# REPORT ON MONITORING OF AMBIENT NOISE POLLUTION DURING GANESH FESTIVAL, 2016





MAHARASHTRA POLLUTION CONTROL BOARD
Kalpataru Point, 3rd Floor, Sion (East), Mumbai-400011
Website: <a href="https://www.mpcb.gov.in">www.mpcb.gov.in</a>
September, 2016

## **Foreword**

## **Contents**

ABBR	REVIATIONS	4
INTR	ODUCTION	5
A RE	VIEW OF NOISE DESCRIPTORS	5
METH	HODOLOGY OF THE PROJECT	6
	JLTS	
	Mumbai	
1. 2.	Navi Mumbai	
2. 3.	THANE	
3. 4.	PUNE	
т. 5.	NASHIK	
6.	AURANGABAD	
7.	NAGPUR. 14	
8.	Kalyan	
9.	AMRAVATI	
10.	JALGAON	
11.	KOLHAPUR	
12.	SANGLI	
13.	MIRA - BHAYANDER	
14.	Vasai - Virar	
	ULHASNAGAR	
16.	BHIWANDI - NIZAMPUR	
17.	CHANDRAPUR	
18.	Nanded - Waghala	
	AHMEDNAGAR	
	DHULE	
	MALEGAON	
	PIMPRI - CHINCHWAD	
	PRABHANI	
	LATUR	
	SOLAPUR	
	PARATIVE STUDY OF NOISE LEVELS3	
CON	CLUSION3	6
DEFI	NITIONS3	7
ANNE	EXURE I - DETAILED LIST OF LOCATIONS4	4
ANNE	EXURE II - SOUND LEVEL METER5	0
	EXURE III - NOISE POLLUTION (R & C) RULES, 2000 AMENDMENT DT. 21 <sup>ST</sup>	
ANNI SEPT MAH	EXURE IV - HOURLY NOISE LEVELS ON 5 <sup>th</sup> , 6 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> & 15 <sup>th</sup> EMBER 2016 DURING GANESH FESTIVAL AT DIFFERENT LOCATIONS IN ARASHTRA5	4
	EXURE V - MAP OF ALL 26 MUNICIPAL COORPORATION WITH RESPECTIVE	_

## **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

 $L_{Aeq} \hspace{1.5cm} \hbox{Equivalent continuous A-weighted sound pressure level (dB)} \\$ 

L<sub>max</sub> Maximum sound pressure level (dB)

L<sub>min</sub> Minimum sound pressure level (dB)

SPL Sound Pressure Level

#### Introduction

Ganesh Chaturthi is a ten-day Hindu festival celebrated to honour the elephant-headed God Ganesha's birthday. He is the younger son of Lord Shiva and Goddess Parvati. Ganesha is known by 108 different names and is the Lord of arts and sciences and the deva of wisdom. He is honoured at the start of rituals and ceremonies as he's considered the God of beginnings. He's widely and dearly referred to as Ganapati or Vinayaka.

There are two different versions about Ganesha's birth. One has it that Goddess Parvati created Ganesha out of dirt off her body while having a bath and set him to guard her door while she finishes her bath. Shiva who has gone out, returned at that time, but as Ganesha didn't know of him, stopped him from entering. An angry Shiva severed the head of Ganesha after a combat between the two. Parvati was enraged and Shiva promised Ganesha will live again. The devas who went in search of a head facing north of a dead person could manage only the head of an elephant. Shiva fixed the elephant's head on the child and brought him back to life. The other legend has it that Ganesha was created by Shiva and Parvati on request of the Devas, to be a vighnakartaa (obstacle-creator) in the path of rakshasas (demonic beings), and a vighnahartaa (obstacle-averter) to help the Devas.This year, September 5<sup>th</sup> marks the beginning of this festival which is also called as Vinayaka Chaturthi.

Maharashtra Pollution Control Board have been carrying out study of the ambient noise levels in the state of Maharshtra during the period of Ganesh Festial for more than 9 years as a continous process. Noise monitoring was carried out at 132 locations from 26 Municipal Corporation of Maharashtra for 5 days period during Ganesh Festival i.e. on  $5^{th}$ ,  $6^{th}$ ,  $9^{th}$ ,  $10^{th}$  &  $15^{th}$  September 2016 from 6 PM to 12 AM 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  $\mu$ Pa. Thus the sound pressure level in dB = 20 log10 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 ( $L_{\rm eq}$ ) 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

Awar Cada	Cata manual Ana	Limits in dB(A) L <sub>eq</sub>		
Area Code	Category of Area	Day time	Night time	
А	Industrial area	75	70	
В	Commercial area	65	55	
С	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 during the period of Ganesh Festivals for 132 locations which is covered under 26 Municipal Corporation all over Maharashtra. The monitoring was carried out for 5 days considering the noise that generate during the festival. 6 hours noise monitoring was carried out from 6 PM to 12 AM on  $5^{th}$ ,  $6^{th}$ ,  $9^{th}$ ,  $10^{th}$  &  $15^{th}$  September 2016. The noise monitoring was carried out using calibrated Sound Level Meters (Type II) kept at the fast response mode keeping in view the quickly changing nature of noise levels, and using 'A' filter.

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 in Maharashtra during Ganesh Festival: 2016.

Sr.	Municipal Corporation	Number of locations
1.	Mumbai	25
2.	Navi Mumbai	05
3.	Thane	09
4.	Pune	20
5.	Nashik	05

Sr.	Municipal Corporation	Number of locations
6.	Aurangabad	05
7.	Nagpur	05
8.	Kalyan	03
9.	Amravati	03
10.	Jalgaon	03
11.	Kolhapur	03
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.	Pimpiri – Chinchwad	03
23.	Parbhani	03
24.	Latur	03
25.	Akola	03
26.	Solapur	04
	Total No. of stations	132

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

#### **Results**

Hourly Noise Levels on  $5^{th}$ ,  $6^{th}$ ,  $9^{th}$ ,  $10^{th}$  &  $15^{th}$  September 2016 during Ganesh Festival 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  $L_{\text{eq}}$  has been calculated to compare the results obtained from various locations.

#### 1. Mumbai

In Mumbai a total of 25 location where monitored. The  $L_{eq}$  noise level on all five days monitored exceeded the limit. The high highest noise level of 89.9 dB(A) was observed at Chembur east on  $15^{th}$  September which is the last day of visarjan. The increase in noise level was due to the proceedings of visarjan.

Table 6.1: Equivalent Continuous (L<sub>eq</sub>) dB(A) Noise Levels in Mumbai

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Andheri	76.1	76.6	70.6	73.3	76.0
Bandra	76.6	82.2	70.8	79.7	74.2
Bhandup	78.0	77.4	77.1	78.8	77.4
Borivali	73.3	79.6	80.8	75.6	74.6
Byculla	79.1	74.4	74.3	68.6	79.7
Chembur (E)	78.2	81.0	77.4	78.1	89.9
Chembur (W)	74.2	70.6	63.3	80.6	81.5
Chinchpokali (E)	77.5	74.3	71.9	80.1	84.4
Chinchpokali (W)	75.7	76.8	76.5	76.2	82.8
Dadar (E)	64.7	81.2	68.6	76.9	70.0
Dadar (W)	70.3	81.9	65.7	68.1	86.3
Elphinstone	76.5	82.1	75.2	85.8	77.7
Ghatkopar	73.0	83.0	70.0	76.9	76.7
Girgaon Chowpati	62.9	82.8	68.5	73.1	74.6
<b>Grant Road</b>	78.5	77.6	76.0	81.5	75.3
Juhu Chowpati	70.8	74.7	62.8	83.5	74.7
Kandivali (E)	73.8	75.6	74.6	79.4	82.0
Kandivali (W)	81.5	75.9	76.3	77.1	75.1
Khar	69.9	75.7	76.7	76.0	81.8
Mulund	67.6	73.3	74.3	78.8	72.4
Mumbai Central	76.4	78.0	78.0	76.7	76.5
Parel	69.5	79.7	74.7	75.9	72.2
Santacruz (E)	70.2	81.1	64.5	74.3	75.7
Vikhroli	75.4	79.7	75.2	76.6	81.5
Wadala	74.4	76.2	75.0	69.9	70.5

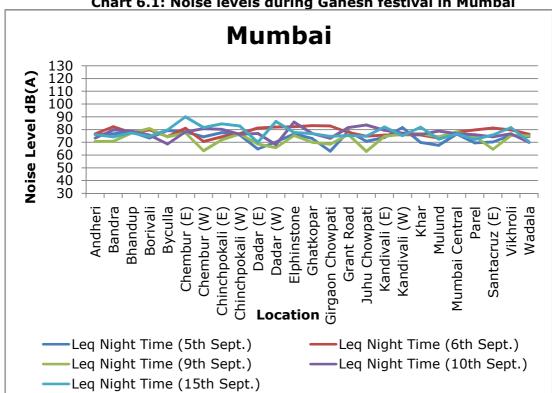


Chart 6.1: Noise levels during Ganesh festival in Mumbai

#### 2. Navi Mumbai

Five locations were monitored in Navi Mumbai. The highest noise level was observed at Kopar Khairane - Sector-10, D-Mart Main Road with 80.8 dB(A) on 15<sup>th</sup> September. The noise level was below 80 dB(A) on other days of noise monitroirng.

Table 6.2: Equivalent Continuous  $(L_{eq})$  dB(A) Noise Levels in Navi Mumbai

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Airoli	68.6	69.3	70.2	78.3	74.9
<b>CBD Belapur</b>	73.7	75.4	61.2	72.5	69.5
Kopar Khairane	75.7	75.7	79.2	75.9	80.8
Uran	73.6	73.7	70.4	71.1	75.7
Vashi	67.8	74.4	70.1	67.2	73.9

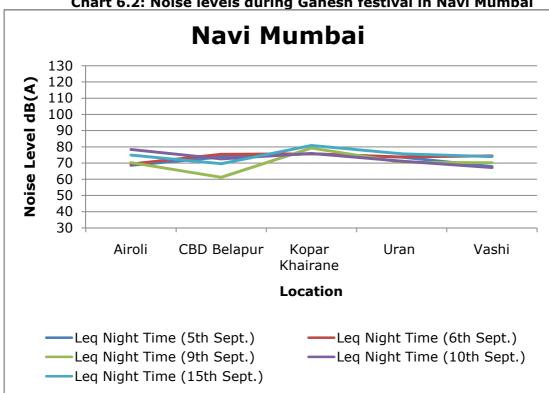


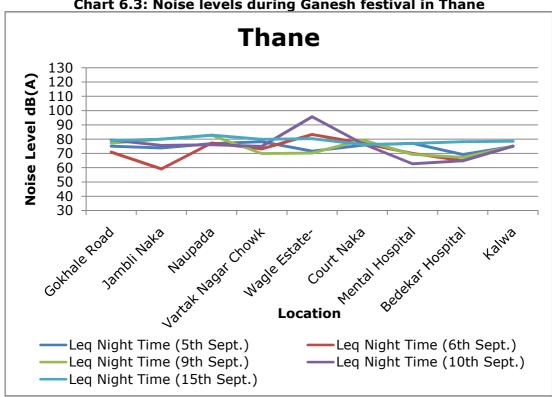
Chart 6.2: Noise levels during Ganesh festival in Navi Mumbai

## 3. Thane

The maximum noise level during night time was observed at Wagle Estate- Raila Devi Lake immersion Point with 95.6 dB(A) on 10<sup>th</sup> September which was mainly caused by the crowd gadered for visarjan.

Table 6.3: Equivalent Continuous  $(L_{eq})$  dB(A), Noise Levels in Thane

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
<b>Gokhale Road</b>	75.0	70.9	77.2	79.4	78.9
Jambli Naka	73.8	59.1	80.0	75.6	80.0
Naupada	76.8	77.3	82.7	76.0	82.8
Vartak Nagar Chowk	78.2	73.1	69.9	74.9	79.8
Wagle Estate-	71.5	83.2	70.2	95.6	80.3
Court Naka	75.7	77.2	79.4	76.8	76.2
Mental Hospital	77.0	70.0	69.3	62.7	76.9
Bedekar Hospital	69.2	64.8	67.2	64.8	78.2
Kalwa	74.9	75.1	75.0	75.0	78.5



#### Chart 6.3: Noise levels during Ganesh festival in Thane

#### 4. Pune

The highest noise level of 109.3 dB(A) was observed at Mahatma Phule Madai on 5<sup>th</sup> September. The noise levels were increased mainly due to the sound made while taking idols to the pandals which also creates traffic congestion.

Table 6.4: Equivalent Continuous (Leq) dB(A), Noise Levels in Pune

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Shivaji Nagar	70.4	70.4	75.6	78.3	86.0
Karve Road	78.4	89.9	86.2	80.5	94.5
Swar Gate	78.2	78.3	89.7	91.7	90.0
Satara Road	78.0	78.0	90.5	83.8	90.8
Shaniwar Peth	84.2	78.2	74.3	78.6	91.9
Yerawada	81.0	82.4	89.8	85.0	87.1
Laxmi Road	85.4	76.5	80.8	78.1	98.6
Kothrud	73.9	79.6	82.7	76.2	94.1
Mahatma Phule Madai	109.3	82.4	85.0	84.4	103.8
Sarus Baug	69.4	70.4	78.5	80.4	84.4
Hadapsar	83.8	84.4	86.6	86.0	89.6
Parvati	75.3	77.3	89.9	78.4	91.0
Koregaon Park	71.2	75.2	82.6	78.4	78.5
Khadaki	77.7	70.5	75.0	80.1	87.9

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
M G Road	80.9	81.5	82.6	84.0	85.4
University Road Chowk	75.2	78.7	89.5	87.5	76.9
Aundh Parihar Chawk	74.4	67.7	79.7	74.1	101.0
Thergaon	79.7	77.0	79.1	79.2	82.4
Navi Sangavi	74.4	70.1	76.2	77.9	77.3
VishrantWadi	74.8	77.5	78.5	79.6	89.0

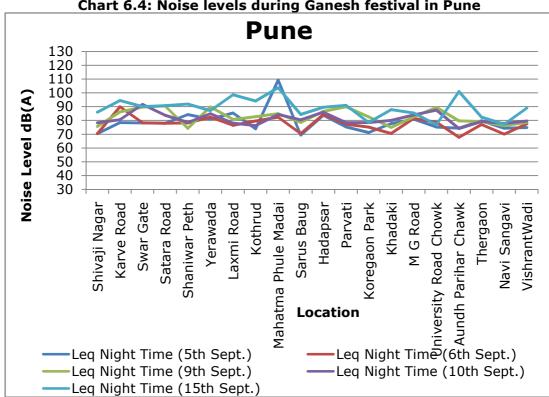


Chart 6.4: Noise levels during Ganesh festival in Pune

#### 5. Nashik

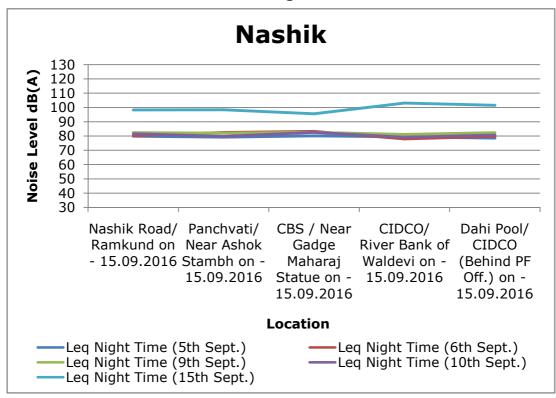
The highest noise level in nashik was observed at River Bank of Waldevi with 103.1 dB(A) on 15<sup>th</sup> September. It is one of an important spot for visarjan and the increase in noise level was mainly due to the crowd gatherings for visarjan.

Table 6.5: Equivalent Continuous (L<sub>Aeq</sub>)dB(A), Noise Levels in Nashik

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Nashik Road/ Ramkund on - 15.09.2016	79.9	80.2	82.3	81.6	98.2
Panchvati/ Near Ashok Stambh on - 15.09.2016	79.2	82.4	82.0	79.7	98.4

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	
CBS / Near Gadge Maharaj Statue on - 15.09.2016	80.1	83.2	82.6	82.5	95.5
CIDCO/ River Bank of Waldevi on - 15.09.2016	79.4	78.0	81.1	79.1	103.1
Dahi Pool/ CIDCO (Behind PF Off.) on - 15.09.2016	78.5	79.7	82.3	80.6	101.5

Chart 6.5: Noise levels during Ganesh festival in Nashik



#### 6. Aurangabad

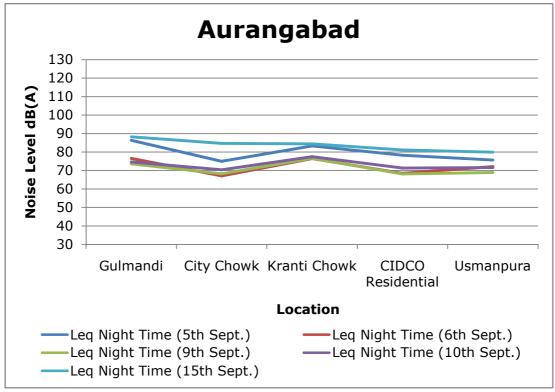
In Aurangabad the noise level was observed high on the last day of monitoring that is on 15<sup>th</sup> September. The highest noise level of 88.2 db(A) was observed at Gulmandi on the same day of noise monitoring.

Table 6.6: Equivalent Continuous  $(L_{eq})$  dB(A), Noise Levels in Aurangabad

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	
Gulmandi	86.3	76.5	73.6	74.6	88.2
City Chowk	75.0	67.1	68.2	70.4	84.7
Kranti Chowk	83.3	76.4	76.6	77.5	84.4

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	
CIDCO Residential	78.3	68.5	68.1	71.3	81.1
Usmanpura	75.7	72.1	68.9	71.6	79.9

Chart 6.6: Noise levels during Ganesh festival in Aurangabad



#### 7. Nagpur

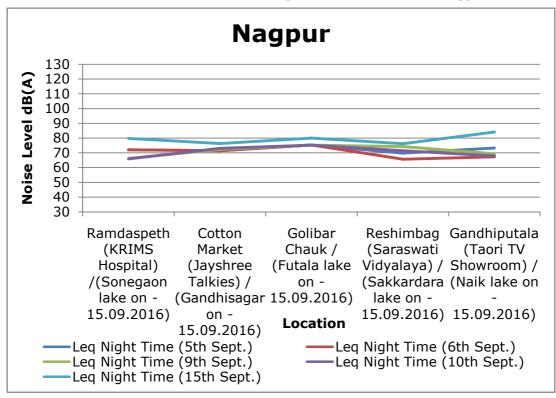
In Nagpur also the noise level was high on  $15^{th}$  September. The highest noise level was observed at Naik lake with 84.1 dB(A).

Table 6.7: Equivalent Continuous  $(L_{eq})$  dB(A), Noise Levels in Nagpur

Location	L <sub>ea</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>ea</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>ea</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>ea</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>ea</sub> Night Time (15 <sup>th</sup> Sept.)
Ramdaspeth (KRIMS Hospital) /(Sonegaon lake on - 15.09.2016)	72.1	72.1	66.2	65.9	79.8
Cotton Market (Jayshree Talkies) / (Gandhisagar on - 15.09.2016)	71.4	71.4	72.3	73.0	76.3
Golibar Chauk / (Futala lake on - 15.09.2016)	75.3	75.3	75.2	75.2	80.0

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Reshimbag (Saraswati Vidyalaya) / (Sakkardara lake on - 15.09.2016)	69.8	65.7	74.2	71.4	76.2
Gandhiputala (Taori TV Showroom) / (Naik lake on - 15.09.2016)	73.2	67.3	69.3	67.9	84.1

Chart 6.7: Noise levels during Ganesh festival in Nagpur



#### 8. Kalyan

In kalyan the highest noise level was observed at Khadakpada Chawk on  $15^{th}$  September with 80.5 dB(A). The increase in noise level was due to the usage of loud speakers in mandal and during possession.

Table 6.8: Equivalent Continuous (Lea) dB(A), Noise Levels in Kalyan

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>ea</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>ea</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Khadakpada Chawk	72.8	70.2	77.8	80.4	80.5
Shivaji Chawk	78.8	79.5	78.0	76.9	72.5
Ulhasnagar Station	76.5	79.2	77.3	79.6	77.9

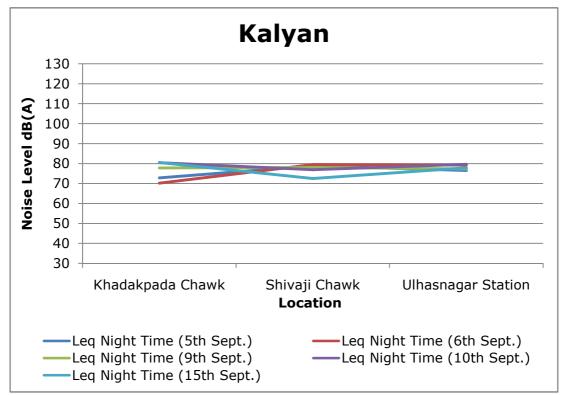


Chart 6.8: Noise levels during Ganesh festival in Kalyan

#### 9. Amravati

The maximum noise level in Amravati was observed at Rajkamal Square of  $78.7~\mathrm{dB}(A)$  on  $5^{th}$  September.

Table 6.9: Equivalent Continuous ( $L_{eq}$ ) dB(A), Noise Levels in Amravati

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Bhudhwara	63.8	66.2	67.0	70.1	68.9
Rajkamal Square	78.7	76.1	76.1	76.2	74.6
Irvin Hospital Square	74.9	74.9	75.0	75.0	75.0

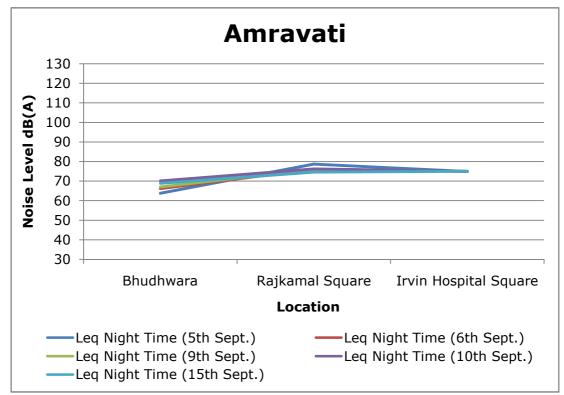


Chart 6.9: Noise levels during Ganesh festival in Amravati

## 10. Jalgaon

The highest noise level was observed at Shashtri Tower Chowk with 91.8 dB(A) on 15<sup>th</sup> September which was caused due gto the possession of idols for visaarjan.

Table 6.10: Ed	ıuivalent Cor	ntinuous (L <sub>eq</sub>	) dB(A), Nois	se Levels in 3	lalgaon
•					

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Subhash Chowk	73.0	69.8	73.7	72.8	79.2
Shashtri Tower Chowk	85.6	76.9	78.1	78.2	91.8
Shanipeth Police Station	74.8	75.0	74.8	74.9	74.9

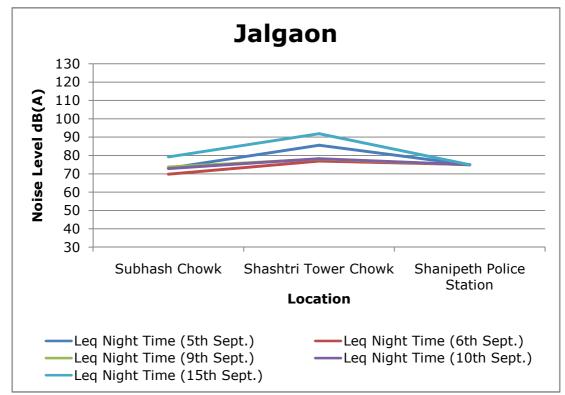


Chart 6.10: Noise levels during Ganesh festival in Jalgaon

## 11. Kolhapur

In Kolhapur also the last day of Ganesh fetival was found to be noisy. The maximum noise level was observed at Rajaram Puri with 85.9 dB(A)

Table 6.11: Equivalent Continuous (L<sub>eq</sub>) dB(A), Noise Levels in Kolhapur

Location	L <sub>ea</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>ea</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>ea</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Rajaram Puri	76.7	75.6	77.1	84.3	85.9
Mahalaxmi Mandir	79.6	76.5	74.7	80.3	85.4
Khas Baug Maidan	80.9	81.7	80.3	83.4	83.9

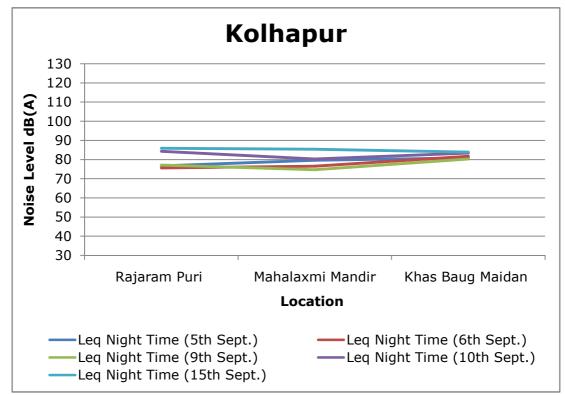


Chart 6.11: Noise levels during Ganesh festival in Kolhapur

## 12. Sangli

In the three location monitored in Sangli area, Miraj market was found to have high noise level. The highest noise level was observed at the same on 15<sup>th</sup> September with 92.6 dB(A).

Table 6.12: Equivalent Continuous ( $L_{eq}$ ) dB(A), Noise Levels in Sangli

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Miraj Market	76.9	69.4	67.8	70.7	92.6
Vishram Baug Chawk	73.4	68.5	67.9	69.6	72.8
Gandhi Putala (Ganpati Peth)	76.5	75.5	75.7	75.9	76.7

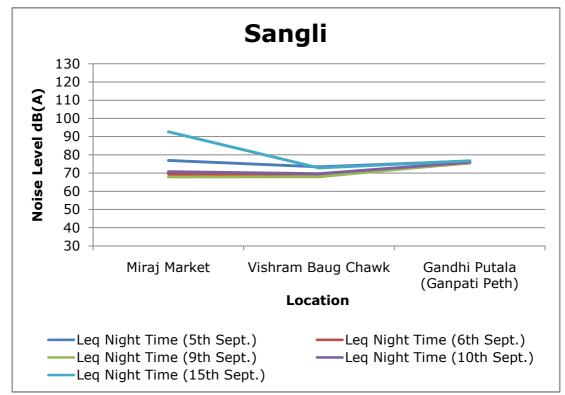


Chart 6.12: Noise levels during Ganesh festival in Sangli

## 13. Mira - Bhayander

In Mira – Bhayander, the highest noise level was observed on the second day of noise monitoring at Shivaji Chawk Kashi meera with 78.1 dB(A).

Table 6.13: Equivalent Continuous ( $L_{eq}$ ) dB(A) Noise Levels in Mira - Bhayander

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Bhakti Vedant Hospital, Tenkar pada	66.3	76.0	73.4	59.2	74.3
Golden police Chawki	71.0	70.6	73.6	70.5	75.5
Shivaji Chak Kashi meera	77.4	78.1	75.9	76.2	76.4

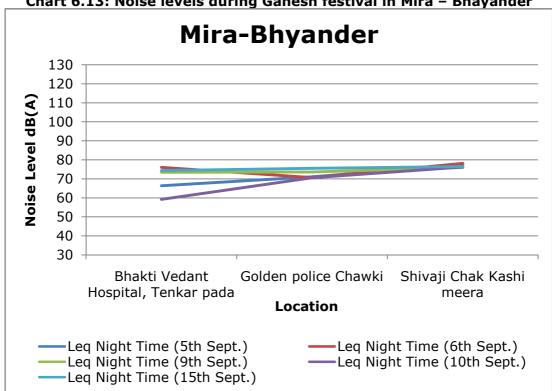


Chart 6.13: Noise levels during Ganesh festival in Mira - Bhayander

#### 14. Vasai - Virar

In Vasai - Virar, the maximum noise level was observed at N.B. Estate, Virar West on 15<sup>th</sup> September night time with 80.1 dB(A).

Table 6.14: Equivalent Continuous (Leq) dB(A) Noise Levels in Vasai - Virar

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Range office, Satwali, Vasai East	75.5	73.3	74.2	74.1	75.1
Valiv phata, Vasai East	78.5	73.1	79.1	79.7	66.6
N.B. Estate, Virar West	77.5	77.9	77.5	78.4	80.1

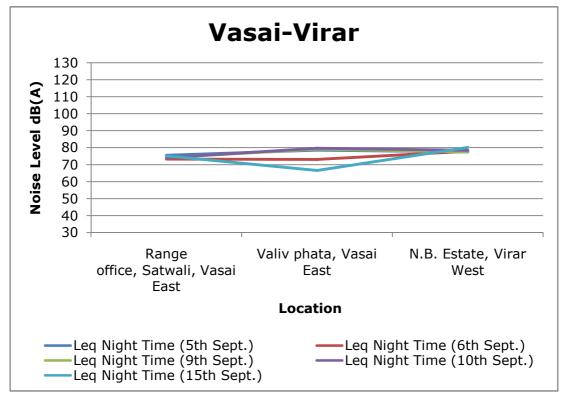


Chart 6.14: Noise levels during Ganesh festival in Vasai - Virar

## 15. Ulhasnagar

The maximum noise level was observed at CHM College with 80.0 dB(A) on  $10^{\text{th}}$  September which was mainly caused by the traffic conjection of the crowd gadered for visarjan.

Table 6.15: Equivalent Continuous  $(L_{eq})$  dB(A), Noise Levels in Ulhasnagar

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
<b>Gaol Maidan</b>	73.8	70.9	66.1	64.5	66.3
Doodh Naka, Ulhasnagr sector 5	71.0	79.0	74.6	66.0	71.5
CHM college	75.7	77.7	77.0	80.0	75.0

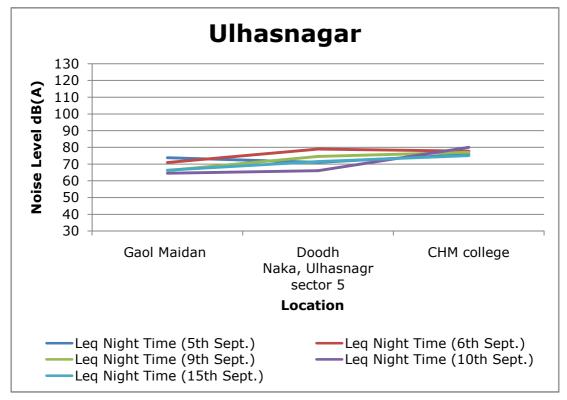


Chart 6.15: Noise levels during Ganesh festival in Ulhasnagar

## 16. Bhiwandi - Nizampur

The highest noise level of 83.9~dB(A) was observed both at Dhamankar Naka on  $15^{th}$  September.

Table 6.16: Equivalent Continuous ( $L_{eq}$ ) dB(A), Noise Levels in Bhiwandi - Nizampur

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Dhamankar Naka	69.8	83.7	78.7	68.3	83.9
Indira Gandhi Memorial Hospital	67.0	81.3	78.6	65.0	60.2
Shelar Near Nadi naka	76.2	75.7	81.1	75.0	77.3

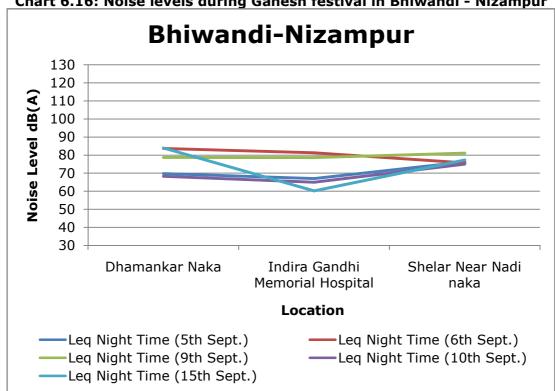


Chart 6.16: Noise levels during Ganesh festival in Bhiwandi - Nizampur

## 17. Chandrapur

The highest noise level of 96.9 dB(A) was observed at Gandhi Square on the last day of visarjan which was caused mainly due to the traffic congestion.

Table 6.17: Equivalent Continuous (Leq) dB(A), Noise Levels in Chandrapur

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Govt. Hospital	69.9	66.4	70.0	68.7	84.6
Gandhi Square	77.8	73.8	76.2	75.9	96.9
Jatpura Gate	77.7	78.0	78.9	82.4	89.0

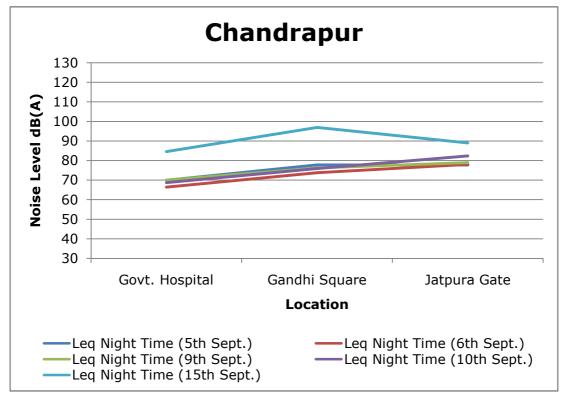


Chart 6.17: Noise levels during Ganesh festival in Chandrapur

## 18. Nanded - Waghala

In Nanded – Waghala, the maximum noise level of  $85.7~\mathrm{dB}(A)$  was observed on  $15^\mathrm{th}$  Sepetember at Ganesh Nagar, Municipal Corpartion.

Table 6.18: Equivalent Continuous ( $L_{eq}$ ) dB(A), Noise Levels in Nanded – Waghala

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Ganesh Nagar, Municipal Corpartion	85.7	70.7	70.8	73.0	77.0
Shivaji Nagar	81.3	69.9	70.2	72.5	80.9
Shree Guru Govindsing Govt. Medical College & Hospital, Shivaji Putala	75.2	75.6	75.5	75.9	76.9

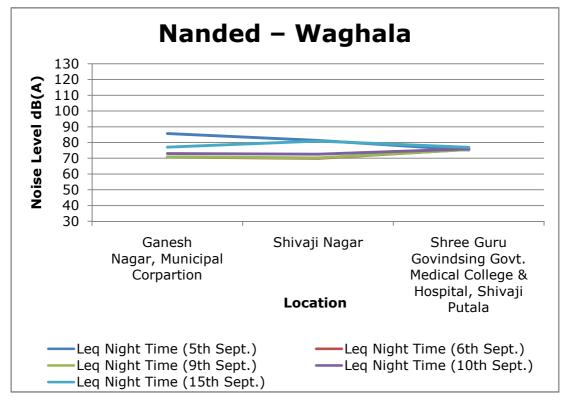


Chart 6.18: Noise levels during Ganesh festival in Nanded - Waghala

## 19. Ahmednagar

In Ahmednagar also the noise level was high on  $15^{th}$  September. The highest noise level was observed at Chitale road with 101.7 dB(A).

Table 6.19: Equivalent Continuous ( $L_{eq}$ ) dB(A), Noise Levels in Ahmednagar

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)		
Kotala Chawk	79.5	82.1	77.8	77.4	100.7
<b>Chitale Road</b>	84.8	81.3	77.1	78.0	101.7
Old Bus Stand	81.5	82.2	79.0	78.6	100.6

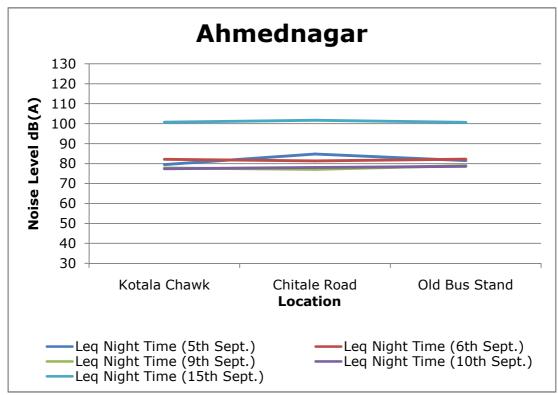


Chart 6.19: Noise levels during Ganesh festival in Ahmednagar

#### 20. Dhule

In Dhule the highest noise level was observed at Fulwala Chawk on  $5^{th}$  September with 90.6 dB(A).

Table 6.20: Equivalent Continuous  $(L_{eq})$  dB(A), Noise Levels in Dhule

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Agrasen Chawk	69.7	64.9	69.1	74.0	82.1
Fulwala Chawk	90.6	79.0	76.0	73.8	89.2
Santoshi Mata Chawk	82.2	76.6	75.5	76.2	83.0

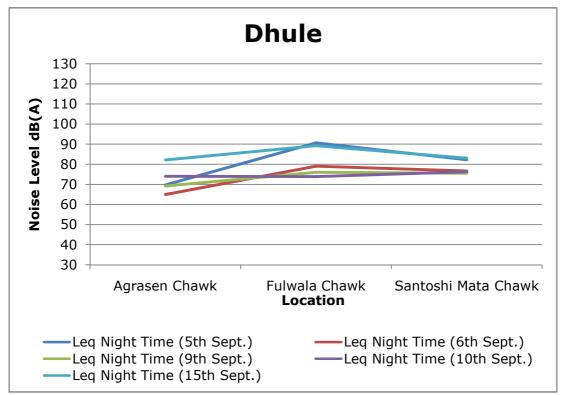


Chart 6.20: Noise levels during Ganesh festival in Dhule

## 21. Malegaon

The maximum noise level in Malegaon was observed at Satana Naka of 86 dB(A) on  $15^{\rm th}$  September.

Table 6.21: Equivalent Continuous  $(L_{eq})$  dB(A), Noise Levels in Malegaon

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Mosampur	85.6	74.7	79.2	79.5	84.9
Satana Naka	81.4	75.7	77.7	74.0	86.0
Malegaon Camp	79.9	79.8	81.4	82.9	82.7

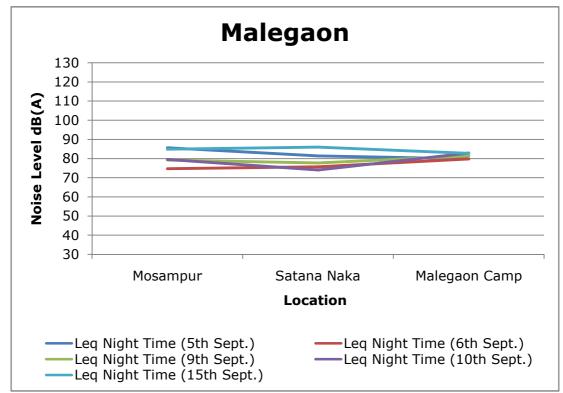


Chart 6.21: Noise levels during Ganesh festival in Malegaon

## 22. Pimpri - Chinchwad

In Pimpri - Chinchwad a total of 3 location where monitored. The highest noise level was observed at Shanthi Nagar with 104.4 dB(A) on 15<sup>th</sup> September.

Table 6.22: Equivalent Continuous ( $L_{eq}$ ) dB(A) Noise Levels in Pimpri - Chinchwad

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Chaphekar Chawk, Chinchwad Gaon	82.8	80.4	75.0	80.1	94.2
Shanti Nagar (Pimri)	71.7	73.8	79.4	75.2	104.4
<b>Bosari Gaonthan</b>	76.3	84.7	82.5	85.7	88.6

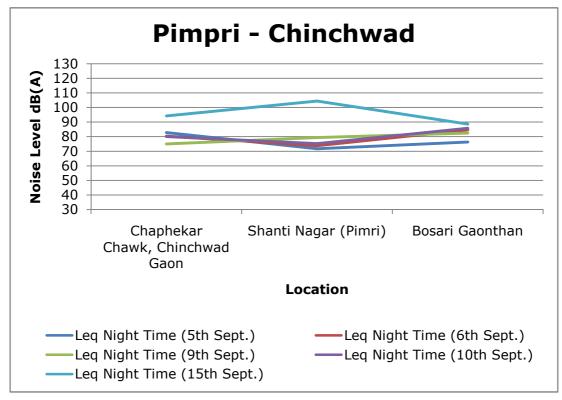


Chart 6.22: Noise levels during Ganesh festival in Pimpri - Chinchwad

#### 23. Prabhani

In Prabhani, the highest noise level was observed at Shivaji Chawk with 84.7 dB(A) on  $27^{\text{th}}$  September. The noise level during night time exceeded the permissible limit. The increase in noise level is due to the pandals and also traffic caused due to the proceedings of visarjan.

Table 6.23: Equivalent Continuous (L<sub>eq</sub>) dB(A) Noise Levels in Prabhani

L<sub>eq</sub> L<sub>eq</sub> L<sub>eq</sub> L<sub>eq</sub> L<sub>eq</sub> L<sub>eq</sub>

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	
Shivaji Chawk	80.6	74.3	72.6	73.2	84.7
Shivaji Maharaj Putala	78.2	75.6	74.4	74.3	82.1
Raigad Corner	76.1	76.0	76.3	76.4	79.0

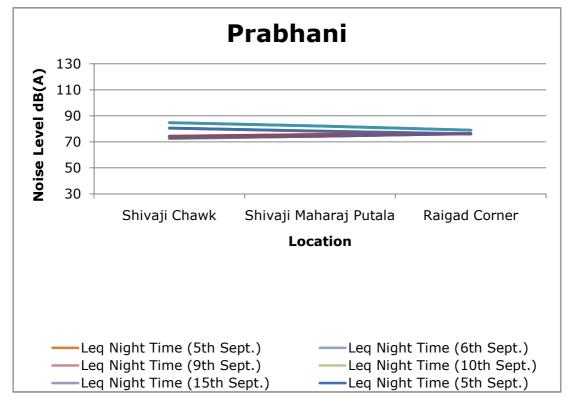


Chart 6.23: Noise levels during Ganesh festival in Prabhani

#### 24. Latur

The maximum noise level of 86.5~dB(A) in Latur was also observed at Ganjgolai on  $15^{th}$  September.

Table 6.24: Equivalent Continuous (L<sub>eq</sub>) dB(A), Noise Levels in Latur

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>ea</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>ea</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Ganjgolai	82.3	74.1	72.2	73.7	86.5
Kesharaj High school, Sham nagar	81.8	70.1	69.3	71.9	78.8
Aadarsh Colony, Ausa Road	79.4	75.8	75.8	76.1	83.1

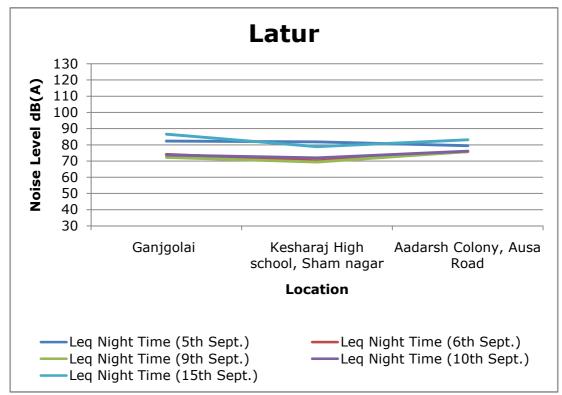


Chart 6.24: Noise levels during Ganesh festival in Latur

#### 25. Akola

In Akola also the higest noise level of 96.3 dB(A) was observed on  $15^{\text{th}}$  September at Civil line Chawk / Ratanlal plot.

Table 6.25: Equivalent Continuous ( $L_{eq}$ ) dB(A), Noise Levels in Akola

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
<b>Collector Office</b>	72.5	73.7	74.0	75.2	76.2
Civil line Chawk	76.9	82.1	83.2	81.3	96.3
City Kotawali Chawk near police station	79.2	80.9	82.0	82.2	91.2

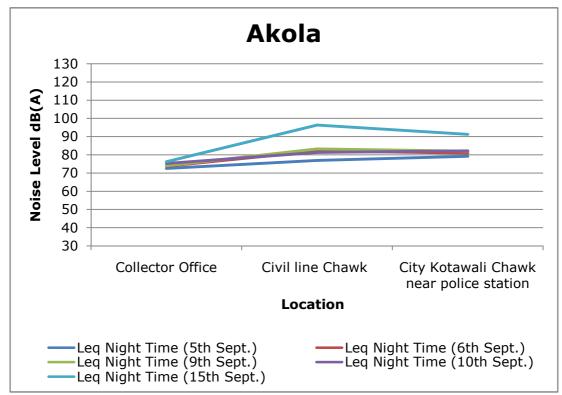


Chart 6.25: Noise levels during Ganesh festival in Akola

## 26. Solapur

The highest noise level in Solapur was observed near Saat Rastta Railway Station with 83.9 dB(A) on  $15^{\rm th}$  September.

Table 6.26: Equivalent Continuous ( $L_{eq}$ ) dB(A), Noise Levels in Solapur

Location	L <sub>eq</sub> Night Time (5 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (6 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (9 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (10 <sup>th</sup> Sept.)	L <sub>eq</sub> Night Time (15 <sup>th</sup> Sept.)
Balives	67.4	74.0	78.4	76.6	82.8
Ashok Chowk	60.5	74.8	77.1	77.5	82.9
Hotgi and Vijapur road	75.1	77.9	79.5	78.4	82.7
Saat Rastta Railway Station	70.5	78.0	76.9	77.9	83.9

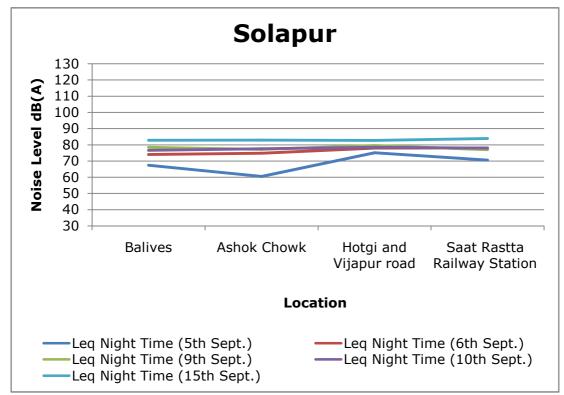


Chart 6.26: Noise levels during Ganesh festival in Solapur

#### **Comparative Study of Noise levels**

Comparative study of the last to years, i.e. 2015 – 2016 shows that the average noise levels in all the cities are lesser this year in almost all the regions.

Comparative study shows the following results in different cities of Maharashtra:

**Mumbai**: Comparative study shows that this year the noise level was observed higher in only Kandivali (W) as compared to last year. All other region showed lesser noise level this year.

**Navi Mumbai**: The noise level in Navi Mumbai was lesser in all location this year than previous year on all 5 days.

**Thane:** In Thane, the noise level was higher at Wagle Estate- Raila Devi Lake on the second and fourth day of monitoring and at Main Road- Gaondevi Mandir, Naupada on the third day of noise monitoring.

**Pune:** There was increase in noise level at Mahatma Phule Madai and Satara Road on the first and third day of noise monitoring respectively.

**Nashik:** The noise level of Nashik was higher at CBS and River Bank of Waldevi on the second and last day of noise monitoring respectively.

**Aurangabad:** The noise level in Aurangabad on the first day of monitoring was high as compared to the previous year.

**Nagpur:** The observed noise level was more or less the same as observed last year.

**Kalyan:** Bhiwandi and Ulhasnagar station was observed with average high noise levels this year.

**Amravati:** The noise level in Amravati remained the same as perious year with no increase or decrease.

**Jalgaon:** In Jalgaon, the average noise level have increased in the last day of monitoring as compared to last two years.

**Kolhapur:** The average highest noise level in Kholapur this year was observed at Mahalaxmi Mandir.

**Satara:**In Satara, there was no difference in the noise level observed as compared to last year.

Annexure V Noise Levels during Ganesh Festival for last 2 years in different cities of Maharashtra

#### **Conclusion**

This year 132 locations from 26 Municipal Corporation of Maharashtra for 5 days period during Ganesh Festival i.e. on  $5^{th}$ ,  $6^{th}$ ,  $9^{th}$ ,  $10^{th}$  &  $15^{th}$  September 2016 for 6 hours from 6 PM to 12 AM for each location which comprise of residential, commercial and silence zone. There was a significant decrease in the noise levels observed in almost all areas

Muncipal Corporation like Mumbai, Pune, Thane, Kalyan, Nagpur etc. showed tremendous decrease in the noise levels. The main noise level increase is more due to the increase in traffic and lesser due to the festival. People are becomed more and more aware about the ill-effect of the noise pollution which have given such good returns. It should also be noted that police also was very active in controlling the noise level this year.

The awareness of noise pollution is increased within the public through different media like newspaper, television etc. Many people celebrate an Eco friendly Ganesh Festival to control environmental pollution. The decrease in noise pollution is also a result of this awareness.

#### **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  $L_{\rm eq}$ , 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 level meter meeting the applicable specifications.

#### **Percentile Sound Level**

The "x percentile sound level", designated Lx, 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  $\mu$ Pa. Thus the sound pressure level in dB = 20 log10 P/Pr.

#### **Glimpses of the Event**



Mira-Bhyander - Mumbai

Band Gareshaya Namaha II Orzander Amput Orzander Amput Orzander Indian and Imported Furniture And Garantee \* No Return \* No Re

Kandivali (W) - Mumbai



Borivali - Mumbai



Parel - Mumbai



Kotala Chawk - Ahmedhnagar



Bosari Gaonthan - Pimpri-Chinchwad



Kothrud - Pune



Chaphekar Chawk - Pimpri-Chinchwad



VishrantWadi - Pune



Nashik Road - Nashik



City Kotawali Chawk - Akola

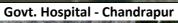


Dahi Pool - Nashik



Collector Office - Akola







**Agrasen Chawk - Dhule** 

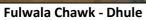


Gandhi Square - Chandrapur



Satana Naka - Malegaon









Malegaon Camp - Malegaon



# **ANNEXURE I**

#### Annexure I - Detailed list of locations

Sr. No.	City	Location name (details)
1.	Mumbai	Andheri - Azad Nagar, Sarvajanik Utsav Samiti
		Bandra - Sarvajanik Ganeshutsav Mandal
		Bhandup - Jay Bajrang Mitra Mandal
		Borivali - Manav Mitra Mandal
		Byculla - Sarvajanik Ganeshutsav mandal
		Chembur (East) - Near Ashish Talao / Ashish Theatre
		Chembur (West) - Sahyadri Krida Mandal Tilak Nagar
		<b>Chinchpokali (E)</b> - Lalbaug Raja Sarvajanik Ganeshutsav Mandal
		Chinchpokali (W) - Parsiwadi Mitra Mandal
		Dadar (East) - Khodadad Circle, Dadar TT
		Dadar (West) - Sai Ganesh Sadan, Senapati Bapat Marg, Sarvajanik Ganeshutsav Mandal, Sunder Nagar Elphinstone - Shiv Sai Sarvajanik Ganeshutsav Mandal, B.M.
		Marg  Ghatkopar - Amar Mitra Mandal, Tilak nagar
		<b>Girgaon Chowpati</b> - Akhil Chowpati Bhirvi Lane, Sarvajanik Ganeshutsav Mandal
		Grant Road - Saltar Road Sarvjanik Ganeshutsav Mandal
		Juhu Chowpati - Om Kareshver Shiv Mandir (Trust)
		Kandivali (East) - Thakur Village
		Kandivali (W) - Balla Mitra Mandal
		<b>Khar</b> - Sarvajanik Ganeshutsav Mandal
		Mulund - Sargam Mitra Mandal
		Mumbai Central - Belasis Road, B.I.T. Chawl
		Parel - Sarvajanik Ganeshutsav Mandal Bal Gopal Mandal
		Santacruz (East) - Milan Subway, Neet & Geet Society
		Vikhroli - Balmitra Kala Mandal
		<b>Wadala</b> - G.B.S. Sarvajanik Ganeshutsav Mandal, Shree Ram Mandir
2.	Navi Mumbai	Airoli - Traffic Police Chouki (before Mulund Airoli Bridge)
		CBD Belapur - MGM Hospital Chowk, Near Police Chowki

Sr. No.	City	Location name (details)			
		Kopar Khairane - Sector-10, D-Mart Main Road			
		Uran - Ganpati Chowk			
		Vashi - Shivaji Chowk Near Bus Depot			
3.	Thane	Gokhale Road-Malhar Cinema			
		Jambli Naka- Lake immersion Point			
		Main Road- Gaondevi Mandir, Naupada			
		Pokhran Road- Vartak Nagar Chowk			
		Wagle Estate- Raila Devi Lake			
		Court Naka			
		Mental Hospital			
		Bedekar Hospital			
		Kalwa- Chatarpati Shivaji Maharaj Hospital			
4.	Pune	Shivaji Nagar (Sakhar Sankul)			
		Karve Road (Nul stop)			
		Swar Gate (Tilak Road)			
		Satara Road (Balaji Nagar)			
		Shaniwar Peth (Shanivar Wada)			
Yerav		Yerawada (Near Gunjan Theatre)			
		Laxmi Road (Shagun Chowk)			
		Kothrud (Near Shivaji Putala)			
		Mahatma Phule Madai (Near Mandai)			
		Sarus Baug (Mitra Mandal Chowk)			
		Hadapsar (Nera Bhaji Mandai)			
		Parvati			
		Koregaon Park			
		Khadaki ( Near Bazar)			
		M G Road (Babajan Chowk)			
		University Road Chowk			

Sr. No.	City	Location name (details)		
		Aundh Parihar Chawk		
		Thergaon (Dange Chowk)		
		Navi Sangavi (Krushna Chauk)		
		VishrantWadi		
5.	Nashik	Nashik Road/ Ramkund on - 15.09.2016		
		Panchvati/ Near Ashok Stambh on - 15.09.2016		
		CBS / Near Gadge Maharaj Statue on - 15.09.2016		
		CIDCO/ River Bank of Waldevi on - 15.09.2016		
		Dahi Pool/ CIDCO (Behind PF Off.) on - 15.09.2016		
6.	Aurangabad	Gulmandi		
		City Chowk		
		Kranti Chowk		
		CIDCO Residential		
		Usmanpura		
7.	Nagpur	Ramdaspeth (KRIMS Hospital) /(Sonegaon lake on - 15.09.2016) Cotton Market (Jayshree Talkies) / (Gandhisagar on - 15.09.2016)		
		15.09.2016)  Golibar Chauk / (Futala lake on - 15.09.2016)		
		Reshimbag (Saraswati Vidyalaya) / (Sakkardara lake on -		
		15.09.2016)  Gandhiputala (Taori TV Showroom) / (Naik lake on - 15.09.2016)		
8.	Kalyan	Khadakpada Chawk		
		Shivaji Chawk		
		Ulhasnagar Station		
9.	Amaravati	Bhudhwara		
		Rajkamal Square		
		Irvin Hospital Square		
10.	Jalgaon	Subhash Chowk		
		Shashtri Tower Chowk		
		Shanipeth Police Station		
	1	I .		

Sr. No.	City	Location name (details)
11.	Kolhapur	Rajaram Puri (Near Rajaram Puri)
		Mahalaxmi Mandir
		Khas Baug Maidan (Near Khas Baug Maidan)
12.	Sangli	Miraj Market
		Vishram Baug Chawk
		Gandhi Putala (Ganpati Peth)
13.	Mira-Bhyander	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	Gaol Maidan (Commecial & Residentail)
		Doodh Naka, Ulhasnagr sector 5
		CHM college
16.	Bhiwandi-Nizampur	Dhamankar Naka
		Indira Gandhi Memorial Hospital
		Shelar Near Nadi naka
17.	Chnadrapur	Govt. Hospital
		Gandhi Square
		Jatpura Gate
18.	Nanded-Waghala	Ganesh Nagar, Municipal Corpartion, Nanded
		Shivaji Nagar
		Shree Guru Govindsing Govt. Medical College & Hospital, Shivaji Putala, Nanded
19.	Ahmednagar	Kotala Chawk
		Chitale Road
		Old Bus Stand
20.	Dhule	Agrasen Chawk

Sr. No.	City	Location name (details)
		Fulwala Chawk
		Santoshi Mata Chawk
21.	Malegaon	Mosampur
		Satana Naka
		Malegaon Camp
22.	Pimpri-Chinchwad	Chaphekar Chawk, Chinchwad Gaon
		Shanti Nagar (Pimri)
		Bosari Gaonthan
23.	Parbhani	Shivaji Chawk
		Shivaji Maharaj Putala, (near S.P. Office)
		Raigad Corner, Jintur road
24.	Latur	Ganjgolai
		Kesharaj High school, Sham nagar, Amba Jogai Road
		Aadarsh Colony, Ausa Road
25.	Akola	Collector Office
		Civil line Chawk / Ratanlal plot
		City Kotawali Chawk near police station
26.	Solapur	Balives
		Ashok Chowk
		Hotgi and Vijapur road
		Saat Rastta Railway Station

# **ANNEXURE II**

#### Annexure II - Sound Level Meter

**MS 6701, Type II** 



# **ANNEXURE III**

**Annexure III -** Noise Pollution (R & C) Rules, 2000 amendment dt.  $21^{\rm st}$  April 2009

#### ध्वनी प्रदूषण (नियंत्रण व नियमन) <u>नियम, २०००</u> ची प्रभावीयणे अंमलबजावणी करण्यासाठी प्राधिकरणाची नियुक्ती करण्याबाबत

#### महाराष्ट्र शासन पर्यावरण विभाग, मंत्रालय,

शासन निर्णय क्रमांक : ध्वनीप्र-२००९/प्र.क.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 प्रवूषण (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 करण्याकरीत्र विनांक 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 जाहिर करुन योग्य ते आदेश काढावेत. तसेच शहरात शांतता झोनचे फलक लावून आदेशाची प्रभावी अंमलबजावणी करण्यासाठी योग्य ती प्रसिध्दी करावी.
  - १) शैक्षणिक संस्थाच्या सभोवताली १०० मीटर क्षेत्र
  - २) सर्व न्यायालयाच्या सभोवतीली १०० मीटर क्षेत्र
  - 3) रुग्णालयाच्या सभोवताली १०० मीटर क्षेत्र
- २) ध्वनी प्रदूषणाची वाढती पातळी व निरिनराळे प्रदूषण स्त्रोत विचारात घेता, शासनाच्या निरिनराळ्या विभागांनी सद्यःस्थितीत ते राबवीत असलेल्या नियमाद्वारे ध्वनी प्रदूषण नियंत्रण व नियमनाची अमलबजावणी करावी. त्याकरिता परिशिष्ट १ मध्ये नमूद केल्याप्रमाणे, शासनाच्या संबंधित विभागांच्या अधिपत्याखालील संस्थांच्या अधिकाऱ्यांना पदनास प्राधिकरण म्हणून जाहीर करण्यात येत आहे. याबाबत संबंधीत

4. [ \$006-8-6-5006 ]-6

0

विभागांनी स्वतंत्र आदेश निर्गमित करावेत. सदर प्राधिकरण, ते राबवित असलेल्या नियमाच्या तरतुदीनुसार तरोर ध्वनी प्रदूषण (नियंत्रण व नियमन) नियम, २००० च्या तरतूदीनुसार ध्वनी प्रदूषण नियंत्रण व नियमनाचीर कार्यवाही करण्यास सक्षम असेल.

- 3) ध्वनी प्रदूषण करणारे उपकरणे / स्त्रोत 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 a 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 इत्यादीची, सभोवतालच्या हवेतील ध्वनी प्रदूषण गुणवत्तेच्या विहित मर्यादा परिशिष्ट २ मध्ये नमूद केल्याप्रमाणे असेल.
- 8) 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.

(ग.ान.वराड) 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 र परिशिष्ट - १

A.

B.

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

Sr. No		Concerned	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.		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.	Developement	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.
	CHI SCHOOLIN GROY  CHICAGO II GARAGO II GARAGO  SA CARCARA SANCA DOS  SANCA DA SANCA DA SANCA DOS  SANCA DA S		The urban local bodies shall be responsible for demarcation of the silent zones as per the Noise Rules, 2000 and displaying the same adequately.
	Autor care 1965 At 1 Survive wideler earli Transfer in Survive (1974)	to share the to share the share the to the share the to the share the total share the	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.
			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.
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.
	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

E1237, 1	6.	Head of M.M.R.D.A., M.S.R.D.C.	, Urban	jurisdiction.
		C.I.D.C.O., having local jurisdiction constituted under various Laws and Public Works Department.	. D	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
7		Member Secretary and		These Developmental Authorities should include adequate nois abatement measures in their projectivities such as noise barriers to the bridges and flyovers, tree plantation for roads etc.
		Member Secretary and any officer Maharashtra Pollution Control Board not below the rank of the Deputy Superintendent of Police	Environment Department	(i) Monitoring of Ambient Noise Level in case of specific requests from othe authorities referred in the table and communicating the results to the respective Authorities for further necessary action at their end.  (ii) For the enforcement of Noise Pollution Control Measures and
8.	ti	(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  (ii) Head of Maharashtra State Road Transport Corporation or any officer/ Depot Manager not below the rank of the Deputy Superintendent of Police.	Home Department (Transport)	Standards in industrial areas.  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.  The noise levels generated by the inuse vehicles should be monitored while grant of Pollution Under Control Certificate.
0.81	b	iii) Traffic Police Authorities not selow the rank of the Deputy superintendent of Police		

A select on in which cash emposis states I be wrong a yet protestal it is not that the mountain it is not that the mountain is not the mountain in the mountai

A.

E

#### 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	n dB(A) Leg*
		Day Time	Night Time
(A)	Industrial Area	75	70
(B)	Commercial Area	65	55
(C)	Residential Area	. 55 ·	. 45
(D)	Silence Zone	50	40

- 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.
- 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) Leg, 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.

- 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, Lw of a DG set should be less than, 94+10 log<sub>10</sub> (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 25dS (A).

- (C) Guidelines for the manufacturers/users of DG sets (5 KVA and above).
- O1. 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).
- O2. 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.
- The manufacturer should furnish noise power levels of the unsilenced DG sets as per standards prescribed under (A).
- O4. 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).
- Installation of a DG set must be strictly in compliance with the recommendations of the DG set manufacturer.
- O6. 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.

#### Noise Level Standards for Coal Washerles

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/Nm<sup>S</sup> or provided with adequate water sprinkling arrangement.
- Water sprinkling by using fine atomizer nozzeles 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 norn 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(AI) or 145 dB(C)<sub>pk</sub> 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<sub>10</sub> (N) dB, where N=Number of crackers joined together.
- B. The broad requirements for measurement of noise from fire-crackers shall be-
  - 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 1<sup>st</sup> 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.

### Noise limits for vehicles applicable at manufacturing stage from the year, 2003.

Sr.No.	Type of Vehicle	Noise Limits dB(A)	Date of Implementation
(1)	(2)	(3)	(4)
1.	Two Wheeler		
majasanti	TO EXCEPT DESCRIPTION OF THE PARTY OF THE PA		1 <sup>st</sup> January, 2003
	Displacement upto 80 cm <sup>3</sup>	75	g govino
	Displacement more than 80 cm <sup>3</sup> but upto 175 cm <sup>3</sup>	77	e un est so
	Displacement more than 175 cm <sup>3</sup>	89	10000058
2.	Three Wheeler		1 <sup>st</sup> January, 2003
i.	Displacement upto 175 cm <sup>3</sup>	77	· ·
	Displacement more than 175 cm <sup>3</sup>	80	in the control of the
3.	Passenger Car	75	1 <sup>st</sup> January, 2003
4.	Passenger or Commercial Vehicles	tell upon to recent to the popular t	in all property of the state of
		· ·	1 <sup>st</sup> July, 2003
w Isl	Gross vehicle weight upto 4 tonnes	80	DE SHEET OF THE SH
	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 1<sup>st</sup> 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	- To-21-86-0
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 ha including the driver's seat and a maximum Gros more than tonnes	ving more than nine seat s Vehicle Weight (GVW) o
4.1	With an engine power less than 150KW	70
4.2		78
	With an engine power of 150 KW or above	80
5.0	Vehicles used for the carriage of passengers ha	80
		80
5.1	Vehicles used for the carriage of passengers had including the driver's seat: Vehicle used for the carriage of passengers had including the driver's seat: Vehicle used for the carriage of passengers had including the driver's seat: Vehicle used for the carriage of passengers had included by the carriage of passengers had including the driver's seat: Vehicle used for the carriage of passengers had including the driver's seat: Vehicle used for the carriage of passengers had including the driver's seat: Vehicle used for the carriage of passengers had including the driver's seat: Vehicle used for the carriage of passengers had included by the driver's seat: Vehicle used for the carriage of passengers had included by the driver's seat: Vehicle used for the carriage of passengers had included by the driver's seat: Vehicle used for the carriage of passengers had been driver's seat: Vehicle used for the carriage of passengers had been driver's seat of the carriage of passengers had been driver by the carriage of passengers had been driver	80 ving more than nine seats rriage of goods.
5.1	Vehicles used for the carriage of passengers had including the driver's seat: Vehicle used for the call With a maximum GVW not exceeding 2 tonnes.  With a maximum GVW greater than 3 tonnes.	80 ving more than nine seats rriage of goods.  76
5.1	Vehicles used for the carriage of passengers had including the driver's seat: Vehicle used for the call With a maximum GVW not exceeding 2 tonnes.  With a maximum GVW greater than 3 tonnes but not exceeding 3.5 tonnes.  Vehicles used for the transport of goods with a maximum GVW greater than 3 tonnes.	80  ving more than nine seats rriage of goods.  76
5.1	Vehicles used for the carriage of passengers had including the driver's seat: Vehicle used for the call With a maximum GVW not exceeding 2 tonnes.  With a maximum GVW greater than 3 tonnes but not exceeding 3.5 tonnes.  Vehicles used for the transport of goods with a maximum group of goods with a maximum group.	ving more than nine seats rriage of goods.  76  77  ximum GVW exceeding 3.5

### 7. Noise Standards Part E:-

Α	Noise manut	limits for Automobiles (Free Field Distance at 7.5 meter in dB(A) at the facturing stage.
8	(a)	Motorcycle, Sccoters and Three Wheelers 80
	(b)	Passenger Cars 82
	(ċ)	Passenger or Commercial vehicles upto 4 MT 85
	(d)	Passenger or Commercial vehicles above 4 MT and 89
		Upto 12 MT
	(e)	Passenger or Commercial vehicles exceeding 12 MT 91

B. Domestic appliances and construction equipments at the manufacturing stage to be achieved by 31<sup>st</sup> 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	75	
	Mixers, Cranes (moveable), Vibrators and Saws	anima na may	
	ter the minimum interest contract and more than the		

\*\*\*\*

# **ANNEXURE IV**

**Annexure IV -** Hourly Noise Levels on  $5^{th}$ ,  $6^{th}$ ,  $9^{th}$ ,  $10^{th}$  &  $15^{th}$  September 2016 during Ganesh Festival at different locations in Maharashtra

Hourly Noise Levels on 5<sup>th</sup>, 6<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup> & 15<sup>th</sup> September 2016 during Ganesh Festival at different locations in Maharashtra 6<sup>th</sup> September 2016 Tuesday 10<sup>th</sup> September 2016 Location 5<sup>th</sup> September 2016 Monday 9th September 2016 Friday 15<sup>th</sup> September 2016 No. Saturday Thursday name (details) 21:00 21:00 22:00 18:00 19:00 22:00 23:00 18:00 19:00 20:00 21:00 22:00 23:00 19:00 20:00 21:00 22:00 23:00 18:00 19:00 20:00 22:00 23:00 18:00 19:00 20:00 23:00 20:00 21:00 22:00 19:00 20:00 21:00 22:00 23:00 00:00 19:00 20:00 21:00 22:00 23:00 00:00 19:00 20:00 21:00 22:00 23:00 00:00 19:00 20:00 21:00 22:00 23:00 00:00 19:00 20:00 21:00 23:00 00:00 **MUMBAI** 53.6 65.9 78.4 73.6 78.9 78.6 69.3 71.6 80.3 80.5 73.2 70.7 72.6 76.3 64.2 61.6 64.3 57.4 69.8 78.2 73.8 72.9 68.1 65.1 73.7 76.9 73.4 75.7 74.1 79.1 Andheri Bandra 61.3 65.7 75.6 79.8 80.8 72.5 83.0 83.9 83.5 82.8 75.6 79.8 65.0 75.3 68.4 66.5 73.1 65.4 80.4 85.0 78.1 78.6 60.1 60.6 72.2 76.0 74.6 75.5 72.3 73.1 78.5 72.6 72.3 71.0 Bhandup 52.0 79.2 72.6 75.2 75.4 77.5 75.6 73.1 79.2 68.3 75.5 76.1 76.2 76.9 64.3 68.5 78.5 75.6 68.5 79.3 84.5 74.9 80.5 73.2 71.8 64.5 77.7 87.3 69.5 78.5 76.5 80.9 76.0 71.7 67.5 61.0 72.5 76.7 72.0 77.6 74.9 66.5 Borivali 65.4 75.3 5. Byculla 55.6 77.7 74.2 85.2 77.6 73.3 76.1 73.9 74.3 76.7 73.8 65.2 69.3 63.5 68.9 76.5 79.4 69.8 66.5 66.3 68.5 69.5 70.8 68.3 76.1 79.5 84.9 77.7 74.7 74.2 77.6 73.9 79.9 86.1 75.1 67.5 68.6 77.2 79.0 83.5 80.4 72.2 76.9 75.8 72.1 80.5 97.4 78.9 69.4 Chembur (E) 64.0 76.3 64.3 84.1 72.6 57.3 72.1 73.3 76.4 60.9 68.0 63.2 70.6 87.7 73.2 73.9 86.5 82.8 81.5 Chembur (W) 65.8 73.9 74.2 79.5 67.0 70.0 65.3 71.6 73.2 73.4 68.3 61.5 62.7 57.3 58.2 65.9 68.4 70.4 78.3 73.3 8. 67.3 77.3 78.9 61.6 80.5 83.2 83.9 80.6 80.5 89.9 83.2 81.2 81.0 Chinchpokali (E) 70.0 79.6 81.3 76.3 71.7 71.3 74.2 76.3 74.3 75.8 64.3 65.0 62.7 67.9 70.8 71.8 73.6 Chinchpokali 68.7 71.3 73.1 67.6 72.0 74.9 68.9 89.3 87.2 62.0 66.8 71.3 67.8 70.9 71.1 68.3 76.6 73.6 73.7 76.3 66.5 70.7 69.5 66.8 67.5 70.2 71.8 71.8 73.7 85.9 10. Dadar (E) 59.8 64.3 60.4 62.7 66.8 68.1 73.0 65.8 85.3 78.9 85.3 73.0 62.8 66.4 67.9 73.8 65.1 66.3 65.8 66.7 68.4 76.1 81.1 80.3 67.4 66.3 68.7 70.4 74.2 67.2 65.8 11. 68.3 60.7 62.6 62.2 69.5 91.8 88.4 79.7 69.9 Dadar (W) 59.8 60.4 61.4 76.6 71.5 62.3 71.3 71.1 76.6 89.0 78.2 67.7 67.8 65.6 66.8 63.3 69.4 71.1 82.4 76.5 12. Elphinstone 55.6 66.5 67.5 69.6 78.0 78.4 75.4 77.7 75.7 87.0 83.1 82.1 64.7 62.7 63.8 64.8 61.4 67.5 76.2 87.8 70.8 90.9 84.3 83.3 69.8 72.0 71.6 80.3 80.5 73.2 13. Ghatkopar 62.3 63.5 67.9 77.0 76.1 78.1 84.0 86.7 80.5 84.2 74.7 67.7 70.0 69.6 69.9 70.4 68.3 74.7 74.3 75.8 82.4 65.7 75.6 79.8 80.8 72.5 70.1 72.5 71.6 72.3 Girgaon 14. 56.7 66.6 60.9 57.7 57.4 83.2 88.1 69.9 83.2 78.0 71.7 67.5 70.2 70.8 59.5 68.3 75.2 74.0 73.2 65.5 73.6 68.0 71.5 75.4 Chowpati Grant Road 15. 52.6 64.9 72.9 73.7 71.5 83.0 76.5 76.3 64.3 77.6 81.0 72.3 64.4 67.3 68.8 75.1 69.9 68.3 71.4 72.0 72.6 73.8 80.9 87.8 66.3 60.2 57.2 71.2 71.3 62.5 16. Juhu Chowpati 53.4 67.4 72.5 71.9 72.2 72.1 75.3 78.5 73.1 76.0 66.7 68.2 64.7 62.4 63.9 61.6 84.6 86.3 87.5 71.5 74.1 72.3 75.3 78.5 73.1 76.0 66.7 68.2 61.6 61.8 80.3 17. Kandivali (E) 60.3 72.6 76.3 78.9 61.6 64.3 65.9 73.5 79.2 73.6 79.3 64.2 68.9 69.5 68.7 80.8 73.1 69.9 82.1 77.2 76.3 78.5 79.5 56.1 68.2 84.6 87.5 79.5 68.5 18. Kandivali (W) 62.9 64.5 77.7 87.3 69.5 78.5 65.3 75.3 67.8 69.1 70.2 63.5 69.3 72.5 73.7 69.3 71.0 71.6 72.8 75.2 73.9 75.5 62.1 72.4 64.7 62.4 63.9 61.6 61.6 61.8 19. Khar 55.0 72.3 70.1 72.6 69.8 65.8 68.8 78.5 72.1 70.4 77.8 77.4 70.1 73.1 74.4 74.6 75.9 82.0 75.3 74.4 76.8 75.7 78.1 74.7 70.3 79.8 79.3 87.3 74.1 64.6 20. 61.3 73.1 74.2 73.4 73.7 73.1 84.4 74.8 Mulund 58.7 72.5 63.1 67.8 68.2 69.2 71.9 76.5 71.4 71.0 70.2 78.9 71.4 72.1 78.0 75.9 75.9 63.3 68.8 71.7 76.8 21. Mumbai Central 60.5 67.5 74.8 73.2 70.6 73.2 72.3 75.2 77.8 75.2 74.8 77.1 69.9 78.4 74.3 68.9 76.5 79.4 73.4 73.1 73.9 72.6 76.7 71.2 69.2 73.1 74.2 71.9 76.5 72.3 74.7 73.4 22. Parel 59.7 66.6 67.6 73.8 71.4 74.7 83.1 83.6 75.6 75.2 71.6 71.6 76.7 78.5 73.6 72.4 75.9 71.2 74.6 75.2 65.3 73.5 75.4 70.4 23. 69.1 66.1 75.6 73.9 80.8 Santacruz (E) 61.6 65.3 75.3 67.8 70.2 76.9 71.1 87.4 78.1 74.9 78.2 66.2 63.4 63.8 62.0 63.8 77.2 71.1 71.5 75.5 66.8 74.5 73.0 73.6 69.6 24. Vikhroli 58.3 67.5 68.4 70.2 70.8 59.5 82.8 78.0 76.9 77.9 82.7 69.9 66.4 67.7 63.6 64.8 64.5 64.7 71.8 72.5 75.7 71.7 73.0 66.9 73.9 79.9 85.1 79.1 86.4 81.7 74.2 78.0 67.9 72.3 68.7 25. Wadala 78.5 72.1 70.4 77.8 71.0 82.5 72.5 72.8 72.8 64.3 57.6 69.2 71.3 79.0 72.1 73.6 64.0 64.4 64.2 74.4 Navi Mumbai 59.3 67.5 67.6 72.4 65.9 67.4 65.3 69.1 67.6 76.4 66.9 67.2 66.2 77.9 78.8 82.1 77.7 74.5 76.0 77.7 71.6 26. 69.0 67.4 73.9 62.1 64.3 74.8 73.2 72.5 74.4 Airoli 27. **CBD** Belapur 63.3 67.8 68.7 79.9 72.1 70.1 71.8 68.6 66.3 64.9 61.9 59.6 59.4 57.6 59.2 68.9 73.0 73.2 74.9 72.7 69.9 71.7 70.1 65.6 61.6 68.8 76.0 81.3 69.3 71.5 28. Kopar Khairane 65.9 69.6 66.3 69.1 71.6 71.5 73.6 64.6 64.3 60.7 63.8 70.4 74.2 78.0 71.0 80.0 72.8 80.4 71.2 71.8 69.7 67.3 70.6 69.7 79.0 82.5 83.4 71.4 73.3 76.4 29. Uran 54.3 68.0 77.0 76.1 74.0 71.5 71.4 71.6 70.1 70.1 78.2 74.3 69.3 67.8 71.1 71.5 68.8 72.1 58.8 60.6 69.0 75.1 74.8 66.3 65.5 73.2 79.3 79.6 72.3 65.5 30. Vashi 65.8 66.3 60.2 71.2 71.3 69.8 65.8 67.1 66.7 67.6 81.4 70.4 65.0 69.5 73.0 72.2 62.3 68.1 65.7 66.3 68.3 67.1 73.2 79.9 68.8 71.3 69.5 56.3 57.2 67.3 **Thane** 31. Gokhale Road 77.3 71.9 66.8 72.2 71.6 79.3 70.7 70.1 64.3 68.9 69.5 75.1 78.4 81.9 76.3 72.9 72.7 69.7 78.0 78.4 72.6 76.3 80.0 83.6 76.8 77.9 83.4 78.9 72.4 76.5 32. Jambli Naka 66.6 73.7 73.6 75.1 77.0 70.2 56.8 63.0 56.5 59.7 59.3 52.5 78.6 73.7 85.3 78.4 79.7 67.5 71.1 74.0 76.4 78.5 74.3 76.1 70.8 71.9 72.7 73.5 82.2 85.7 33. 73.4 68.2 84.9 86.1 77.3 70.6 73.8 83.8 86.8 Naupada 51.8 68.6 78.6 60.4 70.7 75.9 78.3 69.5 71.8 71.7 80.0 78.2 78.5 66.3 66.073.2 70.8 69.681.0 76.3 Vartak Nagar 34. 72.7 76.4 80.7 82.0 71.1 76.2 73.2 73.4 68.3 72.3 74.7 74.3 64.8 68.4 69.5 70.7 74.3 60.3 73.3 78.6 76.3 74.2 71.7 68.8 76.3 67.8 77.3 82.0 82.8 80.9 Chowk 35. Wagle Estate-67.5 69.7 74.8 72.1 71.8 68.8 79.9 81.4 81.6 83.2 88.1 69.9 62.7 65.8 65.3 71.3 72.4 73.7 88.7 99.1 89.1 88.0 99.4 94.3 74.7 78.1 76.9 85.2 80.9 77.0 Court Naka 80.3 74.2 71.3 71.1 36. 71.4 69.7 67.3 65.9 73.1 68.8 77.4 72.3 70.8 72.5 73.8 74.8 81.1 78.4 69.5 66.3 68.6 71.0 71.5 75.8 75.3 75.2 67.0 70.8 65.6 73.4 37. 77.5 77.6 77.2 70.3 68.4 65.8 75.5 68.3 64.8 80.8 77.7 76.3 70.7 76.9 71.2 Mental Hospital 75.1 75.8 78.1 65.4 68.4 69.7 73.5 66.1 55.6 52.1 63.9 66.2 58.4 55.1 55.9 Bedekar 38. 57.1 63.9 70.0 68.6 72.4 70.8 63.6 62.2 65.8 64.6 66.2 65.3 58.4 59.5 65.2 68.9 71.8 65.5 67.3 66.7 67.2 63.3 58.6 52.3 73.9 66.9 72.2 61.5 82.8 81.9 Hospital 39. Kalwa 59.9 61.5 59.3 54.2 59.3 58.4 64.2 63.7 62.9 65.5 67.3 59.3 63.1 62.8 58.0 50.8 52.2 64.1 56.6 57.8 65.8 65.7 51.2 58.2 68.1 72.1 78.8 79.7 73.4 76.9 **PUNE** 73.7 40. 61.3 67.1 72.3 71.8 74.3 69.9 67.8 67.1 66.9 69.8 69.3 80.3 80.7 71.9 86.4 86.7 88.6 87.5 58.9 73.1 58.6 78.3 79.4 75.8 69.1 79.1 78.8 82.6 72.6 Shivaji Nagar 41. Karve Road 63.0 65.9 76.1 78.8 79.5 83.2 71.4 79.4 88.5 96.9 81.2 72.1 72.6 80.4 91.5 88.9 82.2 71.9 65.9 74.9 84.8 84.7 75.7 64.5 75.9 86.7 98.3 98.5 93.4 84.7

Sr. No.	Location name (details)	5 <sup>th</sup>	Septe	embe	r <b>201</b> (	6 Mon	ıday	6 <sup>th</sup> September 2016 Tuesday							9 <sup>th</sup> September 2016 Friday							Septe Satu		2016		15 <sup>th</sup> September 2016 Thursday					
		18:00	19:00	20:00	21:00	22:00	23:00	18:00	19:00	20:00	21:00	22:00	23:00	18:00	19:00	20:00	21:00	22:00	23:00	18:00	19:00	20:00	21:00	22:00	23:00	18:00	19:00	20:00	21:00	22:00	23:00
		19:00	20:00	21:00	22:00	23:00	00:00	19:00	20:00	21:00	22:00	23:00	00:00	19:00	20:00	21:00	22:00	23:00	00:00	19:00	20:00	21:00	22:00	23:00	00:00	19:00	20:00	21:00	22:00	23:00	00:00
42.	Swar Gate	72.5	77.7	71.9	77.1	74.7	78.5	71.8	80.9	77.1	74.5	67.0	62.2	80.3	92.9	95.2	80.5	78.6	69.4	93.1	95.3	93.9	88.8	82.3	77.5	92.0	91.6	93.2	88.4	91.8	70.2
43.	Satara Road	69.2	75.8	78.9	82.5	78.1	69.4	74.8	74.9	83.1	79.5	74.3	63.2	81.9	90.4	95.6	89.3	89.9	72.8	67.8	79.6	83.5	89.7	82.5	70.4	83.1	90.5	94.7	89.3	92.4	85.3
44.	Shaniwar Peth	66.1	78.2	76.8	80.7	85.5	89.9	79.8	80.9	77.7	72.7	78.6	73.7	73.3	74.8	77.3	71.0	74.0	72.3	76.9	79.5	78.7	79.0	80.1	75.9	97.1	94.5	87.6	84.6	84.0	84.7
45.	Yerawada	59.7	61.3	72.5	78.4	81.6	86.8	79.9	84.6	83.5	83.2	76.3	75.3	87.2	89.3	93.7	92.6	89.4	74.9	90.2	83.1	84.0	83.1	77.0	72.5	84.7	89.1	88.1	87.8	90.7	87.5
46.	Laxmi Road	54.9	63.5	69.8	78.4	86.4	91.9	71.2	75.6	80.9	77.8	74.9	67.3	75.4	71.3	85.6	82.9	79.8	71.2	71.6	78.7	79.5	81.3	78.2	70.1	95.6	100.7	99.3	98.4	100.7	87.5
47.	Kothrud	60.1	65.0	67.2	73.8	78.4	76.5	63.7	68.3	77.7	86.0	78.9	64.6	65.9	74.2	86.5	87.8	76.3	66.8	63.7	71.2	77.1	81.9	74.4	62.1	74.4	83.7	96.2	99.7	92.4	78.9
48.	Mahatma Phule Madai	83.7	86.3	108.0	111.7	116.9	114.8	82.4	86.3	78.9	81.9	83.3	74.6	81.8	88.4	85.4	86.0	86.9	81.0	84.0	87.1	85.4	83.8	81.3	80.3	104.4	108.6	105.3	99.6	96.3	84.3
49.	Sarus Baug	67.0	69.1	68.1	67.4	70.4	72.1	69.3	75.7	69.7	68.6	63.9	61.5	67.9	83.2	82.4	73.9	65.9	64.7	78.2	86.1	77.4	79.6	75.6	68.4	82.0	87.2	89.0	80.9	76.2	70.9
50.	Hadapsar	75.6	78.3	80.2	86.1	87.4	84.4	83.6	88.2	86.5	83.8	78.0	70.1	86.4	89.5	90.5	83.5	74.6	66.5	85.4	89.6	89.0	83.9	80.0	69.4	87.0	92.3	93.2	89.0	85.8	75.7
51.	Parvati	53.4	56.2	55.7	69.8	72.5	70.8	69.0	73.5	79.4	73.1	64.9	59.3	86.7	92.5	94.8	86.5	82.9	72.3	69.3	79.5	79.4	76.9	70.1	63.8	90.5	92.8	95.7	87.3	85.7	80.9
52.	Koregaon Park	69.6	70.5	71.6	72.3	70.8	71.9	74.0	76.7	77.1	76.8	72.7	69.4	75.8	78.7	89.7	75.9	71.4	70.2	78.0	80.9	80.8	78.6	74.9	69.5	81.7	81.7	78.7	75.0	72.0	69.5
53.	Khadaki	66.5	61.9	67.9	77.5	79.5	82.9	67.4	69.2	74.7	73.1	66.0	57.1	66.8	69.3	77.7	77.3	76.0	74.3	69.3	83.5	79.4	81.6	81.6	71.7	90.2	88.5	89.5	88.3	85.2	77.9
54.	M G Road	63.4	66.2	76.7	86.0	86.2	79.7	78.0	80.4	83.3	83.5	85.2	78.2	82.4	83.2	83.6	83.9	81.2	78.2	84.0	85.1	84.6	85.5	83.6	80.0	86.6	86.6	86.2	86.0	85.2	82.0
55.	University Road Chowk	55.8	63.4	69.7	75.4	78.6	78.9	71.8	74.3	83.9	81.4	72.1	68.3	76.3	84.9	92.8	93.4	89.7	71.9	78.3	88.5	89.2	91.5	85.3	73.1	76.0	78.5	78.9	78.1	75.2	69.4
56.	Aundh Parihar Chawk	63.0	65.3	69.5	73.9	75.0	79.8	65.9	66.6	68.7	69.8	69.8	50.9	68.4	82.6	80.9	78.4	82.3	71.7	79.2	73.3	74.2	72.1	67.9	60.8	102.2	97.6	100. 5	105.9	95.1	73.7
57.	Thergaon	75.5	74.0	76.8	81.5	80.6	81.2	71.9	74.2	74.7	76.2	75.8	68.6	75.5	77.7	78.2	81.4	73.7	68.9	75.2	75.3	79.3	81.7	75.6	73.1	82.0	82.5	83.7	84.2	93.1	73.4
58.	Navi Sangavi	67.0	59.5	66.4	74.5	78.9	76.9	70.3	69.4	72.4	73.2	64.5	56.6	68.5	68.2	78.3	81.5	74.1	63.4	70.4	77.0	80.5	80.1	78.6	73.8	69.4	68.8	75.2	83.6	75.4	69.7
59.	VishrantWadi	63.1	61.9	71.7	73.3	79.4	77.3	76.3	82.6	79.7	72.9	63.9	54.5	80.4	74.6	82.7 <b>Nas</b>	79.3 <b>hik</b>	69.8	65.9	72.3	74.9	86.0	79.8	68.4	57.5	82.5	83.2	93.6	90.7	89.5	70.1
60.	Nashik Road	75.4	83.4	78.0	75.5	76.1	82.9	82.4	83.4	80.4	79.5	75.1	68.9	78.2	83.9	87.7	78.9	74.3	69.3	79.2	82.4	87.0	79.8	72.2	68.4	101.4	98.6	85.3	97.3	101.0	74.2
61.	Panchvati	75.0	80.6	74.6	76.8	77.5	83.3	84.5	82.6	86.6	79.5	73.5	70.3	79.3	85.2	84.6	80.1	80.5	73.6	80.5	81.0	81.4	80.5	78.5	68.6	103. 6	93.3	102.1	85.3	78.5	71.2
62.	CBS	75.8	79.8	76.4	78.3	79.1	82.9	83.8	80.8	84.4	86.3	74.2	70.1	80.2	84.7	84.5	81.4	82.5	79.4	81.4	83.5	84.6	83.4	79.0	69.5	91.3	85.4	72.3	78.2	69.3	102.9
63.	CIDCO	72.2	79.6	79.3	78.9	80.6	81.4	80.2	79.4	78.2	79.3	74.2	67.6	82.5	83.7	80.4	81.7	79.4	72.5	76.2	79.5	80.3	82.5	78.4	62.5	99.4	107.4	102.2	105.1	99.4	85.1
64.	Dahi Pool	77.0	79.6	75.1	78.9	78.3	80.5	79.6	84.4	76.1	80.9	72.3	69.1	80.5	82.5	85.3 uran	84.6	79.5	71.5	79.9	82.7	83.5	79.6	79.1	67.5	87.6	92.3	91.3	108.6	99.3	81.3
65.	Gulmandi	65.2	83.4	87.2	84.3	86.8	90.3	72.4	75.8	79.3	77.4	76.1	74.6	73.4	76.7	75.1	72.6	70.8	67.3	74.6	77.1	76.5	73.9	71.1	69.5	79.8	84.5	87.3	90.4	92.1	85.2
66.	City Chowk	72.3	74.8	79.1	75.7	72.5	67.4	65.1	68.2	70.2	66.2	67.1	61.4	66.2	69.5	70.1	68.9	67.4	65.1	69.4	72.6	71.4	69.7	69.6	68.2	77.4	80.6	85.7	88.1	86.3	81.6
67.	Kranti Chowk	69.6	74.6	78.7	85.3	87.4	88.1	69.4	70.5	74.8	72.4	72.9	70.4	73.6	74.5	73.9	70.4	68.6	67.8	75.1	76.9	76.1	73.8	70.1	68.4	74.5	78.9	86.4	89.2	83.6	80.5
68.	CIDCO	68.1	73.5	75.2	78.4	79.8	82.5	68.7	69.5	70.8	69.4	65.4	62.8	70.1	70.8	69.2	66.3	63.4	61.1	70.9	71.4	73.6	72.8	69.1	67.1	71.7	76.2	81.5	85.3	82.4	78.3
	Residential																														
69.	Usmanpura	72.8	76.0	81.3	71.4	68.2	69.7	70.7	72.5	74.6	72.1	71.7	69.1	71.3	72.9	67.4 Nag	65.2 pur	64.7	62.5	72.1	73.2	73.8	71.9	68.0	65.1	70.3	75.9	79.6	83.5	82.7	75.6
70.	Ramdaspeth	65.2	83.4	87.2	84.3	86.8	90.3	72.4	75.8	79.3	77.4	76.1	74.6	73.4	76.7	75.1	72.6	70.8	67.3	74.6	77.1	76.5	73.9	71.1	69.5	79.8	84.5	87.3	90.4	92.1	85.2
71.	Cotton Market	72.3	74.8	79.1	75.7	72.5	67.4	65.1	68.2	70.2	66.2	67.1	61.4	66.2	69.5	70.1	68.9	67.4	65.1	69.4	72.6	71.4	69.7	69.6	68.2	77.4	80.6	85.7	88.1	86.3	81.6
72.	Golibar Chauk	69.6	74.6	78.7	85.3	87.4	88.1	69.4	70.5	74.8	72.4	72.9	70.4	73.6	74.5	73.9	70.4	68.6	67.8	75.1	76.9	76.1	73.8	70.1	68.4	74.5	78.9	86.4	89.2	83.6	80.5
73.	Reshimbag	68.1	73.5	75.2	78.4	79.8	82.5	68.7	69.5	70.8	69.4	65.4	62.8	70.1	70.8	69.2	66.3	63.4	61.1	70.9	71.4	73.6	72.8	69.1	67.1	71.7	76.2	81.5	85.3	82.4	78.3
74.	Gandhiputala	72.8	76.0	81.3	71.4	68.2	69.7	70.7	72.5	74.6	72.1	71.7	69.1	71.3	72.9	67.4	65.2	64.7	62.5	72.1	73.2	73.8	71.9	68.0	65.1	70.3	75.9	79.6	83.5	82.7	75.6
																Kal	yan														
75.	Khadakpada Chawk	70.3	73.9	72.3	70.7	75.9	70.3	67.2	53.1	66.7	68.2	70.8	75.4	75.7	72.6	76.1	72.8	82.4	78.6	76.6	80.9	85.9	78.6	65.2	75.3	87.3	69.5	78.5	76.5	66.4	62.7
76.	Shivaji Chawk	78.8	80.6	77.0	80.0	78.8	75.4	69.9	78.1	79.3	80.9	82.6	78.4	74.0	79.0	73.9	83.3	68.8	74.9	76.1	77.1	80.3	77.9	72.8	71.2	78.9	61.6	64.3	65.0	70.7	69.5
77.	Ulhasnagar Station	74.8	71.6	68.7	71.4	71.4	72.4	66.6	72.5	75.8	78.3	79.3	82.7	75.6	63.8	75.6	69.4	79.0	77.6	78.9	74.9	76.9	78.8	90.1	81.3	68.5	78.5	73.1	79.2	68.3	66.2
															A	mar	avat	i													
78.	Bhudhwara	58.9	59.9	58.8	63.2	65.5	68.0	63.8	67.2	71.6	62.7	58.6	53.9	64.2	66.1	71.9	67.7	61.2	58.6	68.9	74.4	72.3	68.0	62.4	59.1	67.6	70.0	71.7	70.4	66.5	59.0
79.	Rajkamal Square	67.5	71.3	74.5	77.5	80.1	83.7	75.7	77.5	77.3	76.6	75.1	73.1	78.2	75.9	76.9	76.7	73.8	72.5	76.7	79.4	77.6	76.3	71.4	65.2	74.4	75.2	76.9	74.7	74.7	66.7
80.	Irvin Hospital Square	53.1	52.8	57.5	58.1	61.9	61.4	63.0	61.4	60.0	57.6	54.2	48.6	62.9	62.1	63.1	60.6	59.6	56.1	62.8	63.3	64.2	60.5	58.4	56.1	62.9	63.2	62.3	60.5	58.6	55.8

Sr. No.	Location name (details)	5 <sup>th</sup>	Septe	embe	r 201	6 Mon	ıday	6 <sup>th</sup> September 2016 Tuesday							9 <sup>th</sup> September 2016 Friday						10 <sup>th</sup> 5	Septe Satu	mber irday	2016		15 <sup>th</sup> September 2016 Thursday						
		18:00	19:00	20:00	21:00	22:00	23:00	18:00	19:00	20:00	21:00 -	22:00	23:00	18:00	19:00	20:00	21:00	22:00	23:00	18:00	19:00	20:00	21:00	22:00	23:00	18:00	19:00	20:00	21:00	22:00	23:00	
		19:00	20:00	21:00	22:00	23:00	00:00	19:00	20:00	21:00	22:00	23:00	00:00	19:00	20:00	21:00	22:00	23:00	00:00	19:00	20:00	21:00	22:00	23:00	00:00	19:00	20:00	21:00	22:00	23:00	00:00	
		Jalgaon													ı	1	ı				ı	ı		ı	т—							
81.	Subhash Chowk	51.1	59.2	69.0	75.8	76.7	74.3	75.0	72.5	67.9	62.1	50.9	46.3	77.3	78.4	71.1	66.0	59.4	48.5	76.0	73.8	74.9	71.2	67.2	55.2	75.0	66.6	68.7	68.4	83.2	83.7	
82.	Shashtri Tower Chowk	67.3	69.2	75.1	86.9	89.1	89.2	79.3	81.6	75.3	72.5	69.1	66.2	81.4	82.1	76.6	74.3	71.2	63.8	83.2	79.7	76.8	74.9	71.3	64.6	93.0	94.7	85.7	94.9	87.8	82.1	
83.	Shanipeth Police Station	45.7	46.8	51.7	55.3	56.3	50.7	63.7	65.7	58.4	52.2	47.4	44.6	52.8	59.5	50.9	49.4	47.8	45.2	56.0	60.5	53.2	51.6	47.6	46.5	52.8	63.3	63.4	58.3	49.8	48.9	
															ı	Kolh	apur	•														
84.	Rajaram Puri (Near Rajaram Puri)	60.1	60.1	73.8	79.6	73.8	81.5	73.2	73.1	78.8	78.1	73.1	71.5	62.7	71.8	82.2	72.5	78.8	75.5	87.8	79.9	82.7	82.9	86.8	75.7	78.7	81.7	87.2	86.9	89.8	81.3	
85.	Mahalaxmi Mandir	56.9	59.1	81.6	83.2	80.2	79.3	77.7	75.0	80.6	74.8	73.7	69.3	74.8	72.1	76.4	77.8	71.3	70.4	73.6	76.2	71.3	86.3	76.7	79.4	74.7	83.6	89.3	83.5	88.3	78.9	
86.	Khas Baug Maidan (Near Khas Baug Maidan)	55.4	57.9	59.9	82.7	76.2	85.6	81.8	78.9	80.1	85.6	74.9	73.0	76.0	83.8	80.3	75.5	77.3	75.6	87.8	79.7	65.3	83.6	83.5	82.9	76.9	84.4	89.1	78.9	81.6	78.4	
		Sangli															П	1	T	1	1											
87.	Miraj Market	69.1	76.8	76.8	76.9	78.8	78.1	69.8	70.5	71.2	69.9	67.6	63.6	69.5	70.0	68.4	66.6	65.9	62.9	70.8	71.3	69.8	72.0	71.6	67.4	93.3	94.6	92.4	92.1	91.5	90.7	
88.	Vishram Baug Chawk	66.7	68.4	70.4	74.3	75.0	76.9	69.7	69.9	70.7	68.7	64.2	61.7	66.5	70.9	70.1	67.7	64.5	61.0	70.9	70.1	70.1	70.9	67.8	65.4	73.7	74.4	75.4	71.3	70.6	66.6	
89.	Gandhi Putala (Ganpati Peth)	62.9	66.2	69.2	74.6	73.5	76.4	66.8	70.2	69.3	67.1	64.9	59.2	71.9	69.6	68.2	69.9	65.8	61.3	72.3	70.4	69.2	70.8	68.9	64.1	74.5	73.8	71.5	73.8	71.7	67.8	
		Mira-Bhyander															<u>I</u>	I		<u>I</u>												
90.	Bhakti Vedant Hospital, Tenkar pada	62.2	64.5	66.8	66.7	66.1	68.9	68.8	70.2	72.6	79.3	80.6	63.3	70.6	65.4	73.7	66.4	74.8	77.6	55.8	55.4	56.6	61.6	60.5	61.1	63.1	79.7	69.3	77.2	67.6	59.3	
91.	Golden police Chawki	66.7	69.3	72.5	73.7	69.3	71.0	69.9	69.8	69.0	70.5	70.6	72.7	70.9	73.4	73.8	73.0	73.0	75.9	74.5	65.1	67.0	70.1	72.7	64.0	72.9	62.8	70.5	62.7	80.2	78.8	
92.	Shivaji Chak Kashi meera	66.3	65.8	77.8	76.7	79.3	75.6	72.2	80.3	73.1	66.8	64.6	77.2	69.4	66.5	71.4	70.7	71.8	71.6	66.5	76.7	65.5	68.8	67.0	67.5	67.2	69.3	63.5	68.9	76.5	77.7	
		Vasai-Virar																														
93.	Range office, Satwali, Vasai East	69.7	75.5	74.9	79.1	75.3	73.3	76.3	78.9	61.6	64.3	65.0	62.7	74.5	72.7	71.2	73.4	73.4	77.2	63.3	61.2	70.2	77.2	76.3	76.7	71.6	73.7	75.9	71.5	78.7	74.5	
94.	Valiv phata, Vasai East	78.5	80.4	78.5	78.3	76.2	78.3	75.3	76.3	66.5	73.1	70.7	69.5	73.5	71.1	65.0	78.6	69.9	85.7	70.3	66.5	77.3	77.2	86.2	73.2	61.4	62.2	63.7	71.3	65.6	66.9	
95.	N.B. Estate, Virar West	65.2	77.6	77.2	75.1	73.6	69.5	68.5	78.5	73.1	79.2	68.3	66.2	78.3	71.1	64.9	63.5	79.4	78.5	80.3	79.8	72.3	69.3	72.3	68.2	80.7	76.2	81.6	79.6	78.5	74.9	
	That Troot														U	Ihası	naga	ir T												<u> </u>		
96.	Gaol Maidan	58.7	66.3	69.2	75.6	78.6	73.2	73.1	70.7	69.5	72.9	62.8	70.5	62.6	65.2	67.8	64.4	67.1	67.3	63.6	68.6	63.4	64.5	61.9	57.7	59.8	62.3	65.3	66.1	63.9	71.2	
97.	Doodh Naka, Ulhasnagr sector 5	64.6	70.3	74.8	65.8	72.2	70.8	70.6	75.4	79.7	76.3	83.5	78.8	76.5	70.4	70.8	69.9	76.4	77.2	65.0	60.9	61.4	61.1	68.9	69.6	71.4	70.9	72.1	69.6	72.9	71.2	
98.	CHM college	63.9	69.2	64.5	70.9	68.3	72.3	75.3	63.5	78.9	75.3	73.2	74.3	66.9	72.8	71.5	76.7	73.6	75.4	78.9	77.5	74.4	77.6	86.8	82.9	59.8	63.9	61.5	61.5	62.2	60.3	
			1		1	ı	ı	ı	П			1	1	В	hiwa	ndi-	Niza	mpu	ır	1	ı	1	П		П	1	ı	1	1			
99.	Dhamankar Naka	64.0	62.7	58.4	62.9	74.6	73.2	72.4	73.5	88.3	78.9	87.6	75.3	73.3	83.0	75.9	80.0	73.3	77.8	60.2	58.8	72.1	68.7	71.0	63.5	68.2	84.6	87.5	79.5	86.2	80.3	
100.	Indira Gandhi Memorial Hospital	63.6	59.2	69.1	63.2	71.2	65.7	69.5	72.9	62.8	70.5	88.7	74.3	71.1	76.4	75.6	74.2	80.0	83.4	63.6	65.0	66.4	60.6	66.7	65.2	61.8	56.8	63.0	56.5	59.7	59.3	
101.	Shelar Near Nadi naka	57.5	66.2	64.6	60.5	73.7	77.9	71.4	67.8	54.4	70.2	63.7	70.3	80.8	83.1	82.3	76.8	71.2	76.2	57.5	61.7	60.8	60.2	66.3	62.2	69.9	70.7	75.9	78.3	69.5	71.8	
							Ī								l	nand	-											1		<del></del>		
102.	Govt. Hospital  Gandhi Square	68.2 68.6	65.1 76.1	63.4 75.5	71.9 74.9	72.9 74.8	70.4 83.4	61.1 78.1	69.5 73.1	66.8 73.6	67.7 71.6	63.5 70.5	64.9 70.6	73.0 73.6	70.8 75.9	69.7 77.0	69.4 78.8	67.4 77.2	66.0 69.4	68.8 79.3	70.2 76.8	69.6 76.9	69.4 73.5	66.7 73.5	65.7 69.6	79.6 99.4	80.6 98.2	78.3 96.9	90.6 97.5	83.8 94.2	79.0 88.2	
103.	Jatpura Gate	69.2	74.6	76.6	75.7	79.1	77.2	78.2	78.9	73.5	74.4	74.4	67.5	74.4	78.4	78.1	80.5	71.6	68.2	77.5	78.9	88.5	73.4	73.4	66.4	91.5	90.9	90.1	89.3	86.2	77.8	
			l	<u> </u>	1	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	l		Nand	ded-	Wag	hala	<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1	<u> </u>		1	
105.	Ganesh Nagar, Municipal Corpartion,	73.5	76.1	82.9	88.5	90.1	84.2	68.9	70.8	73.4	71.6	69.2	67.7	71.6	73.2	72.5	69.4	67.7	65.9	73.5	74.6	74.9	73.9	69.4	67.5	70.3	77.3	80.1	79.5	74.2	72.0	
106.	Nanded Shivaji Nagar	70.2	68.6	73.5	78.1	84.3	86.4	69.1	70.1	71.3	72.9	66.5	64.4	70.2	72.1	71.6	70.4	68.3	66.4	71.9	75.6	73.8	71.6	70.1	68.3	75.5	84.2	83.4	81.2	78.4	74.1	
	-,																1															

Sr. No.	Location name (details)	5 <sup>th</sup>	Septe	embe	r <b>201</b> (	6 Mon	ıday	6 <sup>th</sup> :	Septe	mber	2016	Tues	day	9 <sup>th</sup> September 2016 Friday							10 <sup>th</sup> 5	Septe Satu	mber ırday	2016		15 <sup>th</sup> September 2016 Thursday					
		18:00 -	19:00 -	20:00	21:00 -	22:00	23:00	18:00 -	19:00 -	20:00	21:00 -	22:00	23:00	18:00	19:00 -	20:00	21:00 -	22:00	23:00	18:00 -	19:00 -	20:00 -	21:00 -	22:00 -	23:00	18:00 -	19:00 -	20:00	21:00 -	22:00	23:00
		19:00	20:00	21:00	22:00	23:00	00:00	19:00	20:00	21:00	22:00	23:00	00:00	19:00	20:00	21:00	22:00	23:00	00:00	19:00	20:00	21:00	22:00	23:00	00:00	19:00	20:00	21:00	22:00	23:00	00:00
107.	Shree Guru Govindsing Govt. Medical College & Hospital	60.6	63.7	65.9	69.0	62.5	64.3	70.8	68.2	68.7	67.1	66.4	65.9	69.6	70.0	68.3	66.1	64.8	63.6	70.6	71.7	71.4	69.8	68.1	65.9	65.7	70.4	77.9	75.1	72.8	61.5
			ı	ı		ı	Т		ı	Т	Ī	Т	Т	Т	Ah	med	lnag	ar		ı	ı	ı	ı	Ī	Т	1	ı	ı	ı		
108.	Kotala Chawk	74.0	79.2	82.4	79.4	81.4	75.0	82.3	84.5	84.0	79.0	81.8	77.3	78.8	80.3	77.3	80.3	67.8	72.3	78.8	79.8	79.0	77.5	71.3	69.8	98.9	101.4	102.5	103.0	100. 8	79.4
109.	Chitale Road	78.6	81.8	79.6	81.8	88.0	88.6	81.3	84.5	81.3	81.5	78.8	77.0	80.3	79.5	78.3	73.0	70.8	69.5	80.8	81.5	77.0	77.8	68.0	66.5	96.7	105.4	103. 6	101.6	101.1	80.7
110.	Old Bus Stand	81.2	81.2	79.4	77.4	80.4	84.0	84.5	78.3	84.0	82.0	82.0	77.0	79.0	77.5	78.3	79.0	67.8	70.3	79.3	77.3	78.8	75.0	67.8	66.8	98.8	102.8	102.9	103.4	98.4	79.4
																Dh	ule														
111.	Agrasen Chawk	64.5	67.5	70.8	73.0	69.3	68.3	58.3	64.5	70.5	60.0	63.3	58.3	64.5	67.6	70.6	73.5	67.0	61.1	69.5	64.5	72.8	80.5	64.3	66.5	69.5	72.5	73.5	85.5	87.5	69.5
112.	Fulwala Chawk	74.0	76.0	77.0	81.0	96.0	94.4	71.3	66.5	67.3	61.0	86.5	61.0	74.5	77.5	74.5	80.8	65.3	64.5	75.8	74.5	77.8	71.5	64.5	64.3	94.9	85.3	84.5	89.5	84.5	79.3
113.	Santoshi Mata Chawk	85.5	71.8	74.5	77.8	80.5	85.5	75.5	63.3	77.0	59.5	69.0	65.0	67.8	66.1	71.5	64.5	74.3	64.5	70.0	72.5	64.5	75.3	72.8	65.8	84.5	86.8	83.3	74.9	83.5	66.5
		Malegaon																													
114.	Mosampur	67.3	75.8	79.0	85.5	87.0	90.8	60.2	71.8	77.0	79.9	69.9	65.2	75.7	79.0	85.6	73.8	63.0	60.5	78.3	78.4	85.8	71.8	67.5	62.5	76.8	85.3	90.0	77.5	85.8	73.3
115.	Satana Naka	63.0	75.5	76.3	81.8	86.5	82.0	59.3	70.5	75.0	82.5	58.8	57.5	59.0	71.8	75.3	84.8	58.3	60.0	61.8	75.3	74.0	79.5	59.5	59.0	70.0	88.8	80.0	89.5	70.3	88.0
116.	Malegaon Camp	68.5	75.0	80.3	74.3	84.0	83.8	70.5	80.5	82.5	79.8	66.8	60.5	74.0	82.0	75.0	86.3	60.8	55.8	66.3	85.8	75.0	87.5	63.5	65.0	64.8	87.3	71.0	85.8	77.5	66.0
		Pimpri-Chinchwad																													
117.	Chaphekar Chawk, Chinchwad Gaon	74.0	74.6	82.0	83.3	86.2	84.9	76.4	79.6	80.9	85.3	77.2	70.4	74.6	75.8	76.4	75.9	73.6	72.4	76.1	79.9	81.4	83.0	80.2	75.2	80.6	86.8	89.6	91.9	98.2	98.0
118.	Shanti Nagar (Pimri)	60.8	62.4	68.2	74.2	74.8	73.6	75.0	74.0	74.1	76.9	69.5	64.5	71.8	77.3	79.7	83.6	80.9	69.3	74.8	76.5	76.1	77.5	73.1	69.3	92.9	97.1	100. 8	109.6	105.3	102.9
119.	Bosari Gaonthan	68.7	72.0	73.2	71.8	72.2	71.8	74.2	87.6	89.6	79.3	81.3	68.7	71.2	83.5	86.7	82.3	78.8	67.9	75.9	83.5	89.6	89.3	71.8	67.8	80.7	90.1	94.3	85.6	74.9	70.8
															I	Parb	hani	İ													
120.	Shivaji Chawk, Parbhani Shivaji Maharaj	68.5	74.6	77.8	80.2	86.1	79.1	74.6	75.9	77.1	74.5	69.3	66.7	72.6	74.8	75.1	71.3	69.5	67.1	73.8	74.2	75.6	73.1	70.9	68.3	75.2	80.4	87.2	89.5	82.1	76.6
121.	Putala, (near S.P. Office)	70.1	66.5	71.7	78.1	80.8	82.6	76.1	78.0	77.8	75.2	71.6	69.4	75.2	76.6	75.9	73.7	71.6	69.7	74.6	76.1	75.8	74.3	72.4	69.1	72.5	78.2	85.1	86.4	80.2	73.7
122.	Raigad Corner, Jintur road, Parbhani	59.6	64.1	69.2	72.9	67.1	75.0	71.8	73.2	70.5	68.4	66.2	63.7	72.9	73.6	72.3	69.4	67.2	64.8	71.9	73.6	74.2	71.1	69.1	67.3	70.3	73.5	78.5	82.6	78.4	69.3
		Latur														T	ı	1		Т	1	T	T	T							
123.	Ganjgolai	78.1	74.8	80.6	81.9	82.6	86.8	73.1	74.5	76.9	75.4	71.5	69.5	74.3	75.1	72.9	70.5	68.4	65.3	74.9	76.8	74.6	71.1	70.9	68.4	78.2	83.7	88.1	90.2	87.6	79.1
124.	Kesharaj High school, Sham nagar, Amba Jogai Road, Latur	72.7	78.1	69.1	79.0	83.4	87.1	72.1	73.5	69.4	68.1	66.5	64.3	71.5	72.7	69.2	67.3	65.1	62.8	72.9	74.4	73.7	70.1	68.4	66.8	72.5	74.2	80.1	83.7	78.1	71.5
125.	Aadarsh Colony, Ausa Road,	71.0	76.2	77.5	70.3	79.5	83.5	69.4	71.6	72.4	67.6	64.8	61.7	70.8	71.6	70.5	68.1	65.2	61.0	71.6	72.3	72.1	70.8	69.7	67.2	74.3	78.8	85.4	87.6	81.3	74.4
	Latur																														
100	College of Coll	00.0	7/ 5	no o	70.0	71.7	75.0	חריי	70.0	וופ	70.0	n//	nre	701	7/ 5	Ako		00.0	00.0	70.0	70.0	70.0	75.0	70 /	00.0	004	70.0	7//	70.5	חור	0/0
126. 127.	Civil line Chawk	60.9 67.8	74.8 75.1	72.0 72.5	70.9 77.9	71.7 80.3	75.0 78.5	75.7 86.5	78.3 83.1	71.1 79.3	72.3 80.8	64.1 80.8	65.9 67.5	77.1 81.6	74.0 82.5	71.8 82.9	76.7 84.3	67.3 85.7	68.3 80.5	78.8 83.4	76.9 80.1	73.8 82.9	75.0 82.1	70.4 80.5	68.6 72.0	80.1 102.5	79.6 98.5	74.4 88.8	70.5 84.5	71.5 73.5	64.6 71.6
	/ Ratanlal plot  City Kotawali						, u.u			, 0.0																1.02.0					
128.	Chawk near police station	70.6	75.6	76.0	76.7	85.4	82.6	80.0	82.1	79.1	82.9	79.0	71.6	80.8	84.4	80.1	83.6	78.7	76.8	82.2	82.4	82.0	84.2	81.5	77.5	91.1	91.5	90.4	95.8	94.2	79.9
							Π		l							Sola	pur			ı	l	l					l	ı	ı	T	
129.	Balives	53.2	60.4	63.9	66.5	70.6	71.2	68.6	73.8	76.0	78.4	68.6	64.3	71.0	78.0	82.5	81.1	74.9	59.7	65.8	74.1	81.4	79.8	70.8	57.7	80.6	81.6	84.4	81.9	83.8	83.5
130.	Ashok Chowk	53.5	57.4	58.3	61.3	63.3	62.7	72.9	73.9	75.3	79.6	70.9	58.1	72.0	79.9	80.5	78.2	71.7	63.1	65.4	79.0	81.4	80.0	71.7	58.7	80.8	81.8	81.7	85.2	83.2	83.3
131.	Hotgi and Vijapur road	56.1	55.4	59.9	61.7	65.0	68.3	76.7	77.0	75.4	77.6	74.7	61.2	70.7	73.1	81.9	82.2	73.1	62.0	64.5	73.6	79.2	81.0	68.2	54.3	72.5	81.4	83.8	85.2	85.0	83.4
132.	Saat Rastta Railway Station	60.7	67.5	67.9	68.1	74.7	72.9	73.5	79.6	80.4	79.7	77.3	68.7	64.1	74.5	80.4	81.5	71.1	56.8	69.1	78.3	81.7	81.1	71.8	60.3	80.7	84.1	83.3	85.8	84.4	83.5

# **ANNEXURE V**

**Annexure V -**  Map of all 26 Municipal Coorporation with respective location spotted

