noise Standards laid down for domestic appliances, automobiles etc. in respect of any activity in its jurisdiction.
5.	Dean/Superintendent of the Government Hospitals not below the rank of the Deputy Superintendent of Police	Public Health	Corresponding Rules for the enforcement and maintenance of the Ambient Noise Standards laid down for domestic appliances, automobiles etc. in respect of any activity in its

6.	Head of M.M.R.D.A., M.S.R.D.C., C.I.D.C.O., having local jurisdiction constituted under various Laws and Public Works Department.	Urban Development	<p>jurisdiction.</p> <p>Corresponding Rules for the enforcement and maintenance of Noise Standards laid down under the Environment (Protection) Rules, 1986 at source for construction projects, utilities for buildings (ACs, DG sets etc.), domestic appliances, development and other activities in their jurisdiction</p> <p>These Developmental Authorities should include adequate noise abatement measures in their project activities such as noise barriers to the bridges and flyovers, tree plantation for roads etc.</p>
7.	Member Secretary and any officer Maharashtra Pollution Control Board not below the rank of the Deputy Superintendent of Police	Environment Department	<p>(i) Monitoring of Ambient Noise Levels in case of specific requests from other authorities referred in the table and communicating the results to the respective Authorities for further necessary action at their end.</p> <p>(ii) For the enforcement of Noise Pollution Control Measures and Standards in industrial areas.</p>
8.	<p>(i) Any officer from the State Transport Department / Deputy Regional Transport Officer in their respective jurisdiction not below the rank of the Deputy Superintendent of Police</p> <p>(ii) Head of Maharashtra State Road Transport Corporation or any officer/ Depot Manager not below the rank of the Deputy Superintendent of Police.</p> <p>(iii) Traffic Police Authorities not below the rank of the Deputy Superintendent of Police</p>	Home Department (Transport)	<p>Enforcement and maintenance of the Noise Standards laid down under Environment (Protection) Rules, 1986 and Motor Vehicles Act, 1939 for the new and operating vehicles within their respective jurisdiction.</p> <p>The noise levels generated by the in-use vehicles should be monitored while grant of Pollution Under Control Certificate.</p>

परिशिष्ट- २

Schedule
(Under rule 3(1) and 4(1)) of Noise Pollution (Control and Regulation) Rules, 1999

Ambient Air Quality Standards in respect of Noise

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
(A)	Industrial Area	75	70
(B)	Commercial Area	65	55
(C)	Residential Area	55	45
(D)	Silence Zone	50	40

- i. Day time shall mean from 6.00 a.m. to 10.00 p.m.
- ii. Night time shall mean from 10.00 p.m. to 6.00 a.m.
- iii. Silence Zone is defined as an area comprising not less than 100 meters around hospitals, educational institutions and courts. The silence zones are zones which are declared as such by the competent authority.
- iv. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

A "decibel" is a unit in which noise is measured.

"A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.

Leq : It is an energy mean of the noise level, over a specified period.

2. Standards / Guidelines for control of Noise Pollution from Stationary Diesel Generator (DG) Sets.

(A) Noise Standards for DG sets (15-500 KVA)

The total sound power level, L_w of a DG set should be less than, $94 + 10 \log_{10} (KVA)$, dB(A), at the manufacturing stage, where, KVA is the nominal power rating of a DG set. This level should fall by 5 dB(A) every five years, till 2007, i.e. in 2002 and then in 2007

(B) Mandatory acoustic enclosure/acoustic treatment of room for stationary DG sets (5KVA and above).

Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.

The acoustic enclosure / acoustic treatment of the room should be designed for minimum 25 dB (A) Insertion Loss or for meeting the ambient noise standards, whichever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/acoustic treatment. Under such circumstances, the performance may be checked for noise reduction upto actual ambient noise level, preferably in the night time). The measurement for Insertion Loss may be done at different points at 0.5 m from the acoustic enclosure/room, and then averaged.

The DG set should also be provided with proper exhaust muffler with insertion loss of minimum 25dB (A).

- A. (C) **Guidelines for the manufacturers/users of DG sets (5 KVA and above).**
01. The manufacturer should offer to the user a standard acoustic enclosure of 25 dB(A) Insertion Loss and also a suitable exhaust muffler, with Insertion Loss of 25 dB(A).
 02. The user should make efforts to bring down the noise levels due to the D.G. set, outside his premises, within the ambient noise requirements by proper siting and control measures.
 03. The manufacturer should furnish noise power levels of the unsilenced DG sets as per standards prescribed under (A).
 04. The total sound power level of a D.G. set, at the user's end, shall be within 2 dB(A) of the total sound power level of the DG set, at the manufacturing stage as prescribed under (A).
 05. Installation of a DG set must be strictly in compliance with the recommendations of the DG set manufacturer.
 06. A proper routine and preventive maintenance procedure for the DG set should be set and followed in consultation with the DG set manufacturer, which would help to prevent noise levels of the DG set from deteriorating with use.

3. Noise Level Standards for Coal Washeries

Operational / Working Zone -- not to exceed 85 dB(A) Leq for 8 hours exposure.

The Ambient Air Quality Standards in respect of noise as notified under Environment (Protection) Rules, 1986 shall be followed at the boundary line of the coal washery.

Code of Practice of Coal Washery

Water or Water mixed chemical shall be sprayed at all strategic coal transfer points such as conveyors, loading/unloading points etc. As far as practically possible conveyors, transfer points etc. shall be provided with enclosures.

- * The crushers/pulverizers of the coal washeries shall be provided with enclosures, fitted with suitable air pollution control measures and finally emitted through a stack of minimum height of 30m, conforming particulate matter emission standards of 150 mg/Nm³ or provided with adequate water sprinkling arrangement.
- * Water sprinkling by using fine atomizer nozzles arrangement shall be provided on the coal heaps and on land around the crushers/pulverisers.
- * Area, in and around the coal washery shall be pucca either asphalted or concreted.
- * Water consumption in the coal washery shall not exceed 1.5 cubic meter per tonne of coal.
- * The efficiency of the settling ponds of the waste water treatment system of the coal washery shall not be less than 90%.
- * Green belt shall be developed along the road side, coal handling plants, residential complex, office building and all around the boundary line of the coal washery.
- * Storage bunkers, hoppers, rubber decks in chutes and centrifugal chutes shall be provided with proper rubber linings.

- * Vehicles movement in the coal washery area shall be regulated effectively to avoid traffic congestion. High pressure horn shall be prohibited. Smoke emission from heavy duty vehicle operating in the coal washeries should conform the standards prescribed under Motor Vehicle Rules, 1989.

4. Noise Standards for fire-crackers

- A.(i) The manufacturer, sale or use of fire-crackers generating noise level exceeding 125 dB(A) or 145 dB(C)_{pk} at 4 meters distance from the point of bursting shall be prohibited.
- (ii) For individual fire-cracker constituting the series (joined fire crackers), the above mentioned limit be reduced by $5 \log_{10} (N)$ dB, where N=Number of crackers joined together.
- B. The broad requirements for measurement of noise from fire-crackers shall be-
- (i) The measurements shall be made on a hard concrete surface of minimum 5 meter diameter or equivalent.
- (ii) The measurement shall be made in free field conditions i.e., there shall not be any reflecting surface upto 15 meter distance from the point of bursting.
- (iii) The measurement shall be made with an approved sound level meter.
- C. The Department of Explosives shall ensure implementation of these standards.

5. Noise Limits for Generator Sets run with diesel

Noise limit for diesel generator sets (upto 1000 KVA) manufactured on or after 1st July, 2003

The maximum permissible sound pressure level for new diesel generator (DG) sets with rated capacity upto 1000 KVA, manufactured on or after the 1st July, 2003 shall be 75 dB(A) at 1 meter from the enclosure surface.

The diesel generator sets should be provided with integral acoustic enclosure at the manufacturing stage itself.

The implementation of noise limit for these diesel generator sets shall be regulated as given in below mentioned paragraph.

Requirement of certification

Every manufacturer of engine or every importer of engine or product must have valid certificates of Type Approval and certificates of Conformity of Production for each year, for all engine models being manufactured or for all engines or product models being imported, after the effective date with the emission limit as specified in earlier paragraph.

6. (1) Noise limits for vehicles applicable at manufacturing stage
from the year, 2003.

Sr.No.	Type of Vehicle	Noise Limits dB(A)	Date Implementation of
(1)	(2)	(3)	(4)
1.	Two Wheeler		1 st January, 2003
	Displacement upto 80 cm ³	75	
	Displacement more than 80 cm ³ but upto 175 cm ³	77	
	Displacement more than 175 cm ³	89	
2.	Three Wheeler		1 st January, 2003
	Displacement upto 175 cm ³	77	
	Displacement more than 175 cm ³	80	
3.	Passenger Car	75	1 st January, 2003
4.	Passenger or Commercial Vehicles		1 st July, 2003
	Gross vehicle weight upto 4 tonnes	80	
	Gross vehicle weight more than 4 tonnes but upto 12 tonnes	83	
	Gross vehicle weight more than 12 tonnes	85	

(2) Noise Limits for vehicles at manufacturing stage applicable on and from 1st April, 2005

Sr.No.	Type of vehicles	Noise Limits
1.0	Two Wheelers	
1.1	Displacement upto 80 cc	75
1.2	Displacement more than 80 cc but upto 175 cc	77
1.3	Displacement more than 175 cc	80
2.1	Three Wheelers	
2.1	Displacement upto 175 cc	77
2.2	Displacement more than 175 cc	80
3.0	Vehicles used for the carriage of passengers and capable of having not more than nine seats, including the driver's seat	74
4.0	Vehicles used for the carriage of passengers having more than nine seats including the driver's seat and a maximum Gross Vehicle Weight (GVW) of more than tonnes	
4.1	With an engine power less than 150KW	78
4.2	With an engine power of 150 KW or above	80
5.0	Vehicles used for the carriage of passengers having more than nine seats including the driver's seat: Vehicle used for the carriage of goods.	
5.1	With a maximum GVW not exceeding 2 tonnes	76
5.2	With a maximum GVW greater than 3 tonnes but not exceeding 3.5 tonnes	77
6.0	Vehicles used for the transport of goods with a maximum GVW exceeding 3.5 tonnes	
6.1	With an engine power less than 75 KW	77
6.2	With an engine power of 75 KW or above but less than 150KW	78
6.3	With an engine power of 150 KW or above	80

7. Noise Standards Part E:-

A. Noise limits for Automobiles (Free Field Distance at 7.5 meter in dB(A) at the manufacturing stage.

(a)	Motorcycle, Scooters and Three Wheelers	80
(b)	Passenger Cars	82
(c)	Passenger or Commercial vehicles upto 4 MT	85
(d)	Passenger or Commercial vehicles above 4 MT and Upto 12 MT	89
(e)	Passenger or Commercial vehicles exceeding 12 MT	91

B. Domestic appliances and construction equipments at the manufacturing stage to be achieved by 31st December, 1993.

(a)	Window Air Conditioners of 1 ton to 1.5 ton	68
(b)	Air Coolers	60
(c)	Refrigerators	46
(d)	Diesel generator of domestic purposes	85-90
(e)	Compactors (rollers), Front Loaders, Concrete Mixers, Cranes (moveable), Vibrators and Saws	75

ANNEXURE III

Annexure III - Hourly Noise Levels on 22nd and 23rd December 2019 at different locations in Maharashtra

Hourly Noise Levels on 22nd and 23rd December 2019 at different locations in Maharashtra

			22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19
			Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Monday	Monday	Monday	Monday	Monday	Monday
	City	Location name (details)	06:00-07:00	07:00-08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-00:00	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00
1	Mumbai	Backside of High Court	51.8	61.2	67.1	70.8	79.8	80.3	71.2	70.6	69.3	68.6	69.5	73.6	72.6	74.6	73.6	68.0	73.2	62.3	55.3	54.3	59.1	61.3	57.8	60.6
2	Mumbai	Mumbadevi Temple	58.3	68.7	77.9	69.3	72.3	78.1	62.1	65.3	69.3	71.3	75.3	72.5	73.6	81.3	75.9	73.2	62.3	64.2	52.3	55.8	59.6	59.2	59.4	68.4
3	Mumbai	Borivali National Park	54.6	58.0	63.4	68.3	69.4	69.7	68.6	63.8	64.6	66.3	67.6	69.5	69.5	69.5	61.4	61.2	63.4	60.8	58.6	54.1	51.9	55.1	61.4	64.6
4	Mumbai	Antop Hill	55.2	56.9	64.9	65.6	73.5	78.5	77.9	79.0	77.5	79.1	79.3	80.0	77.6	77.2	77.7	77.3	66.3	58.3	54.2	58.5	53.9	45.3	59.3	61.3
5	Mumbai	Shivaji Park, Dadar	54.2	58.4	56.2	57.4	61.8	60.7	59.9	55.8	61.7	64.9	68.0	72.2	75.5	70.1	74.1	74.4	69.3	71.3	62.4	56.2	51.0	49.7	50.2	53.9
6	Mumbai	Santacruz Airport	65.2	68.5	70.5	71.3	72.5	70.5	68.5	69.8	65.5	66.3	70.1	68.4	70.4	71.9	74.2	75.2	67.5	68.6	60.0	61.3	55.3	57.3	56.3	48.5
7	Mumbai	Ghatkopar (W)	68.4	69.5	70.3	69.2	66.8	68.4	68.6	65.4	66.7	66.8	68.1	68.9	70.1	71.1	71.9	71.7	64.5	57.3	59.3	52.3	52.3	56.5	66.4	66.5
8	Mumbai	Vashi Naka, Chembur	61.6	63.7	65.4	67.6	69.7	71.4	73.6	74.7	77.5	72.2	71.9	70.1	67.1	69.4	72.6	71.0	69.3	63.5	68.9	53.6	55.3	56.3	63.3	73.1
9	Mumbai	Goregaon (E)	68.0	61.0	64.7	66.9	61.8	70.1	68.3	66.3	66.6	70.2	70.1	64.0	69.9	70.9	75.8	73.6	55.6	69.8	51.7	57.2	65.0	65.3	54.9	50.4
10	Mumbai	Charkop, Kandivali	57.5	56.5	65.5	62.9	63.7	59.8	58.9	58.9	59.0	59.5	57.4	58.2	72.9	63.9	70.2	71.6	65.1	74.6	63.4	57.2	58.9	63.1	59.5	60.5
11	Mumbai	Sion	57.6	53.4	54.6	56.6	56.9	58.9	60.7	57.6	54.5	55.2	53.1	60.0	64.6	65.6	69.1	69.4	61.5	50.6	63.2	69.0	59.3	60.0	58.3	64.6
12	Mumbai	Hindu Colony - Dadar	59.9	67.1	70.0	67.7	69.9	71.3	72.2	71.4	73.1	71.0	70.9	72.9	68.1	74.8	77.2	74.9	74.7	70.9	69.3	55.2	54.2	56.0	54.5	54.3
13	Mumbai	Matunga - Gandhi Market	63.0	64.6	66.2	67.0	63.2	67.9	73.1	75.3	68.7	71.0	69.3	66.3	68.7	74.5	65.2	67.4	79.6	60.4	60.0	58.6	58.4	59.6	59.2	58.6
14	Mumbai	Kamathipura	64.8	72.1	63.2	71.4	72.3	71.5	72.0	71.9	73.4	74.7	72.5	72.3	73.1	72.3	70.1	75.8	58.6	75.4	48.2	73.4	53.9	42.3	58.5	43.0
15	Mumbai	Malabar Hills	56.7	58.3	61.8	59.7	69.0	62.4	63.2	63.5	63.2	64.6	66.4	67.5	70.5	72.4	74.1	73.9	54.1	61.8	43.8	58.5	43.2	48.2	43.8	47.5
16	Navi Mumbai	Mahape Shil Road, MIDC Mahape	63.5	64.2	65.5	66.1	66.4	66.9	69.7	69.4	68.7	65.2	64.3	60.8	60.5	64.7	68.9	72.9	71.8	66.6	64.2	61.1	57.3	59.8	53.5	66.5
17	Navi Mumbai	APMC Market Vashi	64.8	65.4	66.9	66.7	68.2	64.1	68.7	68.9	70.6	69.7	67.6	69.5	69.2	70.4	69.7	72.1	69.3	55.3	62.4	56.2	51.0	49.7	50.2	53.9
18	Navi Mumbai	Ryan International School, Uran Phata, Nerul	65.4	67.9	66.1	66.8	66.9	65.5	67.5	69.9	70.2	68.4	69.1	69.9	72.1	71.4	72.4	73.5	69.3	59.3	52.3	61.5	60.2	60.9	61.8	63.8

			22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19
			Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Monday	Monday	Monday	Monday	Monday	Monday
	City	Location name (details)	06:00-07:00	07:00-08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-00:00	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00
19	Thane	Main Road- Gaondevi Mandir, Naupada	66.2	67.1	65.4	66.1	66.9	67.1	65.9	66.7	68.1	66.2	68.9	69.8	74.2	70.5	71.2	70.7	60.4	52.7	46.5	47.3	44.3	43.4	46.7	53.8
20	Thane	Tembhi Naka	65.2	65.9	67.1	67.8	62.4	63.1	64.7	65.8	66.7	62.5	69.5	70.1	72.9	73.4	78.1	69.8	62.6	60.5	58.6	59.4	57.6	55.3	54.7	58.9
21	Thane	Ghokhale Road	62.9	62.1	63.7	65.5	66.3	67.4	65.4	64.5	63.7	63.8	68.4	69.5	70.1	70.4	70.9	69.8	63.8	65.7	59.8	57.6	58.2	49.3	45.7	58.5
22	Thane	Pokharan - Vartak Nagar	57.1	60.2	66.3	64.0	66.1	65.4	66.8	62.7	65.3	76.9	75.3	71.3	68.0	69.2	71.2	70.0	70.6	68.9	71.2	60.2	49.3	57.8	53.6	62.4
23	Thane	Wagle Estate	58.6	54.7	54.9	55.4	55.2	54.4	56.1	55.2	54.9	56.4	58.3	62.8	62.3	69.3	70.6	64.2	61.3	72.1	59.1	58.7	56.3	55.7	45.1	57.9
24	Pune	Nucleus Mall	53.8	59.6	61.4	62.7	65.6	63.2	65.1	72.5	69.4	66.5	66.3	64.8	66.4	67.2	68.5	64.2	64.9	58.4	56.9	41.6	40.3	39.8	44.2	53.9
25	Pune	Pune University	57.3	61.4	63.8	64.1	66.3	65.9	72.3	74.6	77.3	68.7	63.2	71.2	71.4	68.2	73.5	72.4	61.2	57.4	51.2	45.1	44.3	42.1	44.6	54.6
26	Pune	Swargate	53.4	60.3	64.3	66.7	64.9	71.2	73.8	76.3	74.2	78.1	71.0	74.3	77.3	76.2	74.6	73.6	62.4	61.3	49.7	43.5	44.8	47.1	44.3	52.7
27	Pune	Hadpsar	58.3	61.7	64.3	65.3	64.0	72.3	74.5	77.1	78.9	74.6	79.3	76.2	74.1	77.2	77.3	69.8	63.2	58.7	58.1	47.3	47.0	46.2	47.1	54.6
28	Pune	Visharantwadi	57.8	63.2	60.2	61.4	62.3	66.7	68.9	70.1	72.4	71.9	74.6	73.2	65.4	68.0	63.2	65.4	60.2	59.7	52.6	46.3	47.1	43.2	44.1	51.0
29	Nashik	Dwarka Circle	77.8	78.1	77.9	79.4	77.4	75.1	73.9	71.8	70.8	66.4	66.1	67.9	72.4	70.4	69.8	68.5	67.8	67.9	66.0	65.8	64.2	64.8	66.9	67.8
30	Nashik	Pandit Colony Near NMC	47.5	48.3	49.8	51.2	52.6	54.8	57.9	56.4	58.9	59.1	58.4	60.1	61.2	58.9	56.4	57.1	56.5	55.2	53.1	52.6	50.1	47.8	46.5	46.1
31	Nashik	Pavan Nagar CIDCO	48.1	48.2	49.1	52.1	53.2	55.2	59.4	58.4	56.9	57.4	58.3	59.9	62.4	62.1	61.8	56.4	55.2	54.8	52.1	50.1	49.8	46.6	45.8	45.0
32	Nashik	Bytco	75.8	76.4	77.4	77.9	76.4	77.1	75.4	73.2	74.5	70.5	70.2	72.1	74.5	75.8	74.5	70.4	68.2	67.4	66.7	65.8	60.9	58.3	58.0	59.6
33	Nashik	Udyog Bhavan, Satpur	69.7	69.5	71.0	72.5	70.4	68.5	68.1	66.8	66.1	65.7	66.4	68.7	70.8	71.1	69.8	67.4	62.3	63.8	59.8	56.1	53.2	53.9	54.8	56.9
34	Aurangabad	Ghati Hospital	51.0	53.0	56.0	55.0	58.0	58.0	61.0	62.0	63.0	61.0	62.0	63.0	64.0	62.0	58.0	51.0	50.0	48.0	42.0	41.0	39.0	41.0	43.0	45.0
35	Aurangabad	Nirala Bazaar	48.0	50.0	51.0	53.0	54.0	55.0	60.0	61.0	62.0	63.0	65.0	63.0	65.0	64.0	61.0	58.0	53.0	49.0	43.0	42.0	38.0	40.0	40.0	43.0
36	Aurangabad	CIDCO N-9	45.0	49.0	51.0	52.0	53.0	55.0	52.0	50.0	52.0	51.0	51.0	53.0	50.0	49.0	47.0	46.0	43.0	42.0	40.0	39.0	39.0	41.0	42.0	43.0

			22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19
			Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Monday	Monday	Monday	Monday	Monday	Monday
	City	Location name (details)	06:00-07:00	07:00-08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-00:00	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00
37	Aurangabad	Residencial Area Near High Cort	45.0	47.0	49.0	50.0	51.0	52.0	52.0	51.0	50.0	49.0	51.0	52.0	53.0	52.0	50.0	47.0	45.0	43.0	41.0	38.0	39.0	40.0	41.0	44.0
38	Aurangabad	Swami Vivekanand Collage	46.0	48.0	48.0	49.0	52.0	51.0	56.0	62.0	64.0	62.0	63.0	64.0	62.0	59.0	57.0	53.0	52.0	47.0	43.0	41.0	42.0	42.0	43.0	46.0
39	Nagpur	Govt. Medical College	53.7	57.4	60.8	62.7	60.4	61.7	60.6	61.4	61.2	61.2	62.3	65.2	59.6	60.6	58.8	58.9	55.2	56.1	53.6	52.9	49.1	49.7	47.5	45.6
40	Nagpur	Sitabardi Police Station	52.2	60.8	63.3	62.7	64.3	65.9	65.2	64.2	65.6	67.1	74.8	75.0	69.9	70.6	70.8	70.7	69.3	65.7	59.2	49.6	47.3	42.8	50.5	52.9
41	Nagpur	Shivaji Nagar	55.6	58.2	63.2	62.7	61.3	62.9	64.3	62.1	62.9	65.7	66.6	72.9	66.5	66.1	63.3	59.4	60.3	57.7	52.7	40.5	44.1	47.3	49.8	50.5
42	Nagpur	Mahal	53.6	62.6	64.0	64.0	65.9	64.0	64.1	60.1	62.5	64.7	64.5	64.1	65.0	66.3	65.0	66.4	59.7	56.7	51.9	47.7	45.4	44.9	49.2	52.1
43	Nagpur	Sadar	54.7	65.7	65.5	66.6	70.8	69.3	73.2	68.2	67.8	68.5	69.6	69.3	63.2	67.6	64.6	65.8	59.9	54.9	55.6	47.2	42.3	41.4	41.3	47.7
44	Kalyan	Katemanivali	66.3	66.6	69.1	69.9	73.6	69.5	70.9	70.5	69.8	68.0	66.9	72.7	71.4	70.5	74.4	71.9	59.5	59.7	57.1	48.7	47.8	45.2	47.4	53.1
45	Kalyan	Birla College	41.0	54.2	56.9	62.5	60.4	61.2	62.6	61.0	63.5	62.4	61.2	58.7	66.6	65.1	70.5	71.5	60.7	59.7	58.7	58.8	50.7	51.8	58.6	60.7
46	Kalyan	Bail Bazar	77.7	77.1	77.0	73.5	68.3	66.1	63.3	62.7	62.7	62.8	63.9	65.0	67.4	67.9	68.9	71.5	59.6	58.2	53.1	52.8	50.2	48.8	45.8	46.9
47	Amaravati	Ervin Hospital Square	57.6	60.8	60.4	61.3	61.3	62.1	63.6	62.6	63.1	63.7	63.4	64.4	64.4	65.2	63.9	62.7	58.4	57.4	50.2	48.1	47.6	45.2	47.0	55.2
48	Amaravati	Budhwara	57.6	60.1	62.5	63.4	63.2	63.5	63.4	63.3	61.7	61.8	64.2	64.3	63.0	66.8	65.0	63.1	59.4	55.9	52.2	50.7	47.3	46.2	51.5	56.3

			22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19
			Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Monday	Monday	Monday	Monday	Monday	Monday
	City	Location name (details)	06:00-07:00	07:00-08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-00:00	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00
53	Kolhapur	Rajarampuri chowk	49.3	51.9	50.6	61.8	55.8	60.1	65.0	66.4	65.9	67.9	69.1	64.9	73.3	65.0	63.6	69.3	60.4	48.5	43.1	43.7	38.1	41.3	44.0	44.7
54	Kolhapur	Papachi Tickti	50.4	53.5	59.6	64.7	70.8	75.6	74.7	66.8	73.7	68.7	68.2	72.3	71.4	74.3	72.4	60.1	56.6	58.9	46.5	40.6	42.2	44.2	46.2	52.4
55	Kolhapur	Gokhale College	44.9	50.6	62.1	63.3	72.2	75.6	81.9	83.8	71.3	68.0	69.1	76.0	78.6	83.8	85.4	72.7	62.3	63.2	59.2	53.2	45.5	43.8	44.7	48.9
56	Kolhapur	Dabhorakar Corner	63.2	74.7	79.7	72.2	73.7	83.4	80.5	81.6	74.6	80.1	79.9	74.6	83.5	82.7	80.8	79.1	60.1	64.4	60.9	53.6	49.8	52.1	50.3	59.7
57	Sangli	Rajwada Chowk	56.0	63.0	64.6	70.5	71.4	68.9	68.2	66.2	68.0	70.8	72.6	72.4	73.2	71.3	67.0	67.9	61.8	54.4	46.3	46.0	45.2	43.5	46.7	53.9
58	Sangli	Visharambaug	57.2	59.2	61.6	73.4	73.4	72.6	69.8	70.8	68.3	70.7	74.2	74.6	72.4	66.6	63.0	60.4	54.9	54.4	48.5	45.5	48.6	43.2	46.1	53.1
59	Sangli	Miraj Market	56.8	59.6	61.6	66.0	67.9	74.2	72.4	71.0	69.1	70.7	69.0	68.3	70.4	65.8	61.4	57.5	54.2	47.9	46.6	45.4	45.1	43.9	45.5	51.9
60	Mira-Bhyander	Bhakti Vedant Hospital, Tenkar pada	64.3	60.4	62.7	66.8	68.1	69.1	68.9	72.9	71.2	68.6	67.4	69.1	71.8	72.3	71.4	73.2	71.2	65.3	65.7	59.3	56.3	58.0	62.3	65.3
61	Mira-Bhyander	Golden police Chawki	60.4	61.4	76.6	71.5	62.3	77.9	75.6	63.8	75.6	69.4	76.1	72.8	73.7	74.9	75.6	69.8	72.3	78.6	63.2	64.2	64.3	59.5	62.9	60.2
62	Mira-Bhyander	Shivaji Chak Kashi meera	66.5	67.5	69.6	78.0	77.6	75.7	72.3	71.3	74.2	72.3	74.5	72.0	74.2	72.0	71.5	66.7	63.4	60.8	58.6	55.3	52.3	55.1	61.4	64.6
63	Vasai-Virar	Range office, Satwali, Vasai East	71.6	72.8	79.0	74.5	72.7	72.0	71.6	72.8	79.0	74.5	72.7	71.9	57.2	66.3	71.1	68.5	65.6	55.8	53.7	52.3	55.3	53.1	57.5	59.6
64	Vasai-Virar	Valiv phata, Vasai East	75.5	72.9	68.5	78.9	70.6	75.3	66.6	71.4	75.6	75.7	74.0	72.7	73.7	77.8	78.0	77.9	73.2	62.3	60.3	59.3	56.3	61.3	57.8	60.6
65	Vasai-Virar	N.B. Estate, Virar West	70.4	62.0	65.1	65.5	69.1	51.6	64.0	66.3	64.2	64.8	66.4	76.5	76.2	70.4	71.8	70.1	72.0	66.3	69.1	62.3	59.6	59.2	59.4	62.3
66	Ulhasnagar	Gaol Maidan (Commecial & Residentail)	54.3	68.0	77.0	76.1	74.0	71.5	75.4	65.6	74.9	77.0	76.1	74.0	71.5	75.4	65.6	67.4	65.3	52.6	51.4	55.9	63.3	60.6	66.5	62.3
67	Ulhasnagar	Doodh Naka, Ulhasnagr sector 5	65.8	66.3	60.2	65.3	71.2	71.3	62.5	71.4	68.6	75.4	66.5	68.2	70.6	68.7	71.6	63.7	67.5	68.6	60.0	61.3	55.6	57.3	56.3	48.5
68	Ulhasnagar	CHM college	56.6	62.0	61.7	64.9	67.7	72.1	70.0	67.0	73.4	73.9	74.2	71.3	74.8	77.9	75.5	77.8	64.5	60.2	55.9	54.3	52.3	57.6	66.4	62.3

			22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	22-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19
			Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Monday	Monday	Monday	Monday	Monday	Monday
	City	Location name (details)	06:00-07:00	07:00-08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-00:00	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00
69	Bhiwandi-Nizampur	Dhamankar Naka	53.1	55.5	58.1	58.4	64.3	65.4	63.3	61.8	60.5	63.9	64.6	66.2	63.8	70.7	67.6	63.5	54.1	59.3	62.3	58.5	52.3	51.5	60.5	63.3
70	Bhiwandi-Nizampur	Indira Gandhi Memorial Hospital	49.6	50.7	53.6	54.9	57.2	61.0	61.1	58.6	53.0	51.8	53.6	55.1	54.7	59.1	60.1	53.9	63.6	60.8	59.6	58.5	53.9	45.3	52.3	61.3
71	Bhiwandi-Nizampur	Shelar Near Nadi naka	62.3	64.5	68.1	73.4	74.9	75.4	74.6	75.2	74.3	74.8	74.8	75.9	71.9	73.0	76.8	74.4	64.1	59.3	55.3	43.2	50.5	61.3	55.1	55.6
72	Chandrapur	Gandhi Chowk	62.1	70.3	74.4	73.8	72.0	73.8	72.6	69.2	70.3	68.6	72.3	71.6	70.3	70.7	75.3	73.4	75.4	69.2	64.6	61.0	48.7	57.8	58.2	57.3
73	Chandrapur	Jatpura Gate	67.2	64.1	66.1	66.4	68.5	71.2	67.7	65.8	68.5	69.9	68.1	70.3	74.2	71.3	69.8	68.5	64.3	65.3	58.7	54.2	54.4	50.7	53.2	62.6
74	Chandrapur	Warora Naka	57.7	64.1	67.0	74.8	73.2	72.9	71.6	76.5	73.7	73.8	74.3	70.4	71.8	73.6	73.3	73.0	78.7	73.7	63.8	59.3	54.9	61.2	63.3	67.0
75	Nanded-Waghala	Dr. Shankarao Chavan Govt. Medical College & Hospital Vishnupuri	48.0	49.0	50.0	53.0	51.0	57.0	54.0	56.0	60.0	57.0	58.0	56.0	61.0	58.0	54.0	53.0	50.0	48.0	45.0	42.0	41.0	43.0	44.0	46.0
76	Nanded-Waghala	District Court Station Road	47.0	49.0	52.0	55.0	53.0	54.0	56.0	57.0	53.0	55.0	51.0	56.0	55.0	51.0	50.0	49.0	47.0	46.0	41.0	40.0	42.0	41.0	43.0	46.0
77	Nanded-Waghala	Govt. Polytechnic College	46.0	51.0	53.0	55.0	56.0	54.0	60.0	57.0	59.0	57.0	62.0	62.0	60.0	58.0	54.0	51.0	49.0	47.0	42.0	40.0	41.0	42.0	43.0	45.0
78	Ahmednagar	KotalaChawk	66.1	65.2	64.2	68.5	69.1	68.9	66.4	63.5	62.5	63.4	64.5	68.9	69.1	68.1	65.4	62.4	62.1	60.5	58.9	57.4	56.2	55.2	57.4	59.8
79	Ahmednagar	Chitale Road	66.4	66.9	67.8	68.4	69.4	68.4	66.8	64.2	65.6	65.9	66.3	67.5	69.6	68.4	67.2	67.5	65.2	64.2	60.1	58.9	56.1	54.2	56.9	59.6
80	Ahmednagar	Old Bus Stand	62.8	64.5	65.5	66.9	68.4	66.8	69.1	68.2	66.2	65.4	66.1	66.9	69.4	69.1	67.4	65.8	64.5	62.5	62.4	61.8	62.8	65.8	66.1	67.5
81	Dhule	Agrasen Chawk	60.1	61.5	63.5	64.2	66.9	68.4	67.5	66.8	67.4	68.9	67.1	69.8	69.9	69.5	67.8	65.8	62.5	60.5	60.1	60.4	59.7	57.4	58.3	59.8
82	Dhule	Fulwala Chawk	59.4	60.2	61.5	65.8	66.9	68.4	67.4	65.8	66.2	68.9	67.5	69.9	72.1	73.5	70.2	68.5	65.8	65.4	63.4	62.1	59.1	59.8	57.8	58.8
83	Dhule	Santoshi Mata Chawk	60.2	61.1	62.2	63.8	64.5	66.8	67.8	65.8	66.9	65.1	69.8	69.9	70.4	70.1	69.8	68.4	66.1	64.5	64.1	62.7	60.1	58.9	58.0	59.4

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			Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Monday	Monday	Monday	Monday	Monday	Monday
	City	Location name (details)	06:00-07:00	07:00-08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-00:00	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00
84	Malegaon	Mosampul	66.1	67.1	68.9	69.1	69.4	68.5	70.2	71.5	72.6	75.8	75.9	76.2	78.9	78.1	75.1	74.6	73.4	70.1	69.8	68.9	65.8	64.5	65.1	68.9
85	Malegaon	Central Bus Stand	65.8	66.9	68.7	70.1	72.5	73.9	74.5	73.5	72.9	75.1	71.5	75.9	76.9	77.4	74.5	75.9	72.9	70.2	68.9	67.4	67.1	67.9	68.5	63.8
86	Malegaon	Malegaon Camp	64.5	63.8	68.9	68.5	69.7	68.9	67.4	68.1	66.4	68.9	69.9	70.5	72.8	70.9	71.2	69.9	70.4	69.8	67.8	66.5	64.5	63.4	65.8	66.9
87	Pimpri-Chinchwad	Chafekar Chowk	57.4	59.6	64.2	65.4	66.3	68.7	66.4	63.0	69.1	68.7	65.9	70.2	71.4	70.6	71.3	65.4	59.8	57.6	46.3	44.1	42.9	43.5	47.1	49.1
88	Pimpri-Chinchwad	Dange Chowk	59.3	62.4	60.7	68.4	63.2	67.1	67.8	66.3	71.2	70.4	71.6	73.5	70.4	71.8	69.7	68.4	63.4	64.2	56.7	48.9	44.3	43.1	47.6	50.9
89	Pimpri-Chinchwad	Bhosari	56.2	59.3	63.2	62.7	60.2	67.1	65.3	63.8	66.2	64.2	69.1	70.4	62.1	65.3	69.4	65.7	60.1	59.8	47.3	43.7	41.6	42.9	47.3	53.4
90	Parbhani	Shaniwar Bazar	45.0	46.0	49.0	52.0	53.0	55.0	52.0	53.0	56.0	54.0	55.0	53.0	61.0	57.0	54.0	51.0	49.0	45.0	42.0	40.0	37.0	38.0	42.0	45.0
91	Parbhani	Railway Station Court	49.0	52.0	53.0	55.0	56.0	54.0	57.0	55.0	56.0	54.0	54.0	61.0	62.0	60.0	56.0	52.0	50.0	48.0	42.0	41.0	40.0	42.0	43.0	48.0
92	Parbhani	Civil Hospital	47.0	49.0	51.0	52.0	52.0	55.0	56.0	57.0	60.0	58.0	56.0	60.0	61.0	60.0	58.0	54.0	52.0	48.0	43.0	42.0	41.0	42.0	43.0	47.0
93	Latur	Shahu College	48.0	51.0	52.0	52.0	55.0	58.0	60.0	59.0	57.0	53.0	57.0	61.0	61.0	57.0	54.0	53.0	51.0	49.0	42.0	40.0	41.0	40.0	42.0	45.0
94	Latur	Civil Hospital	49.0	50.0	51.0	53.0	55.0	58.0	60.0	59.0	58.0	59.0	57.0	59.0	61.0	60.0	57.0	54.0	50.0	47.0	43.0	40.0	41.0	41.0	42.0	46.0
95	Latur	CJM Court	48.0	49.0	51.0	52.0	51.0	53.0	55.0	54.0	52.0	53.0	51.0	57.0	57.0	53.0	51.0	51.0	48.0	45.0	42.0	40.0	38.0	39.0	41.0	44.0
96	Akola	Collector Office	52.2	54.9	65.8	70.6	70.9	71.1	72.2	74.4	70.2	66.0	66.6	64.2	68.3	67.7	64.7	61.9	57.9	52.6	49.3	44.6	43.8	43.6	45.4	50.7
97	Akola	Civil line Chowk / Ratanlal plot	56.8	57.8	68.6	71.7	71.8	74.7	71.1	67.8	73.5	72.4	72.8	71.0	72.1	71.1	72.5	67.0	64.5	59.4	51.8	45.1	44.6	44.7	50.7	55.2
98	Akola	City Kotawali Chowk near police station	65.2	67.4	72.9	71.2	70.3	70.6	69.3	70.1	68.8	69.1	68.1	69.9	70.6	72.7	68.3	67.5	63.8	53.8	51.6	49.2	43.6	44.6	50.8	56.9

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			Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Sunday	Monday	Monday	Monday	Monday	Monday	Monday
	City	Location name (details)	06:00-07:00	07:00-08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-00:00	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00
99	Solapur	Balives	60.4	74.2	69.5	64.6	76.6	74.9	72.6	73.4	62.6	70.2	77.7	78.6	75.6	72.4	74.2	62.4	64.5	61.2	53.0	55.0	47.2	44.7	50.1	55.4
100	Solapur	Bijapur Road	61.2	66.3	74.1	72.2	62.6	70.2	72.3	63.0	73.4	72.6	74.5	74.9	76.4	74.5	73.4	74.2	67.2	63.0	54.7	49.3	40.9	48.7	50.1	52.0
101	Solapur	Ashok Chowk	64.2	70.2	74.2	60.0	77.3	75.1	58.4	74.2	73.2	62.6	70.6	80.4	73.3	70.1	73.0	75.6	70.1	64.2	62.9	52.0	44.3	43.0	47.2	58.6
102	Panvel	Old Panvel, Panvel corporation building	61.4	62.4	69.7	67.4	65.9	63.8	65.9	63.8	63.1	64.8	68.7	70.3	74.6	73.4	73.9	75.8	60.8	58.7	54.7	52.3	58.7	54.8	61.3	62.1
103	Panvel	Khanda colony	67.3	67.9	69.7	69.9	70.3	70.1	69.4	68.3	66.7	65.8	69.8	71.3	72.8	73.9	72.6	70.3	59.2	55.1	54.3	61.2	60.8	57.8	53.2	61.1
104	Panvel	Utsav chowk, Kharghar	68.7	69.8	70.1	68.4	69.5	68.4	66.9	64.9	60.3	61.6	65.4	69.7	70.1	71.3	73.8	72.4	63.3	57.6	52.6	58.6	59.6	55.2	52.8	61.7

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			Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Tuesday	Tuesday	Tuesday	Tuesday	Tuesday	Tuesday
	City	Location name (details)	06:00-07:00	07:00-08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-00:00	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00	
1	Mumbai	Backside of High Court	63.9	65.5	66.0	66.7	72.7	71.3	76.1	74.2	63.2	65.9	71.3	72.6	72.5	75.8	75.9	71.8	61.4	53.9	52.8	57.5	60.3	58.8	55.5	61.0	
2	Mumbai	Mumbadevi Temple	68.2	73.4	72.3	64.4	69.1	70.4	71.6	68.4	71.6	72.0	70.9	69.7	73.6	76.3	78.5	75.1	67.1	62.1	60.3	54.4	54.2	50.9	54.3	54.6	
3	Mumbai	Borivali National Park	59.6	67.5	69.1	74.9	77.3	77.1	70.6	75.7	70.5	76.5	73.0	67.1	74.3	69.9	73.6	75.4	65.3	56.6	54.8	40.9	40.7	59.7	38.8	46.9	
4	Mumbai	Antop Hill	59.4	62.0	59.4	62.3	65.8	63.1	62.7	61.1	62.0	59.1	61.8	62.4	61.3	75.3	81.8	72.3	62.3	72.2	61.8	63.7	46.1	42.3	51.6	61.1	
5	Mumbai	Shivaji Park, Dadar	51.7	55.1	61.7	61.9	64.1	65.6	65.2	64.2	64.7	66.5	67.1	68.6	68.2	71.4	75.0	69.1	65.6	59.3	51.9	44.4	41.1	39.5	52.5	61.6	
6	Mumbai	Santacruz Airport	70.9	68.2	65.6	65.9	64.8	64.4	62.4	63.8	62.2	64.3	63.0	66.6	73.2	62.8	69.4	70.7	63.2	55.6	58.5	56.9	54.7	55.7	58.6	63.0	
7	Mumbai	Ghatkopar (W)	67.1	71.1	78.2	73.6	74.1	71.2	77.8	73.2	70.4	72.9	74.1	72.6	70.1	76.3	75.6	71.2	60.9	49.0	48.3	37.2	34.6	37.7	43.9	45.9	
8	Mumbai	Vashi Naka, Chembur	60.0	63.8	61.6	60.1	59.8	63.4	72.2	68.5	65.9	63.7	61.5	62.9	74.5	77.6	74.6	75.4	72.3	68.2	61.5	53.2	54.3	59.6	59.9	60.4	

			23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	24-Dec-19	24-Dec-19	24-Dec-19	24-Dec-19	24-Dec-19	24-Dec-19
			Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Tuesday	Tuesday	Tuesday	Tuesday	Tuesday	Tuesday
	City	Location name (details)	06:00-07:00	07:00-08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-00:00	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00
9	Mumbai	Goregaon (E)	64.6	67.8	70.7	69.7	65.4	69.6	72.0	73.6	71.6	70.3	69.7	78.4	78.8	80.5	81.6	74.4	70.5	63.3	50.6	51.6	48.0	52.3	53.6	61.8
10	Mumbai	Charkop, Kandivali	66.3	65.2	64.8	70.5	69.9	70.0	67.1	63.7	66.7	67.2	66.8	67.4	71.5	72.6	75.1	74.1	67.5	58.3	54.2	52.3	51.3	54.3	64.9	65.7
11	Mumbai	Sion	62.8	64.1	65.1	73.6	64.5	69.6	72.0	73.6	71.6	70.3	69.7	78.4	71.6	75.6	76.8	77.5	69.6	52.3	54.3	53.6	52.4	51.3	54.8	52.3
12	Mumbai	Hindu Colony - Dadar	49.9	53.6	55.4	59.0	64.7	65.2	64.0	64.7	63.7	65.0	66.2	67.0	60.9	62.5	69.6	74.3	72.1	64.3	59.3	44.2	55.3	56.8	52.3	62.3
13	Mumbai	Matunga - Gandhi Market	70.3	67.6	68.4	69.1	64.5	65.4	65.5	68.0	66.4	67.9	68.7	71.1	70.6	70.3	70.1	71.5	78.1	58.3	60.3	52.1	54.3	56.8	62.3	58.3
14	Mumbai	Kamathipura	53.3	60.2	61.7	60.1	62.0	63.7	63.4	63.1	65.0	65.3	64.0	64.0	60.1	66.7	71.7	77.0	65.6	55.8	53.7	45.7	52.3	53.1	57.5	59.6
15	Mumbai	Malabar Hills	66.7	73.8	78.4	78.1	70.3	66.9	62.8	63.2	69.5	73.8	75.4	78.3	73.2	72.3	71.7	75.1	62.3	59.3	54.3	58.5	53.9	45.3	52.3	61.3
16	Navi Mumbai	Mahape Shil Road, MIDC Mahape	66.3	70.4	76.3	78.6	75.3	77.1	78.4	74.2	72.1	70.5	74.8	76.2	78.6	79.6	80.3	80.9	63.4	57.2	58.9	63.1	60.0	58.6	58.4	45.2
17	Navi Mumbai	APMC Market Vashi	59.6	62.6	65.6	68.4	65.7	63.8	59.6	62.5	67.6	69.7	71.5	73.7	70.8	76.1	77.8	73.3	64.3	68.3	66.8	43.0	56.3	55.3	61.6	64.3
18	Navi Mumbai	Ryan International School, Uran Phata, Nerul	64.6	66.5	68.9	70.4	73.7	70.2	68.7	69.4	67.3	65.8	69.7	70.4	72.4	79.6	79.9	75.6	56.4	52.6	51.4	57.3	59.3	69.2	66.5	73.1
19	Thane	Main Road- Gaondevi Mandir, Naupada	62.9	66.8	64.1	68.8	67.0	64.2	66.1	70.0	69.9	68.9	68.4	70.2	71.6	70.6	72.5	76.7	75.9	66.9	50.1	43.2	36.8	35.4	55.1	55.6
20	Thane	Tembhi Naka	51.8	53.0	55.4	57.4	59.8	61.3	61.1	60.7	59.6	61.7	59.9	60.3	61.7	65.6	65.0	65.1	55.6	51.7	55.3	70.5	57.1	69.8	64.6	41.2
21	Thane	Ghokhale Road	60.1	59.3	51.4	59.5	60.4	62.2	61.9	57.9	61.0	61.4	62.5	61.5	60.9	60.8	60.9	60.3	54.1	68.3	54.9	67.8	57.2	55.0	69.0	56.4
22	Thane	Pokharan - Vartak Nagar	62.4	61.6	65.5	60.1	63.1	64.3	63.9	62.3	67.8	68.1	73.8	74.1	68.4	65.5	64.3	68.8	66.7	62.6	46.8	80.6	38.5	38.1	53.0	58.7
23	Thane	Wagle Estate	52.0	53.8	54.1	54.7	54.8	56.1	56.2	54.7	54.4	54.8	56.7	57.3	62.8	62.7	64.4	61.5	61.3	62.3	62.6	65.1	55.1	51.9	63.7	57.8
24	Pune	Nucleus Mall	54.6	58.9	63.4	65.7	63.7	70.4	68.9	76.8	76.7	78.8	78.1	78.8	79.5	79.2	76.7	73.8	61.6	61.8	51.3	42.9	44.7	41.3	47.9	51.7
25	Pune	Pune University	61.2	61.9	64.7	63.7	65.7	70.4	71.6	75.4	76.9	71.8	70.6	73.9	72.4	69.7	72.1	73.4	60.8	58.6	47.9	44.9	43.6	43.7	44.3	55.7
26	Pune	Swargate	56.7	60.9	65.7	71.9	71.8	73.6	72.4	77.3	75.9	77.6	70.6	73.4	74.9	77.9	76.8	74.1	61.4	60.8	48.9	44.7	45.3	42.3	43.9	53.7

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			Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Tuesday	Tuesday	Tuesday	Tuesday	Tuesday	Tuesday
	City	Location name (details)	06:00-07:00	07:00-08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-00:00	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00	
44	Kalyan	Katemanivali	58.2	61.3	60.1	68.6	70.1	61.0	71.9	70.5	65.4	60.3	73.8	63.2	77.7	75.3	62.3	75.6	66.8	58.3	55.1	49.2	55.3	52.3	53.6	62.2	
45	Kalyan	Birla College	55.9	59.1	62.6	62.9	62.8	58.5	63.0	58.7	60.1	62.7	64.5	65.9	67.3	73.3	70.6	65.6	66.7	55.3	54.3	58.2	52.3	58.3	61.2	64.3	
46	Kalyan	Bail Bazar	73.0	76.3	68.7	71.9	70.0	70.6	67.8	70.6	67.4	66.3	68.7	70.4	76.9	79.2	74.3	68.3	67.5	55.3	58.3	53.3	51.9	48.9	57.2	63.1	
47	Amaravati	Ervin Hospital Square	55.5	58.0	60.1	61.2	62.5	63.9	64.0	62.9	64.6	63.8	64.8	65.5	63.8	66.0	65.1	61.6	59.3	55.6	51.1	48.6	47.8	47.6	48.6	56.1	
48	Amaravati	Budhwara	51.9	55.2	61.8	64.6	65.3	66.6	67.8	64.3	61.9	62.7	65.6	62.8	67.8	69.9	70.0	63.8	59.1	54.1	52.0	50.1	47.5	45.6	48.8	55.9	
49	Amaravati	Rajkamal Chowk	65.0	69.0	70.7	70.8	72.1	71.7	72.1	73.2	74.4	73.8	74.8	74.9	73.3	75.6	75.1	75.8	74.9	70.9	64.5	63.3	60.2	54.7	56.4	63.8	
50	Jalgaon	Near Civil Hospital	62.7	66.3	68.0	69.0	70.3	68.5	69.4	70.7	64.5	70.2	67.2	68.8	72.2	68.8	73.9	66.9	62.4	61.7	53.2	52.7	48.0	54.6	60.2	66.1	
51	Jalgaon	Shivaji Chowk	64.8	71.7	73.7	77.7	76.2	81.6	82.7	80.5	80.7	79.6	79.3	81.9	82.2	82.4	80.9	75.1	69.5	63.8	57.6	55.1	52.2	57.9	63.6	65.3	
52	Jalgaon	Shashtri Tower Chowk	69.2	71.1	77.3	79.7	81.2	82.9	81.1	82.5	81.6	81.1	82.3	84.8	83.8	81.2	80.4	76.4	71.4	65.9	61.5	54.1	52.0	54.1	63.0	64.9	
53	Kolhapur	Rajarampuri chowk	54.3	55.6	59.9	65.9	64.8	65.3	66.6	64.1	65.8	65.9	65.7	69.0	71.1	63.9	76.5	71.3	56.5	53.8	49.4	46.8	37.3	42.1	47.9	49.0	
54	Kolhapur	Papachi Tickti	56.7	64.3	71.9	69.5	72.6	76.1	76.8	69.1	69.4	70.6	71.6	74.6	72.5	72.4	76.4	70.7	62.3	55.6	45.4	42.6	41.8	43.9	46.7	56.7	
55	Kolhapur	Gokhale College	52.6	53.7	63.0	70.3	72.7	72.8	72.0	68.3	66.0	64.1	70.7	73.2	74.7	77.9	67.1	64.6	67.1	62.4	57.4	44.4	46.4	41.2	42.2	51.4	
56	Kolhapur	Dabhorakar Corner	73.2	74.7	79.7	82.5	76.7	82.7	75.7	81.6	74.6	80.3	79.8	79.8	78.9	82.7	80.8	84.3	77.6	75.6	57.1	50.1	44.3	50.3	55.2	57.6	
57	Sangli	Rajwada Chowk	62.7	61.2	72.0	74.7	71.7	70.2	73.5	73.4	71.9	73.6	72.4	74.1	74.8	71.8	68.5	71.3	66.9	59.9	50.2	45.1	44.3	45.1	46.2	53.4	
58	Sangli	Visharambaug	63.2	70.6	72.8	73.8	72.7	73.0	70.6	70.8	73.1	74.9	75.2	76.0	74.8	70.6	66.4	60.1	57.1	55.6	49.0	45.5	43.8	44.4	51.4	58.7	
59	Sangli	Miraj Market	64.0	74.5	74.3	73.0	70.5	74.0	72.3	75.3	73.1	74.3	74.4	72.6	72.4	72.2	69.7	66.1	58.9	54.4	46.8	44.3	44.1	48.1	58.5	51.9	

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			Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Tuesday	Tuesday	Tuesday	Tuesday	Tuesday	Tuesday
	City	Location name (details)	06:00-07:00	07:00-08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-00:00	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00	
60	Mira-Bhyander	Bhakti Vedant Hospital, Tenkar pada	57.6	59.7	61.5	63.0	64.4	70.0	65.4	66.0	61.4	57.0	64.6	70.7	74.4	75.6	76.5	86.0	58.3	55.6	53.7	53.6	51.3	59.3	52.3	54.3	
61	Mira-Bhyander	Golden police Chawki	55.0	55.0	61.4	70.2	72.4	71.2	70.5	70.4	69.3	70.6	72.1	72.0	71.2	69.3	62.3	55.3	71.3	69.3	55.3	52.3	60.0	63.9	59.9	60.8	
62	Mira-Bhyander	Shivaji Chak Kashi meera	65.5	69.3	70.2	77.8	78.0	77.9	81.7	86.1	84.3	78.8	75.2	71.5	72.1	70.0	66.3	65.2	64.3	55.3	52.1	66.3	52.1	55.2	59.3	69.7	
63	Vasai-Virar	Range office, Satwali, Vasai East	61.0	70.2	70.5	72.2	71.8	72.5	72.9	73.7	69.7	70.1	69.9	71.8	73.8	69.3	70.3	68.6	61.1	57.5	50.7	51.4	55.3	58.3	52.9	54.1	
64	Vasai-Virar	Valiv phata, Vasai East	64.8	72.1	63.2	71.4	72.3	71.5	72.0	71.9	73.4	74.7	72.5	72.3	73.1	72.3	70.1	75.8	64.3	68.9	57.8	55.3	52.3	56.7	47.3	53.3	
65	Vasai-Virar	N.B. Estate, Virar West	56.7	58.3	61.8	59.7	69.0	62.4	63.2	63.5	63.2	64.6	66.4	67.5	70.5	72.4	74.1	73.9	65.2	69.2	59.3	55.3	53.1	50.3	52.5	55.3	
66	Ulhasnagar	Gaol Maidan (Commecial & Residentail)	63.6	67.4	68.7	69.1	69.8	69.2	67.4	69.1	68.4	67.2	65.4	67.2	70.1	69.7	74.4	73.4	62.3	56.3	52.3	53.3	64.2	62.1	55.1	64.5	
67	Ulhasnagar	Doodh Naka, Ulhasnagr sector 5	64.9	69.8	70.1	67.8	66.1	62.4	65.7	68.6	65.2	63.4	68.3	70.1	69.7	70.4	75.3	74.6	65.6	61.7	55.3	52.3	57.1	66.1	58.3	68.3	
68	Ulhasnagar	CHM college	64.1	66.4	66.9	65.7	66.8	65.7	69.7	69.9	68.4	70.6	70.3	71.5	69.4	72.5	71.4	66.3	64.3	68.3	54.9	57.6	60.3	64.3	61.3	66.3	
69	Bhiwandi-Nizampur	Dhamankar Naka	64.3	65.8	68.7	67.1	65.8	64.7	69.6	69.8	68.4	67.9	69.8	69.9	72.8	75.4	74.8	69.7	66.8	58.3	55.1	52.3	55.3	62.3	68.3	66.0	
70	Bhiwandi-Nizampur	Indira Gandhi Memorial Hospital	65.4	66.6	68.9	68.2	67.5	66.8	64.3	62.3	61.4	62.8	66.1	68.9	70.4	73.4	71.5	65.3	66.7	62.3	66.5	55.6	52.3	58.3	61.2	64.1	
71	Bhiwandi-Nizampur	Shelar Near Nadi naka	64.5	67.4	68.6	69.3	65.4	66.9	67.4	65.9	63.1	64.8	71.3	75.6	71.4	73.2	71.7	71.4	67.5	55.3	58.4	61.3	63.3	59.3	67.3	70.3	
72	Chandrapur	Gandhi Chowk	59.6	64.3	67.0	69.4	72.9	71.9	72.2	73.2	71.6	71.6	73.3	71.0	79.7	73.9	77.5	77.7	66.0	62.4	57.3	56.9	54.4	56.0	58.3	64.4	
73	Chandrapur	Jatpura Gate	61.7	62.6	64.9	69.0	69.5	70.3	71.2	72.1	71.6	71.8	71.6	72.6	73.9	77.5	78.6	65.7	62.2	61.0	59.3	59.0	51.0	49.3	48.8	56.2	
74	Chandrapur	Warora Naka	56.8	61.7	66.3	73.7	73.6	75.6	78.2	75.9	74.8	73.9	70.4	73.9	72.1	68.4	69.8	67.6	65.8	65.4	64.5	64.2	64.5	63.6	60.8	63.0	

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			Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Tuesday	Tuesday	Tuesday	Tuesday	Tuesday	Tuesday
	City	Location name (details)	06:00-07:00	07:00-08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-00:00	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00		
75	Nanded-Waghala	Dr. Shankarao Chavan Govt. Medical College & Hospital Vishnupuri	49.0	51.0	52.0	53.0	55.0	56.0	61.0	62.0	61.0	63.0	59.0	62.0	62.0	59.0	57.0	54.0	53.0	49.0	46.0	42.0	41.0	42.0	43.0	48.0		
76	Nanded-Waghala	District Court Station Road	48.0	49.0	51.0	51.0	52.0	53.0	54.0	58.0	55.0	56.0	55.0	54.0	53.0	52.0	50.0	50.0	48.0	45.0	42.0	40.0	41.0	42.0	43.0	45.0		
77	Nanded-Waghala	Govt. Polytechnic College	50.0	51.0	52.0	52.0	56.0	59.0	62.0	62.0	60.0	61.0	58.0	60.0	62.0	60.0	56.0	52.0	50.0	48.0	41.0	40.0	41.0	42.0	43.0	46.0		
78	Ahmednagar	KotalaChawk	64.2	65.8	67.1	69.9	70.5	70.4	71.9	69.7	71.8	73.9	71.1	72.8	75.4	71.4	69.8	66.5	65.9	66.1	64.5	62.1	62.7	61.8	63.7	68.9		
79	Ahmednagar	Chitale Road	65.3	66.8	69.7	69.4	71.9	72.8	70.4	68.9	67.1	69.9	70.5	71.8	74.9	73.2	71.4	71.9	66.5	64.8	63.9	64.2	63.7	62.7	63.9	66.1		
80	Ahmednagar	Old Bus Stand	61.2	64.5	65.8	68.8	68.4	69.2	69.0	67.8	68.9	69.4	69.1	70.2	72.8	73.1	71.4	70.1	65.8	66.3	64.5	63.8	61.4	60.4	58.4	59.8		
81	Dhule	Agrasen Chawk	65.2	66.2	67.8	69.8	71.2	72.9	70.2	71.4	72.4	73.9	71.2	72.9	74.5	73.8	71.2	69.8	67.4	65.8	64.8	63.5	62.9	63.1	62.8	63.1		
82	Dhule	Fulwala Chawk	64.2	65.8	66.9	68.4	69.2	71.5	72.5	73.2	71.4	71.6	75.1	74.5	74.1	73.5	72.9	71.9	68.9	67.8	66.1	62.7	61.2	60.4	59.7	60.2		
83	Dhule	Santoshi Mata Chawk	63.7	64.9	69.8	70.2	71.5	72.9	71.4	70.9	72.9	71.5	72.8	73.5	74.9	75.4	72.6	72.1	70.2	69.8	68.4	66.5	64.5	63.8	62.9	63.1		
84	Malegaon	Mosampul	67.5	69.8	70.1	72.8	73.9	73.1	72.8	70.4	71.9	72.8	71.4	71.9	74.8	73.2	72.9	71.4	70.2	69.5	69.1	68.4	67.1	66.5	65.8	66.2		
85	Malegaon	Central Bus Stand	68.2	70.1	71.4	73.2	74.5	73.1	69.5	68.9	69.8	70.4	72.4	73.9	74.5	73.8	72.8	71.5	69.5	67.4	65.2	64.1	63.4	65.2	66.1	66.5		
86	Malegaon	Malegaon Camp	66.2	67.4	68.5	69.7	71.4	72.8	71.8	71.4	70.9	69.9	72.4	74.5	76.5	75.1	74.3	73.6	71.2	68.9	65.4	64.5	62.3	63.4	65.8	66.1		
87	Pimpri-Chinchwad	Chafekar Chowk	59.3	61.4	60.8	67.3	69.8	65.4	70.6	72.3	71.6	74.3	73.2	76.4	74.2	69.8	71.8	73.4	60.1	57.3	46.9	43.5	44.1	44.0	48.9	50.7		
88	Pimpri-Chinchwad	Dange Chowk	61.2	64.3	63.7	71.2	67.8	68.4	71.6	70.4	73.6	72.1	74.9	74.2	71.6	75.9	73.6	70.2	62.7	65.3	54.3	47.3	44.9	44.1	45.0	53.2		
89	Pimpri-Chinchwad	Bhosari	59.7	60.4	62.1	64.9	63.7	73.2	71.6	70.3	71.6	74.9	72.4	71.4	73.6	70.4	70.9	67.2	59.8	60.2	49.7	42.3	43.7	43.7	47.6	54.7		

			23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	23-Dec-19	24-Dec-19	24-Dec-19	24-Dec-19	24-Dec-19	24-Dec-19	24-Dec-19
			Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Monday	Tuesday	Tuesday	Tuesday	Tuesday	Tuesday	Tuesday
	City	Location name (details)	06:00-07:00	07:00-08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-00:00	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00	
90	Parbhani	Shaniwar Bazar	48.0	51.0	52.0	53.0	55.0	60.0	62.0	61.0	59.0	60.0	58.0	57.0	62.0	61.0	60.0	55.0	51.0	49.0	42.0	43.0	40.0	42.0	42.0	47.0	
91	Parbhani	Railway Station Court	51.0	53.0	55.0	51.0	56.0	62.0	61.0	60.0	61.0	59.0	62.0	61.0	60.0	58.0	56.0	51.0	48.0	45.0	42.0	42.0	40.0	41.0	43.0	46.0	
92	Parbhani	Civil Hospital	49.0	52.0	53.0	56.0	58.0	62.0	61.0	62.0	61.0	60.0	58.0	63.0	61.0	59.0	57.0	52.0	49.0	46.0	42.0	41.0	40.0	41.0	42.0	44.0	
93	Latur	Shahu College	50.0	51.0	53.0	61.0	62.0	63.0	64.0	62.0	62.0	59.0	58.0	62.0	61.0	58.0	56.0	52.0	50.0	47.0	43.0	40.0	41.0	42.0	40.0	45.0	
94	Latur	Civil Hospital	47.0	49.0	51.0	52.0	51.0	53.0	55.0	52.0	56.0	54.0	53.0	57.0	53.0	52.0	52.0	50.0	48.0	42.0	39.0	38.0	40.0	40.0	42.0	44.0	
95	Latur	CJM Court	49.0	51.0	53.0	55.0	56.0	55.0	52.0	54.0	56.0	55.0	55.0	57.0	53.0	51.0	50.0	49.0	48.0	45.0	42.0	39.0	40.0	41.0	41.0	43.0	
96	Akola	Collector Office	53.3	55.1	67.4	71.5	72.7	72.3	72.2	73.9	73.7	74.0	76.2	71.0	70.5	71.2	69.0	67.2	55.6	53.1	51.6	45.4	44.3	43.5	45.8	54.4	
97	Akola	Civil line Chowk / Ratanlal plot	65.7	65.6	69.4	71.4	72.5	72.3	72.8	73.5	73.4	72.8	73.6	73.8	72.5	72.9	72.9	71.1	55.0	49.2	46.3	45.4	45.7	45.1	45.5	52.7	
98	Akola	City Kotawali Chowk near police station	66.9	68.7	71.1	74.6	74.7	74.1	74.4	72.1	72.5	72.9	75.1	73.8	73.7	73.1	73.3	72.0	61.1	54.6	51.7	47.5	47.2	45.9	46.2	57.6	
99	Solapur	Balives	62.3	59.4	70.6	65.9	77.3	73.2	69.3	74.3	66.5	71.2	74.8	79.6	76.4	70.4	74.9	71.3	65.3	62.5	52.4	56.3	47.2	43.3	49.1	56.2	
100	Solapur	Bijapur Road	59.8	65.3	71.5	73.6	65.8	71.1	75.8	68.9	70.4	76.5	72.9	73.5	77.3	72.4	71.9	74.0	64.5	62.1	53.6	48.7	43.5	45.9	51.2	53.7	
101	Solapur	Ashok Chowk	65.1	71.3	74.8	70.3	65.8	74.1	63.5	72.4	70.4	69.8	71.6	78.3	74.6	71.9	74.6	76.5	68.4	59.7	58.9	48.6	44.1	46.1	45.1	59.4	
102	Panvel	Old Panvel, Panvel corporation building	71.6	72.8	73.6	74.5	72.7	72.0	71.6	72.8	72.3	74.5	72.7	71.9	57.2	66.3	71.1	68.5	69.2	66.0	63.5	58.2	55.4	50.2	56.8	61.9	
103	Panvel	Khanda colony	75.5	72.9	68.5	72.3	70.6	75.3	66.6	71.4	75.6	75.7	74.0	72.7	73.7	74.3	70.0	62.3	62.8	56.5	52.4	46.3	44.7	44.3	46.6	57.3	
104	Panvel	Utsav chowk, Kharghar	70.4	62.0	65.1	65.5	69.1	51.6	64.0	66.3	64.2	64.8	66.4	73.6	70.8	70.4	68.3	59.6	66.1	64.0	60.3	57.5	53.2	47.6	52.6	54.9	